



# UTTAR PRADESH POWER CORPORATION LTD.

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Subject	Technician Electrical

Section : Computer Knowledge - CCC Level of NIELIT

Q.1 DNS is which layer protocol in Internet architecture?

- Ans
- A. Network
  - B. Application
  - C. Transport
  - D. Data Link

Question ID : 630680440334

Option 1 ID : 6306801719008

Option 2 ID : 6306801719006

Option 3 ID : 6306801719007

Option 4 ID : 6306801719009

Status : **Not Attempted and Marked For Review**

Chosen Option : --

Q.2 Which of the following paragraph formatting options lets you specify the amount of space to leave between the left and the right page margins and the paragraph in MS-Word 365?

- Ans
- A. Spacing
  - B. Line spacing
  - C. Alignment
  - D. Indentation

Question ID : 630680440312

Option 1 ID : 6306801718918

Option 2 ID : 6306801718919

Option 3 ID : 6306801718921

Option 4 ID : 6306801718920

Status : **Answered**

Chosen Option : **D**

**Q.3** Which of the given options best describes the truthfulness of the following statements?

- (i) The Alternate (Alt) and Escape (Esc) keys belong to the "control keys" category.
- (ii) The character generated by the Spacebar key is also called white-space character.

- Ans**
- A. (i) True (ii) False
  - B. (i) True (ii) True
  - C. (i) False (ii) False
  - D. (i) False (ii) True

Question ID : **630680440298**  
Option 1 ID : **6306801718863**  
Option 2 ID : **6306801718862**  
Option 3 ID : **6306801718865**  
Option 4 ID : **6306801718864**  
Status : **Answered**  
Chosen Option : **B**

**Q.4** Web browsers allow to store the URL that you visit most frequently which helps you to go to web page directly by selecting from a list instead of typing the URL multiple times. What is this list referring to?

- Ans**
- A. Bookmarks
  - B. History
  - C. Cookies
  - D. Downloads

Question ID : **630680440332**  
Option 1 ID : **6306801719001**  
Option 2 ID : **6306801718999**  
Option 3 ID : **6306801719000**  
Option 4 ID : **6306801718998**  
Status : **Answered**  
Chosen Option : **A**

**Q.5** Which of the following unit of CPU is responsible for communicating with input/output devices for the transfer of data or results from storage?

- Ans**
- A. Memory unit
  - B. Logic unit
  - C. Control unit
  - D. Arithmetic unit

Question ID : **630680440297**  
Option 1 ID : **6306801718860**  
Option 2 ID : **6306801718858**  
Option 3 ID : **6306801718859**  
Option 4 ID : **6306801718861**  
Status : **Answered**  
Chosen Option : **C**

Q.6 Most blogs contain short, informal articles called \_\_\_\_\_.

- Ans
- A. blog columns
  - B. blog reels
  - C. blog posts
  - D. blog shots

Question ID : 630680440327  
Option 1 ID : 6306801718978  
Option 2 ID : 6306801718979  
Option 3 ID : 6306801718981  
Option 4 ID : 6306801718980  
Status : Answered  
Chosen Option : C

Q.7 Which of the following cell reference is used for the cell in column F and row 20 in MS-Excel 365?

- Ans
- A. 20F
  - B. F:F
  - C. 20:20
  - D. F20

Question ID : 630680440319  
Option 1 ID : 6306801718946  
Option 2 ID : 6306801718948  
Option 3 ID : 6306801718949  
Option 4 ID : 6306801718947  
Status : Answered  
Chosen Option : D

Q.8 Which of the following system software is the operational software installed on the computer motherboards that help the operating system to identify the Flash, ROM, EPROM, EEPROM, and memory chips?

- Ans
- A. Firmware
  - B. Device drivers
  - C. Programming language translators
  - D. Utility software

Question ID : 630680440300  
Option 1 ID : 6306801718870  
Option 2 ID : 6306801718873  
Option 3 ID : 6306801718872  
Option 4 ID : 6306801718871  
Status : Answered  
Chosen Option : A

**Q.9** In MS-PowerPoint 365, a \_\_\_\_\_ is a pre-formatted container on a slide for content (text, graphics, or video).

- Ans**
- A. Place holder
  - B. Auto layout
  - C. Text Box
  - D. Object Container

Question ID : **630680440324**  
Option 1 ID : **6306801718968**  
Option 2 ID : **6306801718969**  
Option 3 ID : **6306801718967**  
Option 4 ID : **6306801718966**  
Status : **Answered**  
Chosen Option : **A**

**Q.10** Which of the following sequence is correct to change a chart type of existing chart in MS-Excel 365?

- Ans**
- A. Format tab-> Change Chart Type
  - B. Chart Design tab-> Change Chart Type
  - C. Draw-> Change Chart Type
  - D. Page Layout->Change Chart Type

Question ID : **630680440318**  
Option 1 ID : **6306801718942**  
Option 2 ID : **6306801718944**  
Option 3 ID : **6306801718945**  
Option 4 ID : **6306801718943**  
Status : **Answered**  
Chosen Option : **B**

**Q.11** Which of the following is the extent to which the display will support the movement of the eye and head and It is the degree to which the device will contain the virtual world in front of your eyes with reference to Virtual Reality headset?

- Ans**
- A. Frame rate
  - B. Field Of View
  - C. Screen refresh rate
  - D. Latency

Question ID : **630680440289**  
Option 1 ID : **6306801718828**  
Option 2 ID : **6306801718829**  
Option 3 ID : **6306801718827**  
Option 4 ID : **6306801718826**  
Status : **Answered**  
Chosen Option : **B**

Q.12 With reference to online financial transactions what is the full form of AEPS?

- Ans
- A. Aadhaar Enabled Purchase System
  - B. Account Enabled Purchase System
  - C. Aadhaar Enabled Payment System
  - D. Account Enabled Payment System

Question ID : 630680440294  
Option 1 ID : 6306801718848  
Option 2 ID : 6306801718849  
Option 3 ID : 6306801718847  
Option 4 ID : 6306801718846  
Status : Answered  
Chosen Option : C

Q.13 Which of the following computers are used by large institutions and government agencies such as banks, railways, etc. to handle a very large amount of data?

- Ans
- A. Workstations
  - B. Minicomputers
  - C. Microcomputers
  - D. Mainframes

Question ID : 630680440295  
Option 1 ID : 6306801718850  
Option 2 ID : 6306801718853  
Option 3 ID : 6306801718852  
Option 4 ID : 6306801718851  
Status : Answered  
Chosen Option : B

Q.14 In MS-Word 365, short-cut key to open Print Preview window is \_\_\_\_\_.

- Ans
- A. Ctrl + F4
  - B. Ctrl + F2
  - C. Ctrl + F1
  - D. Ctrl + F3

Question ID : 630680440313  
Option 1 ID : 6306801718925  
Option 2 ID : 6306801718923  
Option 3 ID : 6306801718922  
Option 4 ID : 6306801718924  
Status : Answered  
Chosen Option : B

Q.15 Which of the following statements about a table in MS-Word is FALSE?

Ans  A.

A table may have odd number of rows and even number of columns

B.

A table may have even number of rows and odd number of columns

C.

Two consecutive horizontal or vertical cells of a table can be merged

D. Two diagonal cells of a table can be merged

Question ID : 630680440310

Option 1 ID : 6306801718910

Option 2 ID : 6306801718911

Option 3 ID : 6306801718912

Option 4 ID : 6306801718913

Status : Answered

Chosen Option : D

Q.16 Tapping or clicking on the smiley face icon along the bottom of the screen in Facebook messenger is used to

Ans  A. send a quick like

B. send photos

C. send stickers

D. Send videos

Question ID : 630680440330

Option 1 ID : 6306801718991

Option 2 ID : 6306801718990

Option 3 ID : 6306801718992

Option 4 ID : 6306801718993

Status : Answered

Chosen Option : C

Q.17 Which of the following is not Internet Service Provider (ISP) in India?

Ans  A. MTNL

B. HSBC

C. TATA Communications

D. BSNL

Question ID : 630680440331

Option 1 ID : 6306801718995

Option 2 ID : 6306801718997

Option 3 ID : 6306801718996

Option 4 ID : 6306801718994

Status : Answered

Chosen Option : B

**Q.18** In Windows 10 which of the following option of Display in Settings is to be selected to change the size of your text and apps?

- Ans**
- A. Display resolution
  - B. calibrate display color
  - C. Display orientation
  - D. Scale and Layout

Question ID : 630680440306

Option 1 ID : 6306801718894

Option 2 ID : 6306801718897

Option 3 ID : 6306801718896

Option 4 ID : 6306801718895

Status : **Not Attempted and Marked For Review**

Chosen Option : --

**Q.19** Which of the following type of files are not allowed to send as attachment by most of the e-mail service providers?

- Ans**
- A. .pdf
  - B. .exe
  - C. .doc
  - D. .jpg

Question ID : 630680440329

Option 1 ID : 6306801718988

Option 2 ID : 6306801718987

Option 3 ID : 6306801718986

Option 4 ID : 6306801718989

Status : **Answered**

Chosen Option : **B**

**Q.20** QR code is a registered trademark developed by which of the following company?

- Ans**
- A. IBM
  - B. Cyber Cloud Software
  - C. Denso Wave
  - D. Google

Question ID : 630680440291

Option 1 ID : 6306801718835

Option 2 ID : 6306801718837

Option 3 ID : 6306801718836

Option 4 ID : 6306801718834

Status : **Answered**

Chosen Option : **C**

**Q.21** A group of eight bits is called a \_\_\_\_\_ and is usually abbreviated as an uppercase letter \_\_\_\_\_.

- Ans**
- A. byte, b
  - B. nibble, B
  - C. byte, B
  - D. nibble, b

Question ID : **630680440301**  
Option 1 ID : **6306801718874**  
Option 2 ID : **6306801718875**  
Option 3 ID : **6306801718876**  
Option 4 ID : **6306801718877**  
Status : **Answered**  
Chosen Option : **C**

**Q.22** Which of the following is not an essential detail required for remitting funds through NEFT system?

- Ans**
- A. Beneficiary's Account No.
  - B. Beneficiary's Name
  - C. Beneficiary's Address
  - D. Beneficiary's Branch Name

Question ID : **630680440292**  
Option 1 ID : **6306801718841**  
Option 2 ID : **6306801718839**  
Option 3 ID : **6306801718838**  
Option 4 ID : **6306801718840**  
Status : **Answered**  
Chosen Option : **C**

**Q.23** Which of the following categories of text alignment aligns texts to both left and right margins?

- Ans**
- A. Justify
  - B. Left
  - C. Right
  - D. Centre

Question ID : **630680440308**  
Option 1 ID : **6306801718905**  
Option 2 ID : **6306801718902**  
Option 3 ID : **6306801718903**  
Option 4 ID : **6306801718904**  
Status : **Answered**  
Chosen Option : **A**



**Q.24** Which of the following is a type of multimedia file in any operating system?

- Ans
- A. lib
  - B. mpeg
  - C. exe
  - D. obj

Question ID : **630680440307**  
Option 1 ID : **6306801718899**  
Option 2 ID : **6306801718898**  
Option 3 ID : **6306801718900**  
Option 4 ID : **6306801718901**  
Status : **Answered**  
Chosen Option : **B**

**Q.25** To delete multiple slides in MS-PowerPoint 365, hold \_\_\_\_\_ and select the slides you want then right-click and select Delete Slide.

- Ans
- A. Alt
  - B. Tab
  - C. Ctrl
  - D. Enter

Question ID : **630680440321**  
Option 1 ID : **6306801718954**  
Option 2 ID : **6306801718957**  
Option 3 ID : **6306801718956**  
Option 4 ID : **6306801718955**  
Status : **Answered**  
Chosen Option : **C**

**Q.26** Which of the following is the delivery of different services through the Internet, including data storage, servers, databases, networking, and software?

- Ans
- A. Database Management Systems
  - B. Artificial Intelligence
  - C. Cloud computing
  - D. Computer networking

Question ID : **630680440288**  
Option 1 ID : **6306801718823**  
Option 2 ID : **6306801718822**  
Option 3 ID : **6306801718824**  
Option 4 ID : **6306801718825**  
Status : **Answered**  
Chosen Option : **C**

**Q.27** For sorting MS-Excel 365 data, which of the following is NOT a valid option for "Sort on" field in the "Sort" window?

- Ans**  A. Cell Width  
 B. Values  
 C. Cell Colour  
 D. Font Colour

Question ID : 630680440314  
Option 1 ID : 6306801718929  
Option 2 ID : 6306801718926  
Option 3 ID : 6306801718927  
Option 4 ID : 6306801718928  
Status : Answered  
Chosen Option : A

**Q.28** CPU uses a fastest memory to store data retrieved from RAM during a program execution. What is the name of that memory?

- Ans**  A. Arithmetic Unit  
 B. Associative memory  
 C. Cache memory  
 D. Logic Unit

Question ID : 630680440299  
Option 1 ID : 6306801718869  
Option 2 ID : 6306801718867  
Option 3 ID : 6306801718868  
Option 4 ID : 6306801718866  
Status : Answered  
Chosen Option : C

**Q.29** Which of the following function in MS-Excel 365 is used to return the number of days between two dates?

- Ans**  A. FIND  
 B. DATE  
 C. DAYS  
 D. DAY

Question ID : 630680440316  
Option 1 ID : 6306801718934  
Option 2 ID : 6306801718935  
Option 3 ID : 6306801718936  
Option 4 ID : 6306801718937  
Status : Answered  
Chosen Option : C

**Q.30** Which of the following operation is not possible with reference to inserting rows and columns in MS-Word 365 table?

- Ans**
- A. Insert Left
  - B. Insert Below
  - C. Insert Right
  - D. Insert Across

Question ID : 630680440311  
Option 1 ID : 6306801718915  
Option 2 ID : 6306801718914  
Option 3 ID : 6306801718916  
Option 4 ID : 6306801718917  
Status : Answered  
Chosen Option : D

**Q.31** What is the keyboard shortcut to make a duplicate of the selected slide in MS-PowerPoint 365?

- Ans**
- A. Ctrl + M
  - B. Ctrl + D
  - C. Ctrl + F1
  - D. Ctrl + X

Question ID : 630680440322  
Option 1 ID : 6306801718960  
Option 2 ID : 6306801718959  
Option 3 ID : 6306801718961  
Option 4 ID : 6306801718958  
Status : Answered  
Chosen Option : B

**Q.32** Which of the following is the default "View" option of slides in MS-PowerPoint 365?

- Ans**
- A. Reading
  - B. Outline
  - C. Normal
  - D. Slide Sorter

Question ID : 630680440323  
Option 1 ID : 6306801718965  
Option 2 ID : 6306801718964  
Option 3 ID : 6306801718962  
Option 4 ID : 6306801718963  
Status : Answered  
Chosen Option : D

**Q.33** In which of the following step of Lifecycle Phases of Big Data Analytics, data with the same fields across different datasets are integrated?

- Ans**
- A. Data extraction
  - B. Data aggregation
  - C. Business case evaluation
  - D. Data filtering

Question ID : 630680440287  
Option 1 ID : 6306801718820  
Option 2 ID : 6306801718819  
Option 3 ID : 6306801718818  
Option 4 ID : 6306801718821  
Status : Answered  
Chosen Option : B

**Q.34** Which of the following blockchain networks are permission less and allow everyone to join them?

- Ans**
- A. Consortium
  - B. Private
  - C. Public
  - D. Retail

Question ID : 630680440290  
Option 1 ID : 6306801718831  
Option 2 ID : 6306801718832  
Option 3 ID : 6306801718833  
Option 4 ID : 6306801718830  
Status : Answered  
Chosen Option : C

**Q.35** In MS-Word 365, clicking simultaneously three times on a paragraph will select \_\_\_\_\_.

- Ans**
- A. The first word of the paragraph
  - B. The whole paragraph
  - C. The first sentence of the paragraph
  - D. The last sentence of the paragraph

Question ID : 630680440309  
Option 1 ID : 6306801718907  
Option 2 ID : 6306801718906  
Option 3 ID : 6306801718908  
Option 4 ID : 6306801718909  
Status : Answered  
Chosen Option : B

**Q.36** Which of the following type of files in Linux Contain data of various content types such as text, script, image, videos, etc.,?

- Ans**
- A. Regular
  - B. Socket
  - C. Directory
  - D. Block

Question ID : **630680440304**

Option 1 ID : **6306801718886**

Option 2 ID : **6306801718889**

Option 3 ID : **6306801718887**

Option 4 ID : **6306801718888**

Status : **Not Attempted and Marked For Review**

Chosen Option : --

**Q.37** Which of the following is a computer-based application for the exchange of messages between users?

- Ans**
- A. e-aadhar
  - B. e-sharm
  - C. e-kyc
  - D. e-mail

Question ID : **630680440326**

Option 1 ID : **6306801718977**

Option 2 ID : **6306801718974**

Option 3 ID : **6306801718976**

Option 4 ID : **6306801718975**

Status : **Answered**

Chosen Option : **D**

**Q.38** In Windows, to run a program or application, one can double-click the \_\_\_\_\_.

- Ans**
- A. system file
  - B. executable file
  - C. batch file
  - D. object file

Question ID : **630680440305**

Option 1 ID : **6306801718893**

Option 2 ID : **6306801718891**

Option 3 ID : **6306801718890**

Option 4 ID : **6306801718892**

Status : **Answered**

Chosen Option : **B**

**Q.39** In MS-PowerPoint 365 Normal view displays slide thumbnails on the \_\_\_\_\_ side of screen.

- Ans**
- A. bottom
  - B. left
  - C. right
  - D. top

Question ID : **630680440320**  
Option 1 ID : **6306801718953**  
Option 2 ID : **6306801718950**  
Option 3 ID : **6306801718951**  
Option 4 ID : **6306801718952**  
Status : **Answered**  
Chosen Option : **B**

**Q.40** Which of the following option can be used to insert a logo at same location on every slide in MS-PowerPoint 365?

- Ans**
- A. Show master
  - B. Handout master
  - C. Slide master
  - D. Notes master

Question ID : **630680440325**  
Option 1 ID : **6306801718973**  
Option 2 ID : **6306801718972**  
Option 3 ID : **6306801718971**  
Option 4 ID : **6306801718970**  
Status : **Answered**  
Chosen Option : **C**

**Q.41** Which of the following is an area of mailbox in e-mail where the messages which are in process of sending or which are failed to send are stored in general?

- Ans**
- A. Sent mail
  - B. Spam
  - C. Outbox
  - D. Inbox

Question ID : **630680440328**  
Option 1 ID : **6306801718984**  
Option 2 ID : **6306801718985**  
Option 3 ID : **6306801718982**  
Option 4 ID : **6306801718983**  
Status : **Answered**  
Chosen Option : **C**

Q.42 In MS-Excel 365, when a formula is entered into a cell, it also appears in the \_\_\_\_\_.

- Ans
- A. Status bar
  - B. Name box
  - C. Menu bar
  - D. Formula bar

Question ID : 630680440317  
Option 1 ID : 6306801718940  
Option 2 ID : 6306801718939  
Option 3 ID : 6306801718941  
Option 4 ID : 6306801718938  
Status : Answered  
Chosen Option : D

Q.43 Which of the following is an example of digital wallet?

- Ans
- A. Netflix
  - B. Mint
  - C. PayPal
  - D. flipkart

Question ID : 630680440293  
Option 1 ID : 6306801718845  
Option 2 ID : 6306801718843  
Option 3 ID : 6306801718842  
Option 4 ID : 6306801718844  
Status : Answered  
Chosen Option : C

Q.44 Which of the following provides options to change date and time in Windows OS?

- Ans
- A. System restore
  - B. My computer
  - C. Recycle bin
  - D. Control panel

Question ID : 630680440303  
Option 1 ID : 6306801718884  
Option 2 ID : 6306801718883  
Option 3 ID : 6306801718882  
Option 4 ID : 6306801718885  
Status : Not Attempted and Marked For Review  
Chosen Option : --

**Q.45** What is the maximum size of row height in MS-Excel 365 based on a point scale?

- Ans**
- A. 8.43
  - B. 409
  - C. 255
  - D. 15

Question ID : **630680440315**

Option 1 ID : **6306801718930**

Option 2 ID : **6306801718933**

Option 3 ID : **6306801718932**

Option 4 ID : **6306801718931**

Status : **Not Attempted and  
Marked For Review**

Chosen Option : --

**Q.46** Graphical pictures representing applications, files, and other parts of Windows Operating System are called \_\_\_\_\_.

- Ans**
- A. Programs
  - B. Callouts
  - C. WordArt
  - D. Icons

Question ID : **630680440302**

Option 1 ID : **6306801718880**

Option 2 ID : **6306801718878**

Option 3 ID : **6306801718879**

Option 4 ID : **6306801718881**

Status : **Answered**

Chosen Option : **D**

**Q.47** Which of the following is NOT an output unit of the computer system?

- Ans**
- A. Microphone
  - B. Liquid Crystal Display
  - C. Printers
  - D. Monitor

Question ID : **630680440296**

Option 1 ID : **6306801718857**

Option 2 ID : **6306801718855**

Option 3 ID : **6306801718856**

Option 4 ID : **6306801718854**

Status : **Answered**

Chosen Option : **A**



**Q.48** Which of following refers to the process of improving the site's visibility when people search for products or services related to business in Google, Bing, and other search engines?

- Ans**
- A. Ant Colony Optimization
  - B. Search Engine Optimization
  - C. Swarm Optimization
  - D. Linear Optimization

Question ID : **630680440333**  
Option 1 ID : **6306801719002**  
Option 2 ID : **6306801719004**  
Option 3 ID : **6306801719003**  
Option 4 ID : **6306801719005**  
Status : **Not Answered**  
Chosen Option : --

**Q.49** Which of the following is a networking device typically used to interconnect LANs to form a wide area network (WAN) and as such is referred to as a WAN device?

- Ans**
- A. switch
  - B. Router
  - C. Hub
  - D. Repeater

Question ID : **630680440335**  
Option 1 ID : **6306801719013**  
Option 2 ID : **6306801719010**  
Option 3 ID : **6306801719012**  
Option 4 ID : **6306801719011**  
Status : **Answered**  
Chosen Option : **B**

**Q.50** Which of the following collect a variety of information from the environment, which is converted into digital data with reference to Internet of Things?

- Ans**
- A. Bridges
  - B. Sensors
  - C. Actuators
  - D. Cables

Question ID : **630680440286**  
Option 1 ID : **6306801718817**  
Option 2 ID : **6306801718814**  
Option 3 ID : **6306801718815**  
Option 4 ID : **6306801718816**  
Status : **Answered**  
Chosen Option : **B**

Section : **General Study & Logical Reasoning**

Q.1 Mundra Port is now managed by which of the following companies?

- Ans  A. GMR Group  
 B. TATA Sons  
 C. Reliance Group  
 D. Adani Group

Question ID : 630680440341  
Option 1 ID : 6306801719036  
Option 2 ID : 6306801719037  
Option 3 ID : 6306801719034  
Option 4 ID : 6306801719035  
Status : Answered  
Chosen Option : D

Q.2 Four letter-cluster pairs have been given, out of which three are alike in some manner and one is different. Select the one that is different.

- Ans  A. BIRD-DKTF  
 B. FISH-HKUJ  
 C. BARN-DCTP  
 D. GUNS-IWPV

Question ID : 630680440352  
Option 1 ID : 6306801719081  
Option 2 ID : 6306801719078  
Option 3 ID : 6306801719079  
Option 4 ID : 6306801719080  
Status : Answered  
Chosen Option : D

Q.3 Select the number from among the given options that can replace the question mark (?) in the following series.

5, 15, 60, 300, ?

- Ans  A. 1500  
 B. 1800  
 C. 1200  
 D. 2100

Question ID : 630680440353  
Option 1 ID : 6306801719083  
Option 2 ID : 6306801719082  
Option 3 ID : 6306801719084  
Option 4 ID : 6306801719085  
Status : Answered  
Chosen Option : B

Q.4 In which of the following countries did the G20 summit (2022) take place?

- Ans
- A. Australia
  - B. Indonesia
  - C. Malaysia
  - D. South Africa

Question ID : 630680440336  
Option 1 ID : 6306801719016  
Option 2 ID : 6306801719014  
Option 3 ID : 6306801719015  
Option 4 ID : 6306801719017  
Status : Answered  
Chosen Option : B

Q.5 In which of the following countries is the Asian Development Bank headquarters located?

- Ans
- A. Russia
  - B. Philippines
  - C. Thailand
  - D. Indonesia

Question ID : 630680440339  
Option 1 ID : 6306801719028  
Option 2 ID : 6306801719027  
Option 3 ID : 6306801719029  
Option 4 ID : 6306801719026  
Status : Answered  
Chosen Option : B

Q.6 In a certain code language, MONKEY is coded as 13151411525. How will RABBIT be coded in that language?

- Ans
- A. 18123920
  - B. 18122920
  - C. 19122920
  - D. 18132920

Question ID : 630680440347  
Option 1 ID : 6306801719060  
Option 2 ID : 6306801719061  
Option 3 ID : 6306801719058  
Option 4 ID : 6306801719059  
Status : Answered  
Chosen Option : B

**Q.7** In a certain code language, SPARROW is coded as TQBSSPX. How will CARAVAN be coded in that language?

- Ans**
- A. DBSBWBO
  - B. DBSBVBO
  - C. DBTBWBO
  - D. DBSBUBO

Question ID : 630680440348  
Option 1 ID : 6306801719062  
Option 2 ID : 6306801719064  
Option 3 ID : 6306801719063  
Option 4 ID : 6306801719065  
Status : Answered  
Chosen Option : A

**Q.8** As of November 2022, the last election of the Indian Olympic Association was held in which of the following years?

- Ans**
- A. 2017
  - B. 2019
  - C. 2018
  - D. 2020

Question ID : 630680440343  
Option 1 ID : 6306801719042  
Option 2 ID : 6306801719044  
Option 3 ID : 6306801719043  
Option 4 ID : 6306801719045  
Status : Not Attempted and Marked For Review  
Chosen Option : --

**Q.9** Which of the following novels won the 2022 Pulitzer Prize in the General Nonfiction category?

- Ans**
- A. The Invisible Kingdom: Reimagining Chronic Illness
  - B. The School for Good Mothers
  - C. Invisible Child: Poverty, Survival & Hope in an American City
  - D. Young Mungo

Question ID : 630680440337  
Option 1 ID : 6306801719018  
Option 2 ID : 6306801719019  
Option 3 ID : 6306801719020  
Option 4 ID : 6306801719021  
Status : Answered  
Chosen Option : C

**Q.10** Which two numbers should be interchanged to make the following equation correct?

$$120 + 60 - 140 + 20 \times 45 = 2566$$

- Ans**
- A. 45 and 60
  - B. 60 and 20
  - C. 120 and 140
  - D. 120 and 20

Question ID : **630680440355**  
Option 1 ID : **6306801719093**  
Option 2 ID : **6306801719091**  
Option 3 ID : **6306801719090**  
Option 4 ID : **6306801719092**  
Status : **Answered**  
Chosen Option : **B**

**Q.11** Select the number from among the given options that can replace the question mark (?) in the following series.

45, 181, 321, 465, ?

- Ans**
- A. 613
  - B. 593
  - C. 597
  - D. 587

Question ID : **630680440354**  
Option 1 ID : **6306801719088**  
Option 2 ID : **6306801719086**  
Option 3 ID : **6306801719089**  
Option 4 ID : **6306801719087**  
Status : **Answered**  
Chosen Option : **A**

**Q.12** Guru Vempati Chinna Satyam is mainly known for which of the following dances?

- Ans**
- A. Kuchipudi
  - B. Manipuri
  - C. Kathakali
  - D. Odissi

Question ID : **630680440338**  
Option 1 ID : **6306801719023**  
Option 2 ID : **6306801719025**  
Option 3 ID : **6306801719022**  
Option 4 ID : **6306801719024**  
Status : **Answered**  
Chosen Option : **A**

**Q.13** Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

DEH, HZB, LUV, PPP, ?

- Ans**  A. TKJ  
 B. TKI  
 C. TIJ  
 D. TLJ

Question ID : 630680440346  
Option 1 ID : 6306801719057  
Option 2 ID : 6306801719056  
Option 3 ID : 6306801719054  
Option 4 ID : 6306801719055  
Status : Answered  
Chosen Option : A

**Q.14** Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different.

- Ans**  A. OL  
 B. IS  
 C. AZ  
 D. EV

Question ID : 630680440351  
Option 1 ID : 6306801719075  
Option 2 ID : 6306801719077  
Option 3 ID : 6306801719074  
Option 4 ID : 6306801719076  
Status : Answered  
Chosen Option : B

**Q.15** Select the option that is related to the third term in the same way as the second term is related to the first.

WHALE : 2381125 :: MOUSE : ?

- Ans**  A. 131621195  
 B. 131521195  
 C. 131522195  
 D. 141521195

Question ID : 630680440350  
Option 1 ID : 6306801719071  
Option 2 ID : 6306801719073  
Option 3 ID : 6306801719070  
Option 4 ID : 6306801719072  
Status : Answered  
Chosen Option : B

**Q.16** Which of the following Articles of the Indian Constitution deals with the Prohibition of discrimination on grounds of religion, race, caste, sex or place of birth?

- Ans**  A. Article 15  
 B. Article 14  
 C. Article 17  
 D. Article 16

Question ID : 630680440344  
Option 1 ID : 6306801719047  
Option 2 ID : 6306801719046  
Option 3 ID : 6306801719049  
Option 4 ID : 6306801719048  
Status : Answered  
Chosen Option : A

**Q.17** Pointing to a photograph, a man Rahul said, "He is the son of the only daughter of the father of my brother sister." How is Rahul related to the man in the photograph?

- Ans**  A. Brother of the man's father  
 B. Brother of the man's mother  
 C. Son of the man's mother  
 D. Husband of the man's mother

Question ID : 630680440349  
Option 1 ID : 6306801719069  
Option 2 ID : 6306801719068  
Option 3 ID : 6306801719066  
Option 4 ID : 6306801719067  
Status : Answered  
Chosen Option : D

**Q.18** The collegium to appoint Supreme Court judges consists of the Chief Justice of India and \_\_\_\_\_ senior judges of the Supreme Court.

- Ans**  A. seven  
 B. four  
 C. six  
 D. five

Question ID : 630680440345  
Option 1 ID : 6306801719053  
Option 2 ID : 6306801719050  
Option 3 ID : 6306801719052  
Option 4 ID : 6306801719051  
Status : Not Attempted and Marked For Review  
Chosen Option : --

Q.19 Kakrapar Atomic Power Station is located in \_\_\_\_\_.

- Ans  A. Gujarat  
 B. Kerala  
 C. Karnataka  
 D. Madhya Pradesh

Question ID : 630680440340  
 Option 1 ID : 6306801719031  
 Option 2 ID : 6306801719030  
 Option 3 ID : 6306801719032  
 Option 4 ID : 6306801719033  
 Status : Answered  
 Chosen Option : A

Q.20 Who was the first recipient of the Dronacharya Award?

- Ans  A. Gurcharan Singh  
 B. Balachandra Bhaskar Bhagwat  
 C. Guru Hanuman  
 D. Pushpendra Kumar Garg

Question ID : 630680440342  
 Option 1 ID : 6306801719040  
 Option 2 ID : 6306801719038  
 Option 3 ID : 6306801719039  
 Option 4 ID : 6306801719041  
 Status : Answered  
 Chosen Option : B

Section : General Hindi

Q.1 निम्न में से किस वाक्य में कारक चिह्न का शुद्ध प्रयोग हुआ है?

- Ans  A. अच्छे अंकों के द्वारा राहुल को सम्मान दिलाया।  
 B. अच्छे अंकों ने राहुल को सम्मान दिलाया।  
 C. अच्छे अंकों ने राहुल का सम्मान दिलाया।  
 D. अच्छे अंकों से राहुल को सम्मान दिलाया।

Question ID : 630680440360  
 Option 1 ID : 6306801719111  
 Option 2 ID : 6306801719113  
 Option 3 ID : 6306801719112  
 Option 4 ID : 6306801719110  
 Status : Not Attempted and Marked For Review  
 Chosen Option : --



Q.2 वाक्य विन्यास की दृष्टि से शुद्ध वाक्य का चयन कीजिए:

- Ans
- A. और इसलिए वह परीक्षा में न बैठ सका उसका दुर्भाग्य था।
  - B. उसका दुर्भाग्य था वह इसलिए और परीक्षा में न बैठ सका।
  - C. परीक्षा में न बैठ सका और इसलिए वह उसका दुर्भाग्य था।
  - D. उसका दुर्भाग्य था और इसलिए वह परीक्षा में बैठ न सका।

Question ID : 630680440356  
 Option 1 ID : 6306801719094  
 Option 2 ID : 6306801719097  
 Option 3 ID : 6306801719096  
 Option 4 ID : 6306801719095  
 Status : Answered  
 Chosen Option : D

Q.3 सही मुहावरा चुनें:

- Ans
- A. पैरों तले उँगली दबाना
  - B. दाँतों तले उँगली दबाना
  - C. होठों तले उँगली दबाना
  - D. दरवाजे तले उँगली दबाना

Question ID : 630680440364  
 Option 1 ID : 6306801719128  
 Option 2 ID : 6306801719126  
 Option 3 ID : 6306801719127  
 Option 4 ID : 6306801719129  
 Status : Answered  
 Chosen Option : B

Q.4 प्रेरणार्थक क्रिया की दृष्टि से कौन-सा वाक्य अशुद्ध है?

- Ans
- A. बाज़ार से आकर रमा ने खाना बनाया।
  - B. ज़मींदार ने हलवाहों से खेत जुतवाया।
  - C. मालिक नौकर से काम करवाता है।
  - D. राम ने एक सुन्दर महल बनवाया।

Question ID : 630680440361  
 Option 1 ID : 6306801719115  
 Option 2 ID : 6306801719116  
 Option 3 ID : 6306801719114  
 Option 4 ID : 6306801719117  
 Status : Not Attempted and Marked For Review  
 Chosen Option : --

Q.5 निम्न में से कौन-सा वाक्य सामान्य वर्तमान काल की दृष्टि से उचित वाक्य है?

Ans  A.

इतनी ठंड में आप बाहर क्यों आए? मैं अभी आग ले आऊंगा।

B.

इतनी ठंड में आप बाहर क्यों आए? मैं अभी आग ला रहा हूँ।

C.

इतनी ठंड में आप बाहर क्यों आए? मैं अभी आग लाता हूँ।

D.

इतनी ठंड में आप बाहर क्यों आए? मैं अभी आग ला चुका हूँ।

Question ID : 630680440359

Option 1 ID : 6306801719108

Option 2 ID : 6306801719107

Option 3 ID : 6306801719106

Option 4 ID : 6306801719109

Status : **Not Attempted and  
Marked For Review**

Chosen Option : --

Q.6 निम्न में से कौन-सा वाक्य संदिग्धभूत काल की दृष्टि से उचित वाक्य है?

Ans  A.

मैं घर से दूर हूँ पता नहीं वहाँ कैसे दीवाली मनायी जाएगी।

B.

मैं घर से दूर हूँ पता नहीं वहाँ कैसे दीवाली मनायी जा रही है।

C.

मैं घर से दूर हूँ पता नहीं वहाँ कैसे दीवाली मनायी जा रही होगी।

D.

मैं घर से दूर हूँ पता नहीं वहाँ कैसे दीवाली मनायी जा चुकी थी।

Question ID : 630680440358

Option 1 ID : 6306801719103

Option 2 ID : 6306801719102

Option 3 ID : 6306801719104

Option 4 ID : 6306801719105

Status : **Not Attempted and  
Marked For Review**

Chosen Option : --

Q.7 निम्न में से किस वाक्य में विशेषण शब्द का उचित प्रयोग हुआ है?

Ans  A.

जिन घरों के लोग धनी होते हैं वहाँ सुख, शांति और समृद्धि होती है।

B.

जिन घरों के लोग चतुर होते हैं वहाँ सुख, शांति और समृद्धि होती है।

C.

जिन घरों के लोग अहंकारी होते हैं वहाँ सुख, शांति और समृद्धि होती है।

D.

जिन घरों के लोग विनम्र होते हैं वहाँ सुख, शांति और समृद्धि होती है।

Question ID : 630680440362

Option 1 ID : 6306801719119

Option 2 ID : 6306801719121

Option 3 ID : 6306801719120

Option 4 ID : 6306801719118

Status : **Not Attempted and  
Marked For Review**

Chosen Option : --

Q.8 निम्न में से 'धनुर्धर' का पर्याय है:

Ans  A. धनी

B. पार्थ

C. धात्री

D. धन्वी

Question ID : 630680440365

Option 1 ID : 6306801719132

Option 2 ID : 6306801719130

Option 3 ID : 6306801719131

Option 4 ID : 6306801719133

Status : **Not Attempted and  
Marked For Review**

Chosen Option : --

Q.9 वाक्य विन्यास की दृष्टि से शुद्ध वाक्य का चयन कीजिए:

Ans  A.

इस समय तुम्हारे पड़ोसी तुम्हारी सहायता करने वाले एक मात्र व्यक्ति हैं।

B.

तुम्हारी सहायता करने वाले एक मात्र व्यक्ति हैं इस समय तुम्हारे पड़ोसी।

C.

सहायता करने वाले तुम्हारी एक मात्र व्यक्ति हैं पड़ोसी तुम्हारे इस समय।

D.

इस समय तुम्हारे पड़ोसी सहायता करने वाले एक मात्र व्यक्ति हैं तुम्हारी।

Question ID : 630680440357

Option 1 ID : 6306801719101

Option 2 ID : 6306801719098

Option 3 ID : 6306801719100

Option 4 ID : 6306801719099

Status : Not Attempted and  
Marked For Review

Chosen Option : --

Q.10 'तालू से जीभ न लगना' मुहावरे का अर्थ है:

Ans  A. बहुत प्यास लगना

B. बराबर बोलते रहना

C. चुप रह जाना

D. बुरे दिन आना

Question ID : 630680440363

Option 1 ID : 6306801719125

Option 2 ID : 6306801719123

Option 3 ID : 6306801719122

Option 4 ID : 6306801719124

Status : Not Attempted and  
Marked For Review

Chosen Option : --

## Comprehension:

प्रश्न के उत्तर दिए गए गद्यांश के आधार पर दीजिए।

जिन कर्मों में किसी प्रकार का कष्ट या हानि सहने का साहस अपेक्षित होता है, उन सबके प्रति उत्कंठापूर्ण आनंद उत्साह के अंतर्गत लिया जाता है। कष्ट या हानि के भेद के अनुसार उत्साह के भी भेद हो जाते हैं। साहित्य मीमांसकों ने इसी दृष्टि से युद्धवीर, दानवीर, दयावीर इत्यादि भेद किये हैं। सबसे प्राचीन और प्रधान युद्ध वीरता है, जिसमें आघात, पीड़ा क्या मृत्यु तक की परवाह नहीं रहती। केवल कष्ट या पीड़ा सहन करने के साहस में ही उत्साह का स्वरूप स्फुरित नहीं होता। उसके साथ आनंदपूर्ण प्रयत्न या उसकी उत्कंठा का योग चाहिए। सारांश यह है कि उसकी उत्कंठा में ही उत्साह का दर्शन होता है; केवल कष्ट सहने के निश्चेष्ट यान में नहीं। दानवीर में अर्थत्याग का साहस अर्थात् उसके कारण होने वाले कष्ट को सहने की क्षमता अंतर्निहित रहती है। दानवीरता तभी कही जाएगी, जब दान के कारण दानी को अपने जीवन निर्वाह में किसी प्रकार कष्ट या कठिनता दिखाई देगी। किंतु जब तक दान देने में पूर्ण तत्परता और आनंद के चिह्न न दिखाई पड़ेंगे तब तक उत्साह का स्वरूप न खड़ा होगा। संसार में और भी विकट काम होते हैं, जिनमें घोर शारीरिक कष्ट सहना पड़ता है जैसे अनुसंधान के लिए तुषार-मंडित, अन्नभेदी, अगम्य पर्वतों की चढ़ाई, ध्रुव देश के सहारा के रेगिस्तान का सफर, क्रूर बर्बर जातियों के बीच अज्ञात घोर जंगलों में प्रवेश इत्यादि भी पूरी वीरता और पराक्रम के कर्म हैं। मनुष्य शारीरिक कष्ट से नहीं किंतु मानसिक क्लेश की संभावना से बहुत-से कर्मों की ओर प्रवृत्त होने का साहस नहीं करता। जिन बातों से समाज के बीच उपहास, निंदा, अपमान इत्यादि का भय रहता है, उन्हें अच्छा एवं कल्याणकारी जानकर भी उनसे दूर रहते हैं। कुछ हानि देने वाली प्रथाओं का अनुसरण लोग केवल इसलिए करते चलते हैं कि उनके त्याग से वे बुरे कहे जाएँगे, उनका आदर-सम्मान घट जाएगा।

SubQuestion No : 11

Q.11 दानवीरता में उत्साह का संचरण कब होगा?

Ans  A. शारीरिक कष्ट सहने से।

- ✓ B. दान देने में पूर्ण तत्परता और आनंद आने से।
- ✗ C. जीवन निर्वाह में कष्ट होने से।
- ✗ D. आर्थिक हानि सहने से।

Question ID : 630680440370

Option 1 ID : 6306801719146

Option 2 ID : 6306801719149

Option 3 ID : 6306801719148

Option 4 ID : 6306801719147

Status : **Not Attempted and  
Marked For Review**

Chosen Option : --

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## Comprehension:

प्रश्न के उत्तर दिए गए गद्यांश के आधार पर दीजिए।

जिन कर्मों में किसी प्रकार का कष्ट या हानि सहने का साहस अपेक्षित होता है, उन सबके प्रति उत्कंठापूर्ण आनंद उत्साह के अंतर्गत लिया जाता है। कष्ट या हानि के भेद के अनुसार उत्साह के भी भेद हो जाते हैं। साहित्य मीमांसकों ने इसी दृष्टि से युद्धवीर, दानवीर, दयावीर इत्यादि भेद किये हैं। सबसे प्राचीन और प्रधान युद्ध वीरता है, जिसमें आघात, पीड़ा क्या मृत्यु तक की परवाह नहीं रहती। केवल कष्ट या पीड़ा सहन करने के साहस में ही उत्साह का स्वरूप स्फुरित नहीं होता। उसके साथ आनंदपूर्ण प्रयत्न या उसकी उत्कंठा का योग चाहिए। सारांश यह है कि उसकी उत्कंठा में ही उत्साह का दर्शन होता है; केवल कष्ट सहने के निश्चेष्ट यान में नहीं। दानवीर में अर्थत्याग का साहस अर्थात् उसके कारण होने वाले कष्ट को सहने की क्षमता अंतर्निहित रहती है। दानवीरता तभी कही जाएगी, जब दान के कारण दानी को अपने जीवन निर्वाह में किसी प्रकार कष्ट या कठिनता दिखाई देगी। किंतु जब तक दान देने में पूर्ण तत्परता और आनंद के चिह्न न दिखाई पड़ेंगे तब तक उत्साह का स्वरूप न खड़ा होगा। संसार में और भी विकट काम होते हैं, जिनमें घोर शारीरिक कष्ट सहना पड़ता है जैसे अनुसंधान के लिए तुषार-मंडित, अन्नभेदी, अगम्य पर्वतों की चढ़ाई, ध्रुव देश के सहारा के रेगिस्तान का सफर, क्रूर बर्बर जातियों के बीच अज्ञात घोर जंगलों में प्रवेश इत्यादि भी पूरी वीरता और पराक्रम के कर्म हैं। मनुष्य शारीरिक कष्ट से नहीं किंतु मानसिक क्लेश की संभावना से बहुत-से कर्मों की ओर प्रवृत्त होने का साहस नहीं करता। जिन बातों से समाज के बीच उपहास, निंदा, अपमान इत्यादि का भय रहता है, उन्हें अच्छा एवं कल्याणकारी जानकर भी उनसे दूर रहते हैं। कुछ हानि देने वाली प्रथाओं का अनुसरण लोग केवल इसलिए करते चलते हैं कि उनके त्याग से वे बुरे कहे जाएँगे, उनका आदर-सम्मान घट जाएगा।

SubQuestion No : 12

Q.12 गद्यांश से निष्कर्ष निकलता है कि:

Ans

- ✗ A. साहस के साथ लोकोपवाद का भय न हो तभी वीरता प्रदर्शित हो सकती है।
- ✗ B. साहस के साथ कष्ट सहने की क्षमता हो तभी वीरता का संचरण होता है।
- ✗ C. साहस के साथ धीरता हो तभी उस कर्म को वीरता का कर्म कहा जा सकता है।
- ✓ D. साहस के साथ आनंद हो तभी उस कर्म को वीरता का कर्म कहा जा सकता है।

Question ID : 630680440371

Option 1 ID : 6306801719153

Option 2 ID : 6306801719152

Option 3 ID : 6306801719151

Option 4 ID : 6306801719150

Status : Not Attempted and  
Marked For Review

Chosen Option : --

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## Comprehension:

प्रश्न के उत्तर दिए गए गद्यांश के आधार पर दीजिए।

जिन कर्मों में किसी प्रकार का कष्ट या हानि सहने का साहस अपेक्षित होता है, उन सबके प्रति उत्कंठापूर्ण आनंद उत्साह के अंतर्गत लिया जाता है। कष्ट या हानि के भेद के अनुसार उत्साह के भी भेद हो जाते हैं। साहित्य मीमांसकों ने इसी दृष्टि से युद्धवीर, दानवीर, दयावीर इत्यादि भेद किये हैं। सबसे प्राचीन और प्रधान युद्ध वीरता है, जिसमें आघात, पीड़ा क्या मृत्यु तक की परवाह नहीं रहती। केवल कष्ट या पीड़ा सहन करने के साहस में ही उत्साह का स्वरूप स्फुरित नहीं होता। उसके साथ आनंदपूर्ण प्रयत्न या उसकी उत्कंठा का योग चाहिए। सारांश यह है कि उसकी उत्कंठा में ही उत्साह का दर्शन होता है; केवल कष्ट सहने के निश्चेष्ट यान में नहीं। दानवीर में अर्थत्याग का साहस अर्थात् उसके कारण होने वाले कष्ट को सहने की क्षमता अंतर्निहित रहती है। दानवीरता तभी कही जाएगी, जब दान के कारण दानी को अपने जीवन निर्वाह में किसी प्रकार कष्ट या कठिनता दिखाई देगी। किंतु जब तक दान देने में पूर्ण तत्परता और आनंद के चिह्न न दिखाई पड़ेंगे तब तक उत्साह का स्वरूप न खड़ा होगा। संसार में और भी विकट काम होते हैं, जिनमें घोर शारीरिक कष्ट सहना पड़ता है जैसे अनुसंधान के लिए तुषार-मंडित, अभ्रभेदी, अगम्य पर्वतों की चढ़ाई, ध्रुव देश के सहारा के रेगिस्तान का सफर, क्रूर बर्बर जातियों के बीच अज्ञात घोर जंगलों में प्रवेश इत्यादि भी पूरी वीरता और पराक्रम के कर्म हैं। मनुष्य शारीरिक कष्ट से नहीं किंतु मानसिक क्लेश की संभावना से बहुत-से कर्मों की ओर प्रवृत्त होने का साहस नहीं करता। जिन बातों से समाज के बीच उपहास, निंदा, अपमान इत्यादि का भय रहता है, उन्हें अच्छा एवं कल्याणकारी जानकर भी उनसे दूर रहते हैं। कुछ हानि देने वाली प्रथाओं का अनुसरण लोग केवल इसलिए करते चलते हैं कि उनके त्याग से वे बुरे कहे जाएँगे, उनका आदर-सम्मान घट जाएगा।

SubQuestion No : 13

Q.13 गद्यांश में सबसे प्रधान वीरता किसे माना गया है?

- Ans
- A. बात वीरता
- B. दान वीरता

✓ C. युद्ध वीरता

✗ D. दया वीरता

Question ID : 630680440369

Option 1 ID : 6306801719145

Option 2 ID : 6306801719142

Option 3 ID : 6306801719143

Option 4 ID : 6306801719144

Status : **Not Attempted and  
Marked For Review**

Chosen Option : --

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## Comprehension:

प्रश्न के उत्तर दिए गए गद्यांश के आधार पर दीजिए।

जिन कर्मों में किसी प्रकार का कष्ट या हानि सहने का साहस अपेक्षित होता है, उन सबके प्रति उत्कंठापूर्ण आनंद उत्साह के अंतर्गत लिया जाता है। कष्ट या हानि के भेद के अनुसार उत्साह के भी भेद हो जाते हैं। साहित्य मीमांसकों ने इसी दृष्टि से युद्धवीर, दानवीर, दयावीर इत्यादि भेद किये हैं। सबसे प्राचीन और प्रधान युद्ध वीरता है, जिसमें आघात, पीड़ा क्या मृत्यु तक की परवाह नहीं रहती। केवल कष्ट या पीड़ा सहन करने के साहस में ही उत्साह का स्वरूप स्फुरित नहीं होता। उसके साथ आनंदपूर्ण प्रयत्न या उसकी उत्कंठा का योग चाहिए। सारांश यह है कि उसकी उत्कंठा में ही उत्साह का दर्शन होता है; केवल कष्ट सहने के निश्चेष्ट यान में नहीं। दानवीर में अर्थत्याग का साहस अर्थात् उसके कारण होने वाले कष्ट को सहने की क्षमता अंतर्निहित रहती है। दानवीरता तभी कही जाएगी, जब दान के कारण दानी को अपने जीवन निर्वाह में किसी प्रकार कष्ट या कठिनता दिखाई देगी। किंतु जब तक दान देने में पूर्ण तत्परता और आनंद के चिह्न न दिखाई पड़ेंगे तब तक उत्साह का स्वरूप न खड़ा होगा। संसार में और भी विकट काम होते हैं, जिनमें घोर शारीरिक कष्ट सहना पड़ता है जैसे अनुसंधान के लिए तुषार-मंडित, अभ्रभेदी, अगम्य पर्वतों की चढ़ाई, ध्रुव देश के सहारा के रेगिस्तान का सफर, क्रूर बर्बर जातियों के बीच अज्ञात घोर जंगलों में प्रवेश इत्यादि भी पूरी वीरता और पराक्रम के कर्म हैं। मनुष्य शारीरिक कष्ट से नहीं किंतु मानसिक क्लेश की संभावना से बहुत-से कर्मों की ओर प्रवृत्त होने का साहस नहीं करता। जिन बातों से समाज के बीच उपहास, निंदा, अपमान इत्यादि का भय रहता है, उन्हें अच्छा एवं कल्याणकारी जानकर भी उनसे दूर रहते हैं। कुछ हानि देने वाली प्रथाओं का अनुसरण लोग केवल इसलिए करते चलते हैं कि उनके त्याग से वे बुरे कहे जाएँगे, उनका आदर-सम्मान घट जाएगा।

SubQuestion No : 14

Q.14 तुषार मंडित से क्या तात्पर्य है?

Ans  A. बारिश से धुला

- ✓ B. बर्फ से सज्जित
- ✗ C. ओस से भीगा
- ✗ D. कोहरे से ढका

Question ID : 630680440367

Option 1 ID : 6306801719136

Option 2 ID : 6306801719134

Option 3 ID : 6306801719135

Option 4 ID : 6306801719137

Status : **Not Attempted and  
Marked For Review**

Chosen Option : --

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**Comprehension:**

प्रश्न के उत्तर दिए गए गद्यांश के आधार पर दीजिए।

जिन कर्मों में किसी प्रकार का कष्ट या हानि सहने का साहस अपेक्षित होता है, उन सबके प्रति उत्कंठापूर्ण आनंद उत्साह के अंतर्गत लिया जाता है। कष्ट या हानि के भेद के अनुसार उत्साह के भी भेद हो जाते हैं। साहित्य मीमांसकों ने इसी दृष्टि से युद्धवीर, दानवीर, दयावीर इत्यादि भेद किये हैं। सबसे प्राचीन और प्रधान युद्ध वीरता है, जिसमें आघात, पीड़ा क्या मृत्यु तक की परवाह नहीं रहती। केवल कष्ट या पीड़ा सहन करने के साहस में ही उत्साह का स्वरूप स्फुरित नहीं होता। उसके साथ आनंदपूर्ण प्रयत्न या उसकी उत्कंठा का योग चाहिए। सारांश यह है कि उसकी उत्कंठा में ही उत्साह का दर्शन होता है; केवल कष्ट सहने के निश्चेष्ट यान में नहीं। दानवीर में अर्थत्याग का साहस अर्थात् उसके कारण होने वाले कष्ट को सहने की क्षमता अंतर्निहित रहती है। दानवीरता तभी कही जाएगी, जब दान के कारण दानी को अपने जीवन निर्वाह में किसी प्रकार कष्ट या कठिनता दिखाई देगी। किंतु जब तक दान देने में पूर्ण तत्परता और आनंद के चिह्न न दिखाई पड़ेंगे तब तक उत्साह का स्वरूप न खड़ा होगा। संसार में और भी विकट काम होते हैं, जिनमें घोर शारीरिक कष्ट सहना पड़ता है जैसे अनुसंधान के लिए तुषार-मंडित, अभ्रभेदी, अगम्य पर्वतों की चढ़ाई, ध्रुव देश के सहारा के रेगिस्तान का सफर, क्रूर बर्बर जातियों के बीच अज्ञात घोर जंगलों में प्रवेश इत्यादि भी पूरी वीरता और पराक्रम के कर्म हैं। मनुष्य शारीरिक कष्ट से नहीं किंतु मानसिक क्लेश की संभावना से बहुत-से कर्मों की ओर प्रवृत्त होने का साहस नहीं करता। जिन बातों से समाज के बीच उपहास, निंदा, अपमान इत्यादि का भय रहता है, उन्हें अच्छा एवं कल्याणकारी जानकर भी उनसे दूर रहते हैं। कुछ हानि देने वाली प्रथाओं का अनुसरण लोग केवल इसलिए करते चलते हैं कि उनके त्याग से वे बुरे कहे जाएँगे, उनका आदर-सम्मान घट जाएगा।

SubQuestion No : 15

Q.15 बहुत से लोग हानि पहुँचाने वाली प्रथाओं का अनुसरण नहीं छोड़ते क्योंकि \_\_\_\_\_ ।

Ans  A.

उन्हें डर होता है कि इन प्रथाओं को त्यागने से उनका आदर-सम्मान घट जाएगा।

B.

पुराने समय से चलते रहने के कारण वह प्रथाएँ प्रिय हो जाती हैं।

C.

उन्हें समाज सुधार अथवा समाज में बदलाव लाने में कोई रुचि नहीं होती।

D. वह इन प्रथाओं को अपने लिए हानिकर नहीं समझते।

Question ID : 630680440368

Option 1 ID : 6306801719140

Option 2 ID : 6306801719139

Option 3 ID : 6306801719141

Option 4 ID : 6306801719138

Status : **Not Attempted and  
Marked For Review**

Chosen Option : --

Section : General English

**Q.1** Select the option that can substitute the underlined word in the given idiom correctly. If no substitution is required, select 'No substitution required'.

Storm in an ocean

Ans  A. a city

B. No substitution required

C. a tea-cup

D. a kettle

Question ID : 630680440380

Option 1 ID : 6306801719186

Option 2 ID : 6306801719189

Option 3 ID : 6306801719188

Option 4 ID : 6306801719187

Status : **Answered**

Chosen Option : C

**Q.2** Select the sentence with the grammatically correct verb form.

Ans  A.

She had been learning French for two years before she went to France.

B.

She has learn French for two years before she went to France.

C.

She had learning French for two years before she went to France.

D.

She has been learning French for two years before she went to France.

Question ID : 630680440376

Option 1 ID : 6306801719172

Option 2 ID : 6306801719171

Option 3 ID : 6306801719173

Option 4 ID : 6306801719170

Status : **Answered**

Chosen Option : A

Q.3 Select the most appropriate option to fill in the blank.

Have you found any book \_\_\_\_\_ science fiction?

- Ans  A. over  
 B. on  
 C. for  
 D. at

Question ID : 630680440372  
Option 1 ID : 6306801719156  
Option 2 ID : 6306801719155  
Option 3 ID : 6306801719157  
Option 4 ID : 6306801719154  
Status : Answered  
Chosen Option : B

Q.4 Select the most appropriate synonym of the given word.

Candid

- Ans  A. Frank  
 B. Devious  
 C. Tactful  
 D. Biased

Question ID : 630680440378  
Option 1 ID : 6306801719181  
Option 2 ID : 6306801719179  
Option 3 ID : 6306801719178  
Option 4 ID : 6306801719180  
Status : Answered  
Chosen Option : A

Q.5 The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

In a decade from now / most people will driving / electric cars.

- Ans  A. most people will driving  
 B. electric cars  
 C. In a decade from now  
 D. No error

Question ID : 630680440375  
Option 1 ID : 6306801719167  
Option 2 ID : 6306801719168  
Option 3 ID : 6306801719166  
Option 4 ID : 6306801719169  
Status : Answered  
Chosen Option : A

**Q.6** The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

The children getting / ready for school / at seven in the morning.

- Ans**
- A. The children getting
  - B. at seven in the morning
  - C. ready for school
  - D. No error

Question ID : 630680440374  
Option 1 ID : 6306801719162  
Option 2 ID : 6306801719164  
Option 3 ID : 6306801719163  
Option 4 ID : 6306801719165  
Status : Answered  
Chosen Option : A

**Q.7** Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- A. a goods train derailed at
- B. Korei railway station in Odisha
- C. at least three people were killed
- D. while some were injured after

- Ans**
- A. CBDA
  - B. DACB
  - C. CDAB
  - D. ADBC

Question ID : 630680440381  
Option 1 ID : 6306801719191  
Option 2 ID : 6306801719193  
Option 3 ID : 6306801719192  
Option 4 ID : 6306801719190  
Status : Answered  
Chosen Option : C

**Q.8** Select the most appropriate option to fill in the blank.

She agreed \_\_\_\_\_ me her notes for the weekend.

- Ans**
- A. to lend
  - B. lending
  - C. lent
  - D. lend

Question ID : 630680440373  
Option 1 ID : 6306801719160  
Option 2 ID : 6306801719161  
Option 3 ID : 6306801719159  
Option 4 ID : 6306801719158  
Status : Answered  
Chosen Option : A



**Q.9** Select the most appropriate ANTONYM of the word given in brackets to fill in the blank.

They looked at each other \_\_\_\_\_ (gaily) for the last time and said goodbye forever.

- Ans**
- A. solemnly
  - B. colourfully
  - C. gleefully
  - D. cheerfully

Question ID : 630680440377  
Option 1 ID : 6306801719175  
Option 2 ID : 6306801719176  
Option 3 ID : 6306801719177  
Option 4 ID : 6306801719174  
Status : Answered  
Chosen Option : A

**Q.10** Select the option that can substitute the underlined word in the given proverb correctly. If no substitution is required, select 'No substitution required'.

Too many girls spoil the broth

- Ans**
- A. people
  - B. women
  - C. No substitution required
  - D. cooks

Question ID : 630680440379  
Option 1 ID : 6306801719183  
Option 2 ID : 6306801719184  
Option 3 ID : 6306801719185  
Option 4 ID : 6306801719182  
Status : Answered  
Chosen Option : D

**Comprehension:**

Read the given passage and answer the questions that follow.

You're at the zoo with your family and you see a big group of flamingos in the bird habitat. They are so funny looking with their pink feathers and almost all standing on one leg! Have you ever wondered why flamingos are pink or why they live in water? Let's explore these quirky animals.

Flamingos are pink birds. They have bright pink feathers and long, skinny legs. Flamingos are very lightweight – they typically weigh between 4 and 8 pounds, which is about as much as a human baby! As we mentioned, they're often seen standing on one leg. In fact, they sometimes do this for hours at a time.

Flamingos live in places with warm weather, and they can usually be found near lakes and rivers. Flamingos like to live together in groups called colonies, and staying with other flamingos helps keep them safe. They do lots of their hunting and eating with their heads in the mud, so the other flamingos keep watch and protect the flamingo with its head down!

Flamingos are omnivores. This means that they eat both plants and animals. They eat lots of shrimp, and the pink colour of the shrimp turns their feathers pink! These birds also like to eat algae, plankton and insects. When a flamingo sees food that it wants to eat, it put its head under the water, twists its neck so its head is upside down and uses its beak to scoop up the food.

Parent flamingos build nests to keep their eggs safe. The nests look like big piles of mud and can be found next to lakes and rivers.

Flamingos lay just one egg at a time and the parents take turns taking care of the egg. Baby flamingos are called chicks. Flamingo chicks do not turn pink until they are about 2 years old!

SubQuestion No : 11

Q.11 Where do the flamingos live?

- Ans
- A. Flamingos live in colonies.
  - B. Flamingos live near lakes and rivers in warm places.
  - C. Flamingos live together in groups.
  - D. Flamingos live in bird habitats of zoos.

Question ID : 630680440384

Option 1 ID : 6306801719201

Option 2 ID : 6306801719199

Option 3 ID : 6306801719198

Option 4 ID : 6306801719200

Status : Answered

Chosen Option : B

**Comprehension:**

Read the given passage and answer the questions that follow.

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SubQuestion No : 12

Q.12 Which of the following makes the colour of flamingos pink?

- Ans
- A. Shrimp
  - B. Algae
  - C. Plankton
  - D. Insects

Question ID : 630680440386

Option 1 ID : 6306801719206

Option 2 ID : 6306801719207

Option 3 ID : 6306801719208

Option 4 ID : 6306801719209

Status : Answered

Chosen Option : A

**Comprehension:**

Read the given passage and answer the questions that follow.

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SubQuestion No : 13

Q.13 What is this passage mainly about?

- Ans
- A. The babies of flamingos
  - B. The eating habits of flamingos
  - C. General information about flamingos
  - D. The colour of flamingos

Question ID : 630680440383

Option 1 ID : 6306801719197

Option 2 ID : 6306801719194

Option 3 ID : 6306801719196

Option 4 ID : 6306801719195

Status : Answered

Chosen Option : C

**Comprehension:**

Read the given passage and answer the questions that follow.

You're at the zoo with your family and you see a big group of flamingos in the bird habitat. They are so funny looking with their pink feathers and almost all standing on one leg! Have you ever wondered why flamingos are pink or why they live in water? Let's explore these quirky animals.

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SubQuestion No : 14

Q.14 After reading the passage, which question CANNOT be answered about flamingos?

- Ans
- A. What do flamingos eat?
  - B. What do flamingos look like and where do they live?
  - C. What are flamingos?
  - D. When do flamingos migrate and where to?

Question ID : 630680440385

Option 1 ID : 6306801719204

Option 2 ID : 6306801719203

Option 3 ID : 6306801719202

Option 4 ID : 6306801719205

Status : Answered

Chosen Option : B

**Comprehension:**

Read the given passage and answer the questions that follow.

You're at the zoo with your family and you see a big group of flamingos in the bird habitat. They are so funny looking with their pink feathers and almost all standing on one leg! Have you ever wondered why flamingos are pink or why they live in water? Let's explore these quirky animals.

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Flamingos are omnivores. This means that they eat both plants and animals. They eat lots of shrimp, and the pink colour of the shrimp turns their feathers pink! These birds also like to eat algae, plankton and insects. When a flamingo sees food that it wants to eat, it put its head under the water, twists its neck so its head is upside down and uses its beak to scoop up the food.

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Flamingos lay just one egg at a time and the parents take turns taking care of the egg. Baby flamingos are called chicks. Flamingo chicks do not turn pink until they are about 2 years old!

SubQuestion No : 15

Q.15 The word 'quirky' in the passage means all the following EXCEPT:

- Ans  A. common  
 B. unusual  
 C. odd  
 D. peculiar

Question ID : 630680440387

Option 1 ID : 6306801719213

Option 2 ID : 6306801719210

Option 3 ID : 6306801719212

Option 4 ID : 6306801719211

Status : Answered

Chosen Option : A

Q.1 What is represented by the safety symbol in the figure below?



- Ans
- A. Symbol for explosives or an explosion hazard
  - B. Hazard symbol for non-flammable gas
  - C. Sign indicating flammable gas
  - D. Sign to prohibit flames and smoking

Question ID : 630680440388

Option 1 ID : 6306801719215

Option 2 ID : 6306801719214

Option 3 ID : 6306801719217

Option 4 ID : 6306801719216

Status : Answered

Chosen Option : D

Q.2 In a lead acid battery, the anode is made of \_\_\_\_\_ and the cathode is made of \_\_\_\_\_.

- Ans
- A. Pb; PbO<sub>2</sub>
  - B. PbO<sub>2</sub>; Cd
  - C. PbO<sub>2</sub>; Pb
  - D. Pb; NiOH<sub>3</sub>

Question ID : 630680440419

Option 1 ID : 6306801719338

Option 2 ID : 6306801719340

Option 3 ID : 6306801719341

Option 4 ID : 6306801719339

Status : Answered

Chosen Option : C

Q.3 The earth resistance of house wiring should, approximately, be:

- Ans
- A. less than 1  $\Omega$
  - B. less than 2  $\Omega$
  - C. less than 5  $\Omega$
  - D. less than 50  $\Omega$

Question ID : 630680440453

Option 1 ID : 6306801719476

Option 2 ID : 6306801719475

Option 3 ID : 6306801719477

Option 4 ID : 6306801719474

Status : Answered

Chosen Option : C

**Q.4** The active and reactive powers of an inductive circuit are 40 W and 30 VAR, respectively. What is the power factor of the circuit?

- Ans**
- A. 0.8 lagging
  - B. 0.75 lagging
  - C. 0.8 leading
  - D. 0.6 lagging

Question ID : 630680440464  
Option 1 ID : 6306801719520  
Option 2 ID : 6306801719519  
Option 3 ID : 6306801719518  
Option 4 ID : 6306801719521  
Status : Answered  
Chosen Option : A

**Q.5** The field winding of a generator has a resistance of 12  $\Omega$  at 20  $^{\circ}\text{C}$  and 16  $\Omega$  at 60  $^{\circ}\text{C}$ . What is the temperature coefficient at 0  $^{\circ}\text{C}$  ?

- Ans**
- A.  $\frac{1}{100} / ^{\circ}\text{C}$
  - B.  $\frac{1}{50} / ^{\circ}\text{C}$
  - C.  $\frac{1}{10} / ^{\circ}\text{C}$
  - D.  $\frac{1}{200} / ^{\circ}\text{C}$

Question ID : 630680440432  
Option 1 ID : 6306801719390  
Option 2 ID : 6306801719393  
Option 3 ID : 6306801719392  
Option 4 ID : 6306801719391  
Status : Answered  
Chosen Option : C

**Q.6** In a symmetrical three-phase system, if the instantaneous values of phase R and Y are -120 V and -60 V, respectively, then what is the instantaneous voltage of B phase?

- Ans**
- A. 180 V
  - B. 60 V
  - C. -60 V
  - D. -180 V

Question ID : 630680440465  
Option 1 ID : 6306801719524  
Option 2 ID : 6306801719523  
Option 3 ID : 6306801719525  
Option 4 ID : 6306801719522  
Status : Answered  
Chosen Option : A



**Q.7** If a net charge  $Q$ , flows across any cross-section of a conductor in time  $t$ , then the current  $I$ , through the cross-section is:

**Ans**

A.  $I = \frac{2Q}{t}$

B.  $I = \frac{Q^2}{t}$

C.  $I = \frac{Q^2}{2t}$

D.  $I = \frac{Q}{t}$

Question ID : **630680440393**

Option 1 ID : **6306801719237**

Option 2 ID : **6306801719235**

Option 3 ID : **6306801719236**

Option 4 ID : **6306801719234**

Status : **Answered**

Chosen Option : **D**

**Q.8** An electric bulb is connected to a 220 V generator. The current is 0.50 A. What is the power consumed by the bulb?

**Ans**  A. 440 W

B. 55 W

C. 220 W

D. 110 W

Question ID : **630680440408**

Option 1 ID : **6306801719295**

Option 2 ID : **6306801719297**

Option 3 ID : **6306801719296**

Option 4 ID : **6306801719294**

Status : **Answered**

Chosen Option : **D**

**Q.9** It is desired to charge a battery of 100 cells from a 200 V supply, internal resistance of each cell being  $0.05 \Omega$ . If the EMF of each cell is 1 V at the beginning of the charge, then what is the series resistance required in order limit the initial charging current to 5 A?

**Ans**  A.  $15 \Omega$

B.  $40 \Omega$

C.  $25 \Omega$

D.  $20 \Omega$

Question ID : **630680440420**

Option 1 ID : **6306801719342**

Option 2 ID : **6306801719345**

Option 3 ID : **6306801719344**

Option 4 ID : **6306801719343**

Status : **Answered**

Chosen Option : **B**

**Q.10** Which is the correct expression relating the synchronous speed ( $N_s$ ) and the rotor speed ( $N$ ) in terms of the slip( $s$ ) of a three-phase induction motor?

- Ans**
- A.  $N = N_s(s - 1)$
  - B.  $N = sN_s$
  - C.  $N = N_s(1 + s)$
  - D.  $N = N_s(1 - s)$

Question ID : 630680440506

Option 1 ID : 6306801719688

Option 2 ID : 6306801719689

Option 3 ID : 6306801719686

Option 4 ID : 6306801719687

Status : Answered

Chosen Option : D

**Q.11** What is the frequency of rotor-induced EMF at full load in a 4 pole, 50 Hz, three-phase induction motor operating with a full load slip of 6%?

- Ans**
- A. 3 Hz
  - B. 25 Hz
  - C. 50 Hz
  - D. 6 Hz

Question ID : 630680440507

Option 1 ID : 6306801719693

Option 2 ID : 6306801719691

Option 3 ID : 6306801719692

Option 4 ID : 6306801719690

Status : Answered

Chosen Option : A

Q.12 Identify the following wiring accessory.



- Ans  A. Pendant holder  
 B. Socket outlet  
 C. Ceiling rose  
 D. Batten holder

Question ID : 630680440535  
Option 1 ID : 6306801719804  
Option 2 ID : 6306801719805  
Option 3 ID : 6306801719803  
Option 4 ID : 6306801719802  
Status : Answered  
Chosen Option : A

Q.13 The maximum torque developed by a three-phase induction motor is \_\_\_\_\_.

- Ans  A. directly proportional to the applied voltage  
 B. inversely proportional to the square of the applied voltage  
 C. inversely proportional to the applied voltage  
 D. inversely proportional to the rotor reactance at standstill

Question ID : 630680440508  
Option 1 ID : 6306801719694  
Option 2 ID : 6306801719697  
Option 3 ID : 6306801719696  
Option 4 ID : 6306801719695  
Status : Answered  
Chosen Option : D

Q.14 UJT has \_\_\_\_\_ p-n junction and \_\_\_\_\_ terminals.

- Ans
- A. two; two
  - B. two; three
  - C. one; three
  - D. one; two

Question ID : 630680440523  
Option 1 ID : 6306801719755  
Option 2 ID : 6306801719757  
Option 3 ID : 6306801719756  
Option 4 ID : 6306801719754  
Status : Answered  
Chosen Option : C

Q.15 In a three-phase, three-wire circuit with unbalanced star connected inductive load, what is the minimum number of watt-meters needed to measure the total active power?

- Ans
- A. Three
  - B. Two
  - C. One
  - D. Four

Question ID : 630680440468  
Option 1 ID : 6306801719535  
Option 2 ID : 6306801719536  
Option 3 ID : 6306801719534  
Option 4 ID : 6306801719537  
Status : Answered  
Chosen Option : A

Q.16 An electric refrigerator rated 500 W operates 10 hours/day. What is the cost of the energy to operate it for 30 days at ₹5.00 per kWh?

- Ans
- A. ₹1,500
  - B. ₹750
  - C. ₹7,500
  - D. ₹2,500

Question ID : 630680440409  
Option 1 ID : 6306801719301  
Option 2 ID : 6306801719300  
Option 3 ID : 6306801719298  
Option 4 ID : 6306801719299  
Status : Answered  
Chosen Option : B

**Q.17** Which of the following is a conductor of electricity?

- Ans**
- A. Wood
  - B. Plastic
  - C. Glass
  - D. Human body

Question ID : 630680440400  
Option 1 ID : 6306801719262  
Option 2 ID : 6306801719263  
Option 3 ID : 6306801719264  
Option 4 ID : 6306801719265  
Status : Answered  
Chosen Option : D

**Q.18** A 200 V lamp emits a total luminous flux of 4000 lumens while taking a current of 2 A, from the supply. What is its luminous efficiency?

- Ans**
- A. 10 W/lumen
  - B. 0.1 lumens/W
  - C. 10 lumens/W
  - D. 1 W/lumen

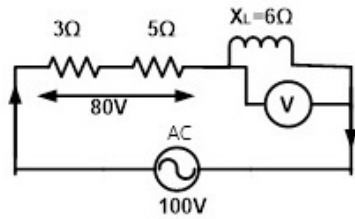
Question ID : 630680440500  
Option 1 ID : 6306801719662  
Option 2 ID : 6306801719664  
Option 3 ID : 6306801719663  
Option 4 ID : 6306801719665  
Status : Answered  
Chosen Option : C

**Q.19** Which meter used to measure the specific gravity of the electrolyte so as to get an indication of the state of charge of the battery?

- Ans**
- A. Barometer
  - B. Hygrometer
  - C. Hydrometer
  - D. Anemometer

Question ID : 630680440421  
Option 1 ID : 6306801719349  
Option 2 ID : 6306801719346  
Option 3 ID : 6306801719348  
Option 4 ID : 6306801719347  
Status : Answered  
Chosen Option : C

Q.20 What will be reading of the voltmeter in the figure below?



- Ans
- A. 60 V
  - B. 120 V
  - C. 20 V
  - D. 40 V

Question ID : 630680440462  
 Option 1 ID : 6306801719512  
 Option 2 ID : 6306801719513  
 Option 3 ID : 6306801719510  
 Option 4 ID : 6306801719511  
 Status : Not Answered  
 Chosen Option : --

Q.21 A single-phase auto-transformer has \_\_\_\_\_ number of windings.

- Ans
- A. one
  - B. two
  - C. four
  - D. three

Question ID : 630680440473  
 Option 1 ID : 6306801719554  
 Option 2 ID : 6306801719555  
 Option 3 ID : 6306801719557  
 Option 4 ID : 6306801719556  
 Status : Answered  
 Chosen Option : A

Q.22 As recommended in BIS. and NEC, the clearance between the bottom point of the ceiling fan and the floor should be not less than \_\_\_\_\_ m.

- Ans
- A. 2.4
  - B. 2
  - C. 3
  - D. 1.5

Question ID : 630680440527  
 Option 1 ID : 6306801719771  
 Option 2 ID : 6306801719770  
 Option 3 ID : 6306801719772  
 Option 4 ID : 6306801719773  
 Status : Answered  
 Chosen Option : D

Q.23 Applied voltage and current in an electric circuit are expressed as below.

$$v = 100\sin\left(314t + \frac{\pi}{6}\right)$$

$$i = 10\sin\left(314t - \frac{\pi}{6}\right)$$

What is the power factor of the circuit?

- Ans
- A. 0.87 leading
  - B. 0.5 leading
  - C. 0.87 lagging
  - D. 0.5 lagging

Question ID : 630680440459  
Option 1 ID : 6306801719498  
Option 2 ID : 6306801719500  
Option 3 ID : 6306801719501  
Option 4 ID : 6306801719499  
Status : Answered  
Chosen Option : C

Q.24 In any indicating instrument, which torque is zero at the final equilibrium position of the pointer?

- Ans
- A. Both deflecting and controlling torque
  - B. Controlling torque
  - C. Deflecting torque
  - D. Damping torque

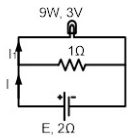
Question ID : 630680440487  
Option 1 ID : 6306801719613  
Option 2 ID : 6306801719611  
Option 3 ID : 6306801719610  
Option 4 ID : 6306801719612  
Status : Answered  
Chosen Option : D

Q.25 Huge alternators in generating stations have \_\_\_\_\_ arrangement.

- Ans
- A. stationary armature and stationary field
  - B. stationary armature and revolving field
  - C. revolving armature and stationary field
  - D. revolving armature and revolving field

Question ID : 630680440478  
Option 1 ID : 6306801719577  
Option 2 ID : 6306801719575  
Option 3 ID : 6306801719574  
Option 4 ID : 6306801719576  
Status : Answered  
Chosen Option : B

**Q.26** A torch bulb rated at 9 W, 3 V is connected as in the circuit given below. What EMF of the cell will make the bulb glow at full intensity?



- Ans**
- A. 6 V
  - B. 18 V
  - C. 4.5 V
  - D. 15 V

Question ID : 630680440411  
 Option 1 ID : 6306801719308  
 Option 2 ID : 6306801719309  
 Option 3 ID : 6306801719306  
 Option 4 ID : 6306801719307  
 Status : Answered  
 Chosen Option : D

**Q.27** 'The polarity of induced EMF is such that it tends to produce a current which opposes the change in magnetic flux that produced it.'  
 This is the statement of which law?

- Ans**
- A. Ampere's law
  - B. Lenz's law
  - C. Maxwell's law
  - D. Faraday's law

Question ID : 630680440434  
 Option 1 ID : 6306801719398  
 Option 2 ID : 6306801719401  
 Option 3 ID : 6306801719400  
 Option 4 ID : 6306801719399  
 Status : Answered  
 Chosen Option : B

**Q.28** In order to stabilise the voltage, gain of CE amplifier, emitter resistance is partially bypassed by \_\_\_\_\_.

- Ans**
- A. a resistor
  - B. a capacitor
  - C. a resistor and an inductor
  - D. an inductor

Question ID : 630680440522  
 Option 1 ID : 6306801719752  
 Option 2 ID : 6306801719753  
 Option 3 ID : 6306801719751  
 Option 4 ID : 6306801719750  
 Status : Answered  
 Chosen Option : B



Q.29 Flux linkage is the product of \_\_\_\_\_.

- Ans
- A. the number of turns and the length of the flux path
  - B. the number of turns and the flux density
  - C. the length of the flux path and the flux density
  - D. the number of turns and the flux

Question ID : 630680440430  
Option 1 ID : 6306801719383  
Option 2 ID : 6306801719384  
Option 3 ID : 6306801719385  
Option 4 ID : 6306801719382  
Status : Answered  
Chosen Option : D

Q.30 Which type of DC generator has the tendency to supply constant load current?

- Ans
- A. Series
  - B. Shunt
  - C. Separately excited
  - D. Compound

Question ID : 630680440443  
Option 1 ID : 6306801719434  
Option 2 ID : 6306801719435  
Option 3 ID : 6306801719437  
Option 4 ID : 6306801719436  
Status : Answered  
Chosen Option : A

Q.31 The magnetic characteristic of a DC generator is the plot between the \_\_\_\_\_ and \_\_\_\_\_ at a constant speed.

- Ans
- A. generated EMF; field current
  - B. generated EMF; load current
  - C. load EMF; load current
  - D. load EMF; field current

Question ID : 630680440439  
Option 1 ID : 6306801719421  
Option 2 ID : 6306801719418  
Option 3 ID : 6306801719420  
Option 4 ID : 6306801719419  
Status : Answered  
Chosen Option : A

Q.32 What is the time taken by  $5 \mu\text{C}$  charge to pass a point in the circuit, if the current flow is  $10 \text{ mA}$ ?

- Ans  A.  $0.5 \text{ ms}$   
 B.  $5 \text{ ms}$   
 C.  $50 \mu\text{s}$   
 D.  $5 \mu\text{s}$

Question ID : 630680440394  
Option 1 ID : 6306801719240  
Option 2 ID : 6306801719239  
Option 3 ID : 6306801719241  
Option 4 ID : 6306801719238  
Status : Answered  
Chosen Option : C

Q.33 Electro-static type instruments can be used as \_\_\_\_\_.

- Ans  A. ammeter only  
 B. frequency meter  
 C. voltmeter only  
 D. voltmeter and ammeter

Question ID : 630680440492  
Option 1 ID : 6306801719630  
Option 2 ID : 6306801719633  
Option 3 ID : 6306801719631  
Option 4 ID : 6306801719632  
Status : Answered  
Chosen Option : C

Q.34 Identify the following hand tool.



- Ans  A. Ratchet  
 B. Soldering iron  
 C. Crimping tool  
 D. Wrench

Question ID : 630680440398  
Option 1 ID : 6306801719254  
Option 2 ID : 6306801719255  
Option 3 ID : 6306801719256  
Option 4 ID : 6306801719257  
Status : Answered  
Chosen Option : B

**Q.35** Full load armature current of a 200 V, dc series motor is 50 A. What mechanical power it develops if the total resistance of armature circuit is  $0.1\Omega$ ?

- Ans
- A. 8750 W
  - B. 8500 W
  - C. 10 kW
  - D. 9750 W

Question ID : 630680440537  
Option 1 ID : 6306801719812  
Option 2 ID : 6306801719813  
Option 3 ID : 6306801719811  
Option 4 ID : 6306801719810  
Status : Answered  
Chosen Option : A

**Q.36** What is the angular velocity of a sinusoidally varying current  $i = 20 \sin 200t$  ?

- Ans
- A. 200 rad/s
  - B. 150 rad/s
  - C. 250 rad/s
  - D. 300 rad/s

Question ID : 630680440455  
Option 1 ID : 6306801719483  
Option 2 ID : 6306801719485  
Option 3 ID : 6306801719484  
Option 4 ID : 6306801719482  
Status : Answered  
Chosen Option : B

**Q.37** In a DC shunt generator, which loss is considered as independent of the load on the generator?

- Ans
- A. Mechanical loss
  - B. Iron loss
  - C. Iron loss + mechanical loss + shunt field loss
  - D. Iron loss + mechanical loss

Question ID : 630680440532  
Option 1 ID : 6306801719793  
Option 2 ID : 6306801719790  
Option 3 ID : 6306801719791  
Option 4 ID : 6306801719792  
Status : Answered  
Chosen Option : D

**Q.38** In an RL series circuit, the phase angle difference between the applied voltage and current will decrease if \_\_\_\_\_.

- Ans**
- A. supply frequency is increased
  - B.  $X_L$  is increased
  - C.  $X_L$  is decreased
  - D. R is decreased

Question ID : 630680440463  
Option 1 ID : 6306801719517  
Option 2 ID : 6306801719515  
Option 3 ID : 6306801719514  
Option 4 ID : 6306801719516  
Status : Answered  
Chosen Option : C

**Q.39** First aid for strains, sprains, contusions is packaged in the abbreviation RICE. What is its expansion?

- Ans**
- A. Rest, Ice, Console, Elevation
  - B. Revive, Ice, Compression, Elevation
  - C. Rest, Ice, Compression, Elevation
  - D. Revive, Ice, Console, Elevation

Question ID : 630680440390  
Option 1 ID : 6306801719225  
Option 2 ID : 6306801719224  
Option 3 ID : 6306801719223  
Option 4 ID : 6306801719222  
Status : Answered  
Chosen Option : C

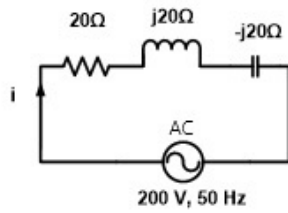
**Q.40** The motor generator set can be used for conversions of electrical power from AC to DC by using \_\_\_\_\_.

- Ans**
- A. induction motor and induction generator
  - B. induction motor and DC generator
  - C. DC motor and DC generator
  - D. DC motor and induction generator

Question ID : 630680440528  
Option 1 ID : 6306801719777  
Option 2 ID : 6306801719775  
Option 3 ID : 6306801719776  
Option 4 ID : 6306801719774  
Status : Answered  
Chosen Option : B

Q.41

What is the RMS value of current in the circuit given below?



- Ans
- A. 3.33 A
  - B.  $10\sqrt{2}$  A
  - C.  $\frac{10}{\sqrt{2}}$  A
  - D. 10 A

Question ID : 630680440461

Option 1 ID : 6306801719507

Option 2 ID : 6306801719509

Option 3 ID : 6306801719508

Option 4 ID : 6306801719506

Status : Answered

Chosen Option : D

Q.42 An electric bulb is rated 200 V and 100 W. When it is operated on 100 V, what will be the power consumed?

- Ans
- A. 100 W
  - B. 25 W
  - C. 75 W
  - D. 50 W

Question ID : 630680440410

Option 1 ID : 6306801719305

Option 2 ID : 6306801719304

Option 3 ID : 6306801719303

Option 4 ID : 6306801719302

Status : Answered

Chosen Option : B

Q.43 An MMF of 250 is needed to produce a flux of 1 mWb in an iron ring of cross-sectional area  $5 \text{ cm}^2$ . What is the flux density in the ring?

- Ans
- A. 5 T
  - B. 2.5 T
  - C. 1 T
  - D. 2 T

Question ID : 630680440426

Option 1 ID : 6306801719366

Option 2 ID : 6306801719369

Option 3 ID : 6306801719368

Option 4 ID : 6306801719367

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.44 What is the colour of the light if the wave length is 7000 AU?

- Ans
- A. Yellow
  - B. Blue
  - C. Green
  - D. Red

Question ID : 630680440497

Option 1 ID : 6306801719651

Option 2 ID : 6306801719650

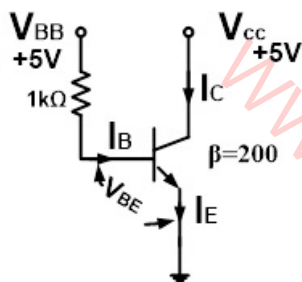
Option 3 ID : 6306801719653

Option 4 ID : 6306801719652

Status : Answered

Chosen Option : D

Q.45 For the circuit shown below, what power is dissipated in the transistor?



- Ans
- A. 2.2 W
  - B. 4.3 W
  - C. 6.4 W
  - D. 8.8 W

Question ID : 630680440521

Option 1 ID : 6306801719748

Option 2 ID : 6306801719746

Option 3 ID : 6306801719747

Option 4 ID : 6306801719749

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.46 What is the phase relationship between magnetising current and the applied voltage in a two-winding transformer?

- Ans
- A. In phase
  - B. Magnetising current lags the applied voltage by  $45^\circ$ .
  - C. Magnetising current lags behind the applied voltage by  $90^\circ$ .
  - D. Magnetising current leads the applied voltage by  $90^\circ$ .

Question ID : 630680440470

Option 1 ID : 6306801719542

Option 2 ID : 6306801719545

Option 3 ID : 6306801719543

Option 4 ID : 6306801719544

Status : Answered

Chosen Option : C

Q.47 PMMC instruments work on the principle of \_\_\_\_\_.

- Ans
- A. electro-dynamic effect
  - B. magnetic effect
  - C. induction effect
  - D. electro-magnetic effect

Question ID : 630680440486  
Option 1 ID : 6306801719608  
Option 2 ID : 6306801719606  
Option 3 ID : 6306801719609  
Option 4 ID : 6306801719607  
Status : Answered  
Chosen Option : A

Q.48 Three capacitors of capacitances  $6\ \mu\text{F}$  are connected in parallel across a voltage of 200 V. What is the equivalent capacitance as seen by the source?

- Ans
- A.  $12\ \mu\text{F}$
  - B.  $18\ \mu\text{F}$
  - C.  $2\ \mu\text{F}$
  - D.  $6\ \mu\text{F}$

Question ID : 630680440431  
Option 1 ID : 6306801719389  
Option 2 ID : 6306801719387  
Option 3 ID : 6306801719388  
Option 4 ID : 6306801719386  
Status : Answered  
Chosen Option : B

Q.49 A moving iron voltmeter with a coil of 10,000 turns of resistance  $2.5\ \text{k}\Omega$  and full-scale deflection of 250 V, is to be used as an ammeter of full-scale deflection 10 A. What is the number of turns required as an ammeter?

- Ans
- A. 200
  - B. 100
  - C. 2000
  - D. 1000

Question ID : 630680440491  
Option 1 ID : 6306801719629  
Option 2 ID : 6306801719626  
Option 3 ID : 6306801719628  
Option 4 ID : 6306801719627  
Status : Answered  
Chosen Option : A

**Q.50** With reference to a two-winding transformer, output kVA corresponding to maximum efficiency is equal to \_\_\_\_\_.

**Ans**

- A.  $full\ load\ kVA \times \sqrt{\frac{full\ load\ copper\ loss}{iron\ loss}}$
- B.  $full\ load\ kVA \times \frac{iron\ loss}{full\ load\ copper\ loss}$
- C.  $full\ load\ kVA \times \sqrt{\frac{iron\ loss}{full\ load\ copper\ loss}}$
- D.  $full\ load\ kVA \times \frac{full\ load\ copper\ loss}{iron\ loss}$

Question ID : 630680440474

Option 1 ID : 6306801719560

Option 2 ID : 6306801719559

Option 3 ID : 6306801719558

Option 4 ID : 6306801719561

Status : **Not Attempted and Marked For Review**

Chosen Option : --

**Q.51** Arrange the following electromagnetic waves in the ascending order of wavelength.

- I. Radio waves
- II. Visible light
- III. X-rays

- Ans**
- A. Radio waves, X-rays, visible light
- B. Visible light, X-rays, radio waves
- C. X-rays, visible light, radio waves
- D. X-rays, radio waves, visible light

Question ID : 630680440496

Option 1 ID : 6306801719646

Option 2 ID : 6306801719647

Option 3 ID : 6306801719649

Option 4 ID : 6306801719648

Status : **Answered**

Chosen Option : **B**

**Q.52** Behavioural therapy is an effective treatment for which type of industrial hazards?

- Ans**
- A. Biological hazards
- B. Electrical hazards
- C. Psychosocial hazards
- D. Fire hazards

Question ID : 630680440389

Option 1 ID : 6306801719219

Option 2 ID : 6306801719221

Option 3 ID : 6306801719220

Option 4 ID : 6306801719218

Status : **Answered**

Chosen Option : **C**



**Q.53** What is the approximate value of the specific gravity of the electrolyte of a fully charged lead acid cell?

- Ans  A. 0.88  
 B. 1.28  
 C. 4.68  
 D. 2.52

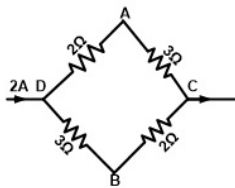
Question ID : 630680440418  
 Option 1 ID : 6306801719337  
 Option 2 ID : 6306801719334  
 Option 3 ID : 6306801719336  
 Option 4 ID : 6306801719335  
 Status : Answered  
 Chosen Option : B

**Q.54** Which of the following statements is INCORRECT with regard to the voltage regulation of an alternator?

- Ans  A.  
 At lagging power factor, an alternator has fairly large positive regulation.  
 B.  
 At leading power factor, an alternator often has negative regulation.  
 C.  
 At zero power factor lagging alternator has the highest regulation.  
 D.  
 At unity power factor, an alternator has small positive regulation.

Question ID : 630680440482  
 Option 1 ID : 6306801719591  
 Option 2 ID : 6306801719592  
 Option 3 ID : 6306801719593  
 Option 4 ID : 6306801719590  
 Status : Answered  
 Chosen Option : D

**Q.55** A current of 2 A flows in the circuit given below. What is the potential difference  $V_A - V_B$ ?



- Ans  A. -1 V  
 B. +1 V  
 C. +2 V  
 D. +3 V

Question ID : 630680440412  
 Option 1 ID : 6306801719313  
 Option 2 ID : 6306801719310  
 Option 3 ID : 6306801719312  
 Option 4 ID : 6306801719311  
 Status : Answered  
 Chosen Option : B

**Q.56** An alloy of \_\_\_\_\_ has a low melting point and is used for soldering electrical wires together.

- Ans**
- A. lead and zinc
  - B. lead and tin
  - C. copper and zinc
  - D. copper and tin

Question ID : 630680440399

Option 1 ID : 6306801719258

Option 2 ID : 6306801719260

Option 3 ID : 6306801719259

Option 4 ID : 6306801719261

Status : Answered

Chosen Option : B

**Q.57** Which statement is correct with reference to a single-phase electrodynamicometer power factor meter?

- Ans**
- A. The controlling torque is produced by gravity control.
  - B. The controlling torque is produced by spring control.
  - C. There is no controlling device.
  - D. The controlling torque is produced by the stiffness of the suspension.

Question ID : 630680440495

Option 1 ID : 6306801719643

Option 2 ID : 6306801719642

Option 3 ID : 6306801719645

Option 4 ID : 6306801719644

Status : Answered

Chosen Option : C

**Q.58** In domestic applications like vacuum cleaners, food mixers, sewing machine, etc, which motor is commonly used?

- Ans**
- A. Reluctance motor
  - B. Universal motor
  - C. Hysteresis motor
  - D. Shaded pole motor

Question ID : 630680440433

Option 1 ID : 6306801719394

Option 2 ID : 6306801719395

Option 3 ID : 6306801719397

Option 4 ID : 6306801719396

Status : Answered

Chosen Option : B

Q.59 An alternating current is expressed as  $i = 10\sin 314t$ . What is its frequency?

- Ans
- A. 100 Hz
  - B. 31.4 Hz
  - C. 314 Hz
  - D. 50 Hz

Question ID : 630680440457  
Option 1 ID : 6306801719493  
Option 2 ID : 6306801719492  
Option 3 ID : 6306801719490  
Option 4 ID : 6306801719491  
Status : Answered  
Chosen Option : D

Q.60 What kind of supply is required for the process of electrolysis?

- Ans
- A. AC supply
  - B. AC supply of varying frequency
  - C. Impulse voltage supply
  - D. DC supply

Question ID : 630680440416  
Option 1 ID : 6306801719326  
Option 2 ID : 6306801719328  
Option 3 ID : 6306801719329  
Option 4 ID : 6306801719327  
Status : Answered  
Chosen Option : D

Q.61 With lagging power factor load, full load regulation of the two-winding transformer can be \_\_\_\_\_.

- Ans
- A. always negative
  - B. positive or negative
  - C. zero
  - D. always positive

Question ID : 630680440475  
Option 1 ID : 6306801719564  
Option 2 ID : 6306801719565  
Option 3 ID : 6306801719562  
Option 4 ID : 6306801719563  
Status : Answered  
Chosen Option : D

**Q.62** With reference to magnets, curie temperature is the temperature of transition from \_\_\_\_\_.

- Ans**
- A. ferromagnetic to diamagnetism
  - B. paramagnetism to ferromagnetic
  - C. paramagnetism to diamagnetic
  - D. ferromagnetic to paramagnetism

Question ID : **630680440425**  
Option 1 ID : **6306801719364**  
Option 2 ID : **6306801719363**  
Option 3 ID : **6306801719365**  
Option 4 ID : **6306801719362**  
Status : **Answered**  
Chosen Option : **D**

**Q.63** Which DC motor has speed torque characteristics that are more suitable for electric traction application?

- Ans**
- A. Series
  - B. Separately excited
  - C. Compound
  - D. Shunt

Question ID : **630680440451**  
Option 1 ID : **6306801719466**  
Option 2 ID : **6306801719468**  
Option 3 ID : **6306801719469**  
Option 4 ID : **6306801719467**  
Status : **Answered**  
Chosen Option : **A**

**Q.64** Which of the following is NOT a type of frequency meter?

- Ans**
- A. Electrical resonance type
  - B. Ratiometer type
  - C. Electrostatic type
  - D. Mechanical resonance type

Question ID : **630680440494**  
Option 1 ID : **6306801719638**  
Option 2 ID : **6306801719639**  
Option 3 ID : **6306801719641**  
Option 4 ID : **6306801719640**  
Status : **Answered**  
Chosen Option : **C**

**Q.65** An armature of a 4-pole, three-phase alternator has 36 slots. If the armature winding is short pitched by one slot, what is the angle by which it is short pitched?

- Ans
- A.  $10^\circ$
  - B.  $36^\circ$
  - C.  $9^\circ$
  - D.  $20^\circ$

Question ID : 630680440516  
Option 1 ID : 6306801719726  
Option 2 ID : 6306801719728  
Option 3 ID : 6306801719729  
Option 4 ID : 6306801719727  
Status : Answered  
Chosen Option : D

**Q.66** Which type of earthing is cheaper and the most widely used method of earthing?

- Ans
- A. Pipe earthing
  - B. Plate earthing
  - C. Strip earthing
  - D. Rod earthing

Question ID : 630680440454  
Option 1 ID : 6306801719480  
Option 2 ID : 6306801719479  
Option 3 ID : 6306801719478  
Option 4 ID : 6306801719481  
Status : Answered  
Chosen Option : A

**Q.67** Which of the following parts of a DC machine is a stationary part?

- Ans
- A. Armature core
  - B. Armature winding
  - C. Commutator
  - D. Brush

Question ID : 630680440435  
Option 1 ID : 6306801719402  
Option 2 ID : 6306801719405  
Option 3 ID : 6306801719403  
Option 4 ID : 6306801719404  
Status : Answered  
Chosen Option : D

**Q.68** In a DC shunt motor, \_\_\_\_\_ regulates the flow of armature current to meet the load requirement.

- Ans**
- A. supply voltage
  - B. field current
  - C. line current
  - D. back EMF

Question ID : **630680440446**  
 Option 1 ID : **6306801719448**  
 Option 2 ID : **6306801719446**  
 Option 3 ID : **6306801719449**  
 Option 4 ID : **6306801719447**  
 Status : **Answered**  
 Chosen Option : **D**

**Q.69** 10 mJ of work is done when a charge of 10  $\mu\text{C}$  is transferred from one point to another. What is the potential difference between the two points?

- Ans**
- A. 1 kV
  - B. 100 V
  - C. 10 kV
  - D. 1 V

Question ID : **630680440397**  
 Option 1 ID : **6306801719250**  
 Option 2 ID : **6306801719251**  
 Option 3 ID : **6306801719252**  
 Option 4 ID : **6306801719253**  
 Status : **Answered**  
 Chosen Option : **D**

**Q.70** What is the correct expression for the magnetising force produced by an electric current in terms of the current (I), number of turns (N) and the length of flux path (l)?

- Ans**
- A.  $\frac{NI}{I}$
  - B.  $\frac{Il}{N}$
  - C.  $NIl$
  - D.  $\frac{NI}{l}$

Question ID : **630680440427**  
 Option 1 ID : **6306801719372**  
 Option 2 ID : **6306801719373**  
 Option 3 ID : **6306801719370**  
 Option 4 ID : **6306801719371**  
 Status : **Answered**  
 Chosen Option : **D**

**Q.71** Which type of single-phase induction motor is suitable for low power applications up to 30 W?

- Ans**
- A. Shaded pole motor
  - B. Capacitor start induction run motor
  - C. Resistance split phase motor
  - D. Capacitor start capacitor run motor

Question ID : 630680440514

Option 1 ID : 6306801719721

Option 2 ID : 6306801719718

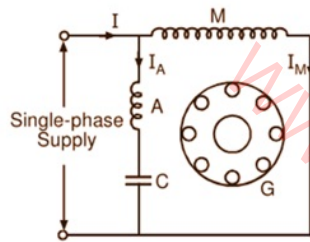
Option 3 ID : 6306801719720

Option 4 ID : 6306801719719

Status : Answered

Chosen Option : A

**Q.72** Identify the type of single-phase induction motor represented by the circuit diagram below.



- Ans**
- A. Permanent split capacitor motor
  - B. Resistance split phase motor
  - C. Capacitor start motor
  - D. Shaded pole motor

Question ID : 630680440513

Option 1 ID : 6306801719716

Option 2 ID : 6306801719714

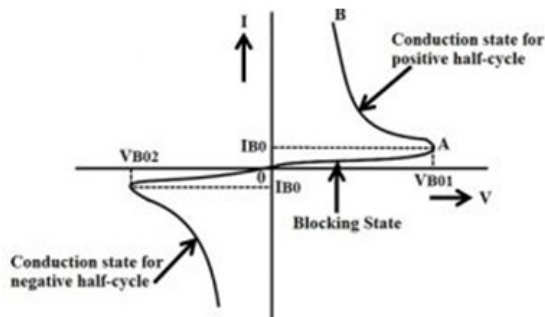
Option 3 ID : 6306801719715

Option 4 ID : 6306801719717

Status : Answered

Chosen Option : C

Q.73 Identify the device that exhibits the characteristics given in the following figure.



- Ans
- A. DIAC
  - B. SCR
  - C. TRIAC
  - D. GTO

Question ID : 630680440529

Option 1 ID : 6306801719778

Option 2 ID : 6306801719779

Option 3 ID : 6306801719780

Option 4 ID : 6306801719781

Status : Answered

Chosen Option : A

Q.74 An AC circuit takes a power of 4.8 kW at a power factor of 0.8 lagging. What is the apparent power?

- Ans
- A. 3 kVA
  - B. 6 kVA
  - C. 4.8 kVA
  - D. 3.84 kVA

Question ID : 630680440460

Option 1 ID : 6306801719505

Option 2 ID : 6306801719503

Option 3 ID : 6306801719504

Option 4 ID : 6306801719502

Status : Answered

Chosen Option : C

Q.75 A solenoid has a core of a material with relative permeability 401. The windings of the solenoid are insulated from the core and carry a current of 2 A. If the number of turns is 1000 per metre, what is the magnetisation?

- Ans
- A.  $2 \times 10^5 \text{ A/m}$
  - B.  $8 \times 10^5 \text{ A/m}$
  - C.  $2 \times 10^3 \text{ A/m}$
  - D.  $8 \times 10^6 \text{ A/m}$

Question ID : 630680440424

Option 1 ID : 6306801719361

Option 2 ID : 6306801719360

Option 3 ID : 6306801719358

Option 4 ID : 6306801719359

Status : Not Attempted and Marked For Review

Chosen Option : --



**Q.76** Three resistors of resistances  $10\ \Omega$  each are connected in star and energised with a three-phase balanced source of line voltage 400 V. What is the power rating of each resistor?

- Ans
- A. 4000 W
  - B. 2300 W
  - C. 4600 W
  - D. 5290 W

Question ID : 630680440466  
Option 1 ID : 6306801719527  
Option 2 ID : 6306801719529  
Option 3 ID : 6306801719528  
Option 4 ID : 6306801719526  
Status : Answered  
Chosen Option : D

**Q.77** Which meter is used for the measurement of electric energy?

- Ans
- A. Watt-hour meter
  - B. Voltmeter
  - C. Ammeter
  - D. Wattmeter

Question ID : 630680440485  
Option 1 ID : 6306801719605  
Option 2 ID : 6306801719602  
Option 3 ID : 6306801719603  
Option 4 ID : 6306801719604  
Status : Answered  
Chosen Option : A

**Q.78** Which statement is INCORRECT with reference to the corona effect?

- Ans
- A. Corona increases the effects of transients produced by surges.
  - B. Corona is accompanied by a loss of energy.
  - C. Current drawn by the line due to corona is non-sinusoidal.
  - D. Ozone is produced by corona.

Question ID : 630680440524  
Option 1 ID : 6306801719759  
Option 2 ID : 6306801719758  
Option 3 ID : 6306801719761  
Option 4 ID : 6306801719760  
Status : Answered  
Chosen Option : A

**Q.79** A tri-vector meter is designed to record \_\_\_\_\_.

- Ans**
- A. active, reactive, and apparent energy along with MD
  - B. active energy
  - C. active and apparent energy
  - D. active and reactive energy

Question ID : **630680440490**  
Option 1 ID : **6306801719622**  
Option 2 ID : **6306801719625**  
Option 3 ID : **6306801719623**  
Option 4 ID : **6306801719624**  
Status : **Answered**  
Chosen Option : **A**

**Q.80** A current of 1 A is drawn by a filament of an electric bulb for 20 minutes. What is the amount of electric charge that flows through the circuit?

- Ans**
- A. 1200 C
  - B. 20 C
  - C. 600 C
  - D. 120 C

Question ID : **630680440396**  
Option 1 ID : **6306801719247**  
Option 2 ID : **6306801719246**  
Option 3 ID : **6306801719248**  
Option 4 ID : **6306801719249**  
Status : **Answered**  
Chosen Option : **A**

**Q.81** A 20 kVA, 5 kV, single-phase alternator has an exciting voltage of 6 kV and synchronous reactance of  $5 \Omega$ . What power would it deliver for a torque angle of  $30^\circ$ ?

- Ans**
- A. 6 MW
  - B. 1.5 MW
  - C. 9 MW
  - D. 3 MW

Question ID : **630680440481**  
Option 1 ID : **6306801719586**  
Option 2 ID : **6306801719589**  
Option 3 ID : **6306801719587**  
Option 4 ID : **6306801719588**  
Status : **Not Attempted and Marked For Review**  
Chosen Option : **--**

Q.82 What is the correct expression for total power in a three-phase reactive circuit?

- Ans
- ✓ A.  $P = \sqrt{3}V_L I_L \cos\phi$
  - ✗ B.  $P = 3V_L I_L \cos\phi$
  - ✗ C.  $P = V_L I_L$
  - ✗ D.  $P = V_L I_L \cos\phi$

Question ID : 630680440467

Option 1 ID : 6306801719532

Option 2 ID : 6306801719533

Option 3 ID : 6306801719530

Option 4 ID : 6306801719531

Status : Answered

Chosen Option : B

Q.83 An alternating voltage is expressed as  $v = V_m \sin\omega t$ . What is its amplitude?

- Ans
- ✓ A.  $V_m$
  - ✗ B.  $\frac{V_m}{\sqrt{2}}$
  - ✗ C.  $2V_m$
  - ✗ D.  $\frac{V_m}{2}$

Question ID : 630680440456

Option 1 ID : 6306801719489

Option 2 ID : 6306801719487

Option 3 ID : 6306801719486

Option 4 ID : 6306801719488

Status : Not Attempted and  
Marked For Review

Chosen Option : --

Q.84 In a transistor,  $I_C = 100$  mA and  $I_E = 100.5$  mA. What is the value of  $\beta$ ?

- Ans
- ✗ A. 100
  - ✓ B. 200
  - ✗ C. 20
  - ✗ D. 120

Question ID : 630680440519

Option 1 ID : 6306801719738

Option 2 ID : 6306801719739

Option 3 ID : 6306801719741

Option 4 ID : 6306801719740

Status : Answered

Chosen Option : B

**Q.85** Arrange the following substances in the ascending order of the electrical resistivity at 20°C.

- i) Silver
- ii) Manganin
- iii) Glass
- iv) Nickel

- Ans**
- A. Silver, nickel, manganin, glass
  - B. Glass, nickel, silver, manganin
  - C. Silver, manganin, nickel, glass
  - D. Glass, manganin, nickel, silver

Question ID : 630680440403  
Option 1 ID : 6306801719276  
Option 2 ID : 6306801719274  
Option 3 ID : 6306801719275  
Option 4 ID : 6306801719277  
Status : Answered  
Chosen Option : A

**Q.86** With the usual notations, which is the correct voltage equation of the DC motor?

- Ans**
- A.  $V = -E_b + I_a R_a$
  - B.  $V = -(E_b + I_a R_a)$
  - C.  $V = E_b - I_a R_a$
  - D.  $V = E_b + I_a R_a$

Question ID : 630680440447  
Option 1 ID : 6306801719452  
Option 2 ID : 6306801719453  
Option 3 ID : 6306801719451  
Option 4 ID : 6306801719450  
Status : Answered  
Chosen Option : C

**Q.87** Extrinsic semiconductors doped with \_\_\_\_\_ impurity are called p-type semiconductors.

- Ans**
- A. antimony
  - B. phosphorous
  - C. arsenic
  - D. aluminium

Question ID : 630680440402  
Option 1 ID : 6306801719271  
Option 2 ID : 6306801719273  
Option 3 ID : 6306801719270  
Option 4 ID : 6306801719272  
Status : Answered  
Chosen Option : D

**Q.88** Three resistances of resistance  $30\ \Omega$  each are connected in parallel across a  $6\ \text{V}$  battery. What is the equivalent resistance as seen by the source?

- Ans
- A.  $30\ \Omega$
  - B.  $90\ \Omega$
  - C.  $10\ \Omega$
  - D.  $5\ \Omega$

Question ID : 630680440406  
 Option 1 ID : 6306801719287  
 Option 2 ID : 6306801719288  
 Option 3 ID : 6306801719289  
 Option 4 ID : 6306801719286  
 Status : Answered  
 Chosen Option : C

**Q.89** How many parallel paths are present in a wave wound armature of a DC generator?

- Ans
- A. 4
  - B. As many as the number of pole pairs
  - C. 2
  - D. As many as the number of poles

Question ID : 630680440436  
 Option 1 ID : 6306801719409  
 Option 2 ID : 6306801719407  
 Option 3 ID : 6306801719406  
 Option 4 ID : 6306801719408  
 Status : Answered  
 Chosen Option : C

**Q.90** Electrical efficiency of a DC generator is defined as \_\_\_\_\_.

- Ans
- A.  $\frac{\text{Electrical power output}}{\text{Mechanical power input}}$
  - B.  $\frac{\text{Electrical power generated}}{\text{Mechanical power input}}$
  - C.  $\frac{\text{Electrical power generated}}{\text{Electrical power input}}$
  - D.  $\frac{\text{Electrical power output}}{\text{Electrical power generated}}$

Question ID : 630680440438  
 Option 1 ID : 6306801719415  
 Option 2 ID : 6306801719414  
 Option 3 ID : 6306801719417  
 Option 4 ID : 6306801719416  
 Status : Not Attempted and Marked For Review  
 Chosen Option : --

**Q.91** In an 8-pole DC generator, how many cycles of EMF are generated in one complete rotation of the armature?

- Ans  A. 16  
 B. 4  
 C. 2  
 D. 8

Question ID : 630680440531

Option 1 ID : 6306801719787

Option 2 ID : 6306801719788

Option 3 ID : 6306801719789

Option 4 ID : 6306801719786

Status : **Not Attempted and Marked For Review**

Chosen Option : --

**Q.92** 200 J of heat is produced each second in an 8  $\Omega$  resistance. What is the potential difference across the resistor?

- Ans  A. 60 V  
 B. 10 V  
 C. 40 V  
 D. 20 V

Question ID : 630680440407

Option 1 ID : 6306801719292

Option 2 ID : 6306801719293

Option 3 ID : 6306801719291

Option 4 ID : 6306801719290

Status : **Answered**

Chosen Option : C

**Q.93** What should be the speed of the prime mover driving a 6-pole alternator so that the frequency of EMF generated is 50 Hz?

- Ans  A. 1500 rpm  
 B. 1000 rpm  
 C. 500 rpm  
 D. 3000 rpm

Question ID : 630680440479

Option 1 ID : 6306801719578

Option 2 ID : 6306801719579

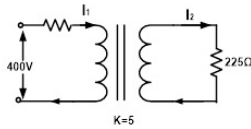
Option 3 ID : 6306801719580

Option 4 ID : 6306801719581

Status : **Answered**

Chosen Option : B

**Q.94** A single-phase 400V/2000 V transformer is connected as given in the figure below. What is the current  $I_1$ ?



- Ans
- A. 20 A
  - B. 40 A
  - C. 160 A
  - D. 80 A

Question ID : 630680440476

Option 1 ID : 6306801719568

Option 2 ID : 6306801719569

Option 3 ID : 6306801719566

Option 4 ID : 6306801719567

Status : Answered

Chosen Option : B

**Q.95** The electron and hole concentration in a semiconductor in thermal equilibrium is given by \_\_\_\_\_, where  $n_e$ ,  $n_h$  and  $n_i$  are the number of free electrons, the number of holes, and intrinsic carrier concentration, respectively.

- Ans
- A.  $n_e^2 n_h^2 = \sqrt{n_i}$
  - B.  $n_e^2 n_h^2 = n_i$
  - C.  $n_e n_h = n_i^2$
  - D.  $n_e n_h = n_i$

Question ID : 630680440401

Option 1 ID : 6306801719269

Option 2 ID : 6306801719268

Option 3 ID : 6306801719266

Option 4 ID : 6306801719267

Status : Answered

Chosen Option : C

**Q.96** A single phase 4440 V/220 V, 50 Hz transformer has a maximum flux of 0.04 Wb. What is the number of turns in the HV winding?

- Ans
- A. 400
  - B. 1000
  - C. 500
  - D. 600

Question ID : 630680440472

Option 1 ID : 6306801719552

Option 2 ID : 6306801719550

Option 3 ID : 6306801719551

Option 4 ID : 6306801719553

Status : Not Attempted and Marked For Review

Chosen Option : --

**Q.97** A 220 V, 50 Hz, single-phase energy meter has a constant of 1200 revolutions/kWh. What will the speed of the disc if the current is 10 A at a power factor of 0.8 lagging?

- Ans**
- A. 44 rpm
  - B. 22.4 rpm
  - C. 35.2 rpm
  - D. 66 rpm

Question ID : 630680440489  
Option 1 ID : 6306801719618  
Option 2 ID : 6306801719621  
Option 3 ID : 6306801719619  
Option 4 ID : 6306801719620  
Status : Answered  
Chosen Option : C

**Q.98** Three-phase stator currents flowing in the three-phase stator winding of a three-phase induction motor produces \_\_\_\_\_ magnetic field.

- Ans**
- A. a rotating
  - B. a pulsating
  - C. a steady
  - D. an alternating

Question ID : 630680440504  
Option 1 ID : 6306801719679  
Option 2 ID : 6306801719681  
Option 3 ID : 6306801719678  
Option 4 ID : 6306801719680  
Status : Answered  
Chosen Option : A

**Q.99** What is the counter emf induced in a 200 V, dc shunt motor if the percentage armature drop is 2%?

- Ans**
- A. 88 V
  - B. 196 V
  - C. 180 V
  - D. 192 V

Question ID : 630680440536  
Option 1 ID : 6306801719806  
Option 2 ID : 6306801719807  
Option 3 ID : 6306801719809  
Option 4 ID : 6306801719808  
Status : Answered  
Chosen Option : B



**Q.100** What is the average intensity of illumination on a surface if it is inclined at an angle of  $30^\circ$  to the light rays from a lamp of MSCP 100, placed 5 m away?

- Ans  A. 2 lux  
 B. 10 lux  
 C. 4 lux  
 D. 20 lux

Question ID : 630680440501  
Option 1 ID : 6306801719666  
Option 2 ID : 6306801719668  
Option 3 ID : 6306801719667  
Option 4 ID : 6306801719669  
Status : Answered  
Chosen Option : A

**Q.101** Which of the following statements is NOT correct with reference to the Buchholz relay used for protection of transformers?

- Ans  A. It is installed within the transformer main tank.  
 B. It provides protection against all kinds of incipient faults.  
 C. It is a gas actuated device.  
 D. It can be used only with oil immersed transformers.

Question ID : 630680440477  
Option 1 ID : 6306801719573  
Option 2 ID : 6306801719570  
Option 3 ID : 6306801719572  
Option 4 ID : 6306801719571  
Status : Answered  
Chosen Option : A

**Q.102** Magnetising force of 1000 AT/m is acting in an air gap of 0.1 mm length. What is the flux density produced?

- Ans  A.  $0.6\pi$  mWb  
 B.  $0.4\pi$  mWb  
 C.  $0.8\pi$  mWb  
 D.  $0.2\pi$  mWb

Question ID : 630680440428  
Option 1 ID : 6306801719375  
Option 2 ID : 6306801719376  
Option 3 ID : 6306801719377  
Option 4 ID : 6306801719374  
Status : Not Attempted and Marked For Review  
Chosen Option : --

**Q.103** The mechanical power developed by the synchronous motor is proportional to \_\_\_ where  $\delta$  is the torque angle.

- Ans
- A.  $\sin\delta$
  - B.  $\tan\delta$
  - C.  $\cos\delta$
  - D.  $\cot\delta$

Question ID : 630680440484

Option 1 ID : 6306801719598

Option 2 ID : 6306801719600

Option 3 ID : 6306801719599

Option 4 ID : 6306801719601

Status : Not Attempted and Marked For Review

Chosen Option : --

**Q.104** For a common collector configuration, which is the correct expression for the current amplification factor?

- Ans
- A.  $\gamma = \frac{\Delta I_E}{\Delta I_C}$
  - B.  $\gamma = \frac{\Delta I_C}{\Delta I_B}$
  - C.  $\gamma = \frac{\Delta I_C}{\Delta I_E}$
  - D.  $\gamma = \frac{\Delta I_E}{\Delta I_B}$

Question ID : 630680440520

Option 1 ID : 6306801719745

Option 2 ID : 6306801719743

Option 3 ID : 6306801719744

Option 4 ID : 6306801719742

Status : Answered

Chosen Option : D

**Q.105** The external characteristic of a DC shunt generator gives the relation between \_\_\_\_\_.

- Ans
- A. terminal voltage and armature current
  - B. terminal voltage and field current
  - C. terminal voltage and load current
  - D. generated voltage and load current

Question ID : 630680440442

Option 1 ID : 6306801719430

Option 2 ID : 6306801719431

Option 3 ID : 6306801719433

Option 4 ID : 6306801719432

Status : Answered

Chosen Option : C

**Q.106** In which lighting scheme, 60%—90% of the total light is thrown upwards to the ceiling for diffuse reflection and the rest reaches the working plane directly?

- Ans  A. Semi-indirect lighting  
 B. Direct lighting  
 C. Indirect lighting  
 D. Semi-direct lighting

Question ID : 630680440503  
Option 1 ID : 6306801719675  
Option 2 ID : 6306801719674  
Option 3 ID : 6306801719677  
Option 4 ID : 6306801719676  
Status : Answered  
Chosen Option : A

**Q.107** The electric field and electric potential at a point due to a point charge is 50 N/C and 25 J/C. What is the distance of the point from the charge?

- Ans  A. 5 m  
 B. 0.5 m  
 C. 0.2 m  
 D. 2 m

Question ID : 630680440530  
Option 1 ID : 6306801719784  
Option 2 ID : 6306801719782  
Option 3 ID : 6306801719785  
Option 4 ID : 6306801719783  
Status : Answered  
Chosen Option : D

**Q.108** Which junction diode acts like a variable capacitor under changing reverse bias?

- Ans  A. Shockley diode  
 B. Tunnel diode  
 C. Photo diode  
 D. Varactor diode

Question ID : 630680440518  
Option 1 ID : 6306801719737  
Option 2 ID : 6306801719734  
Option 3 ID : 6306801719735  
Option 4 ID : 6306801719736  
Status : Answered  
Chosen Option : D

Q.109 During electrolysis, the mass of an element deposited due to the passage of current is \_\_\_\_\_.

- Ans
- A. directly proportional to the valency
  - B. inversely proportional to the electro-chemical equivalent
  - C. directly proportional to the electro-chemical equivalent
  - D. inversely proportional to the atomic weight

Question ID : 630680440417  
Option 1 ID : 6306801719333  
Option 2 ID : 6306801719330  
Option 3 ID : 6306801719332  
Option 4 ID : 6306801719331  
Status : Answered  
Chosen Option : C

Q.110 The deflection sensitivity of a cathode ray tube is 0.4 mm/V. What is its deflection factor?

- Ans
- A. 0.4
  - B. 4
  - C. 0.25
  - D. 2.5

Question ID : 630680440493  
Option 1 ID : 6306801719637  
Option 2 ID : 6306801719634  
Option 3 ID : 6306801719636  
Option 4 ID : 6306801719635  
Status : Answered  
Chosen Option : A

Q.111 Which of the following does NOT correct the armature reaction effect?

- Ans
- A. Compensating winding
  - B. Brush hanger mechanism to locate the correct neutral zone
  - C. Interpoles
  - D. Wave winding

Question ID : 630680440441  
Option 1 ID : 6306801719428  
Option 2 ID : 6306801719429  
Option 3 ID : 6306801719426  
Option 4 ID : 6306801719427  
Status : Answered  
Chosen Option : D

Q.112 Which statement is correct with reference to a magnetic circuit?

Ans  A.

The flux produced by the given MMF is larger when there is an air gap.

B.

The reluctance of the iron path is much greater than the reluctance of the air gap.

C.

The reluctance of the iron path is much lesser than the reluctance of the air gap.

D.

An air gap in the flux path results in decrease in the reluctance.

Question ID : 630680440429

Option 1 ID : 6306801719380

Option 2 ID : 6306801719379

Option 3 ID : 6306801719381

Option 4 ID : 6306801719378

Status : Answered

Chosen Option : B

Q.113 A separately excited DC generator gives a load voltage of 200 V, while taking a line current of 20 A. What is the generated voltage if the armature resistance is 0.5  $\Omega$ ?

Ans  A. 210 V

B. 220 V

C. 200 V

D. 190 V

Question ID : 630680440437

Option 1 ID : 6306801719410

Option 2 ID : 6306801719411

Option 3 ID : 6306801719413

Option 4 ID : 6306801719412

Status : Answered

Chosen Option : A

Q.114 Which of the following statements is NOT true with reference to the construction of alternators?

Ans  A.

Non-salient type of construction has mechanical robustness.

B. Salient pole construction cannot be made strong.

C. The salient poles would cause an excessive windage loss.

D.

Non-salient pole types produce noise when driven at high speeds.

Question ID : 630680440480

Option 1 ID : 6306801719583

Option 2 ID : 6306801719584

Option 3 ID : 6306801719582

Option 4 ID : 6306801719585

Status : Answered

Chosen Option : D

**Q.115** A DC shunt generator delivers an armature current of 22 A on full load with a terminal voltage of 200 V. If the field current is 2 A, what is the load power?

- Ans  A. 400 W  
 B. 4 kW  
 C. 4.4 kW  
 D. 2 kW

Question ID : 630680440440  
Option 1 ID : 6306801719424  
Option 2 ID : 6306801719422  
Option 3 ID : 6306801719423  
Option 4 ID : 6306801719425  
Status : Answered  
Chosen Option : B

**Q.116** A universal motor operates satisfactorily with \_\_\_\_\_ supply.

- Ans  A. square wave  
 B. only AC  
 C. both DC and AC  
 D. only DC

Question ID : 630680440515  
Option 1 ID : 6306801719724  
Option 2 ID : 6306801719723  
Option 3 ID : 6306801719725  
Option 4 ID : 6306801719722  
Status : Answered  
Chosen Option : C

**Q.117** What is the charge possessed by one electron?

- Ans  A.  $-1.6 \times 10^{-19} C$   
 B.  $-1.6 \times 10^{-16} C$   
 C.  $-1.6 \times 10^{-18} C$   
 D.  $-1.6 \times 10^{-20} C$

Question ID : 630680440395  
Option 1 ID : 6306801719243  
Option 2 ID : 6306801719244  
Option 3 ID : 6306801719242  
Option 4 ID : 6306801719245  
Status : Answered  
Chosen Option : A

**Q.118** Which method can be used to control the speed of a DC series motor above the normal speed?

- i) Field diverter method
- ii) Armature diverter method
- iii) Tapped field control

**Ans**  A. All the three  
 B. Only i and iii  
 C. Only ii  
 D. Only iii

Question ID : 630680440533  
Option 1 ID : 6306801719794  
Option 2 ID : 6306801719796  
Option 3 ID : 6306801719797  
Option 4 ID : 6306801719795  
Status : Not Attempted and Marked For Review  
Chosen Option : --

**Q.119** Two resistances of resistance  $20\ \Omega$  and  $10\ \Omega$  are connected in series across a 6 V battery. What will be the potential difference across a  $10\ \Omega$  resistor?

**Ans**  A. 2 V  
 B. 10 V  
 C. 5 V  
 D. 1 V

Question ID : 630680440405  
Option 1 ID : 6306801719282  
Option 2 ID : 6306801719283  
Option 3 ID : 6306801719284  
Option 4 ID : 6306801719285  
Status : Answered  
Chosen Option : B

**Q.120** Which of the following is a resettable electrical switch used in domestic panel that automatically breaks the circuit during any abnormal condition?

**Ans**  A. Miniature circuit breaker  
 B. Major circuit breaker  
 C. Minor circuit breaker  
 D. Mini circuit breaker

Question ID : 630680440415  
Option 1 ID : 6306801719323  
Option 2 ID : 6306801719325  
Option 3 ID : 6306801719324  
Option 4 ID : 6306801719322  
Status : Answered  
Chosen Option : A

**Q.121** A 240 V AC supply is connected to an unearthed apparatus of resistance 60 ohms. Assume that the defective insulation of cable makes the metal body live. Now, if a person of resistance 1000  $\Omega$  touches the metal body, what leakage current will flow through him?

- Ans**  A. 240 mA  
 B. 24 mA  
 C. 4 A  
 D. 4 mA

Question ID : 630680440517

Option 1 ID : 6306801719730

Option 2 ID : 6306801719731

Option 3 ID : 6306801719732

Option 4 ID : 6306801719733

Status : **Not Attempted and Marked For Review**

Chosen Option : --

**Q.122** Under what condition, the starting torque of a three-phase induction motor is maximum?

- Ans**  A.  
 When rotor resistance/phase is equal to the standstill rotor reactance/phase  
 B.  
 When rotor resistance/phase is equal to reciprocal of the square of the standstill rotor reactance/phase.  
 C.  
 When rotor resistance/phase is equal to square of the standstill rotor reactance/phase  
 D.  
 When rotor resistance/phase is equal to reciprocal of the standstill rotor reactance/phase

Question ID : 630680440509

Option 1 ID : 6306801719698

Option 2 ID : 6306801719701

Option 3 ID : 6306801719699

Option 4 ID : 6306801719700

Status : **Answered**

Chosen Option : A

**Q.123** Which of the following is the correct expression for a diamagnetic material?

- Ans**  A.  $\mu = 0$   
 B.  $\mu < \mu_0$   
 C.  $\mu > \mu_0$   
 D.  $\mu = \mu_0$

Question ID : 630680440422

Option 1 ID : 6306801719352

Option 2 ID : 6306801719351

Option 3 ID : 6306801719353

Option 4 ID : 6306801719350

Status : **Not Attempted and Marked For Review**

Chosen Option : --



**Q.124** A 200 V shunt motor takes a line current of 22 A at a certain load. If the field and armature resistances are 100  $\Omega$  and 0.5  $\Omega$ , respectively, what is the gross mechanical power developed?

- Ans
- A. 4.6 kW
  - B. 4.4 kW
  - C. 3.8 kW
  - D. 4 kW

Question ID : 630680440448  
Option 1 ID : 6306801719457  
Option 2 ID : 6306801719454  
Option 3 ID : 6306801719456  
Option 4 ID : 6306801719455  
Status : Answered  
Chosen Option : B

**Q.125** Which of the following is the NOT the effect of armature reaction?

- Ans
- A. Poor commutation
  - B. Distortion of main flux
  - C. No saturation
  - D. Decrease in main flux

Question ID : 630680440444  
Option 1 ID : 6306801719438  
Option 2 ID : 6306801719440  
Option 3 ID : 6306801719441  
Option 4 ID : 6306801719439  
Status : Answered  
Chosen Option : A

**Q.126** Semi-enclosed rewirable fuses that are commonly used in domestic and lighting loads, are made up to \_\_\_\_\_ of the rated current.

- Ans
- A. 50 A
  - B. 250 A
  - C. 150 A
  - D. 500 A

Question ID : 630680440525  
Option 1 ID : 6306801719762  
Option 2 ID : 6306801719765  
Option 3 ID : 6306801719763  
Option 4 ID : 6306801719764  
Status : Answered  
Chosen Option : D

**Q.127** Neglecting the stator loss and the mechanical loss efficiency of a three-phase induction motor can be expressed in terms of slip(s) as: \_\_\_\_\_

- Ans**
- A.  $(1 - s)$
  - B.  $1/s$
  - C.  $(s - 1)$
  - D.  $1/s^2$

Question ID : **630680440512**

Option 1 ID : **6306801719710**

Option 2 ID : **6306801719712**

Option 3 ID : **6306801719711**

Option 4 ID : **6306801719713**

Status : **Answered**

Chosen Option : **A**

**Q.128** What is the ratio  $\frac{\text{air gap power}}{\text{mechanical power developed}}$  in terms of the rotor speed (N) and the synchronous speed ( $N_s$ ) in a three-phase induction motor?

- Ans**
- A.  $N - N_s$
  - B.  $\frac{N}{N_s}$
  - C.  $\frac{N_s}{N}$
  - D.  $N_s - N$

Question ID : **630680440510**

Option 1 ID : **6306801719705**

Option 2 ID : **6306801719702**

Option 3 ID : **6306801719703**

Option 4 ID : **6306801719704**

Status : **Not Attempted and Marked For Review**

Chosen Option : **--**

**Q.129** Which of the following is NOT a desirable property of an insulating material?

- Ans**
- A. Non-inflammable
  - B. High mechanical strength
  - C. High insulation resistance
  - D. Hygroscopic

Question ID : **630680440452**

Option 1 ID : **6306801719473**

Option 2 ID : **6306801719471**

Option 3 ID : **6306801719470**

Option 4 ID : **6306801719472**

Status : **Answered**

Chosen Option : **D**

Q.130 In which part of the DC generator is EMF induced?

- Ans  A. Armature winding  
 B. Field winding  
 C. Armature core  
 D. Commutator

Question ID : 630680440445  
Option 1 ID : 6306801719442  
Option 2 ID : 6306801719443  
Option 3 ID : 6306801719445  
Option 4 ID : 6306801719444  
Status : Answered  
Chosen Option : A

Q.131 A bruise caused when the knee of a player is knocked against the thigh of another person is called \_\_\_\_\_.

- Ans  A. abrasion  
 B. contusion  
 C. laceration  
 D. avulsion

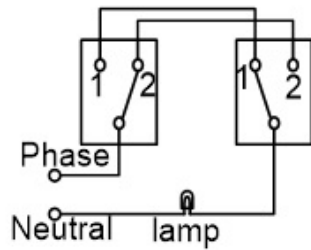
Question ID : 630680440391  
Option 1 ID : 6306801719227  
Option 2 ID : 6306801719226  
Option 3 ID : 6306801719229  
Option 4 ID : 6306801719228  
Status : Answered  
Chosen Option : B

Q.132 A wire of given material having length  $l$  and area of cross-section  $A$  has a resistance of  $10\ \Omega$ . What would be the resistance of another wire of the same material having length  $2l$  and area of cross-section  $A/2$ ?

- Ans  A.  $40\ \Omega$   
 B.  $10\ \Omega$   
 C.  $5\ \Omega$   
 D.  $20\ \Omega$

Question ID : 630680440404  
Option 1 ID : 6306801719279  
Option 2 ID : 6306801719278  
Option 3 ID : 6306801719281  
Option 4 ID : 6306801719280  
Status : Answered  
Chosen Option : A

Q.133 What does the circuit below represent?



- Ans  A. Two-way switching - two wire control  
 B. One-way switching  
 C. Three-way switching  
 D. Two-way switching - three wire control

Question ID : 630680440413

Option 1 ID : 6306801719315

Option 2 ID : 6306801719314

Option 3 ID : 6306801719316

Option 4 ID : 6306801719317

Status : Answered

Chosen Option : A

Q.134 A DC series motor operates at 1000 rpm with a line current of 50 A from 200 V mains. If the total resistance of armature and field circuit is  $1 \Omega$ , at what speed will it run when the line current is 25 A?

- Ans  A. 583.3 rpm  
 B. 1000 rpm  
 C. 2333.3 rpm  
 D. 1166.6 rpm

Question ID : 630680440449

Option 1 ID : 6306801719460

Option 2 ID : 6306801719461

Option 3 ID : 6306801719458

Option 4 ID : 6306801719459

Status : Not Attempted and  
Marked For Review

Chosen Option : --

Q.135 In a transistor which region is most heavily doped?

- Ans  A. emitter  
 B. collector  
 C. Both emitter and collector  
 D. base

Question ID : 630680440534

Option 1 ID : 6306801719798

Option 2 ID : 6306801719800

Option 3 ID : 6306801719801

Option 4 ID : 6306801719799

Status : Answered

Chosen Option : A

Q.136 Which of the following is NOT an advantage of conduit wiring?

- Ans  A. Easily customisable for future use  
 B. Safety  
 C. No risk of fire  
 D. Better appearance

Question ID : 630680440414  
Option 1 ID : 6306801719321  
Option 2 ID : 6306801719318  
Option 3 ID : 6306801719320  
Option 4 ID : 6306801719319  
Status : Answered  
Chosen Option : A

Q.137 A 500 W lamp having MSCP of 1000 is suspended 2 m above the working plane. What is the illumination produced directly under the lamp?

- Ans  A. 500 lux  
 B. 1000 lux  
 C. 250 lux  
 D. 2000 lux

Question ID : 630680440498  
Option 1 ID : 6306801719654  
Option 2 ID : 6306801719656  
Option 3 ID : 6306801719655  
Option 4 ID : 6306801719657  
Status : Answered  
Chosen Option : A

Q.138 A current transformer is used to measure \_\_\_\_\_ in a power system.

- Ans  A. high DC current  
 B. low DC current  
 C. high AC current  
 D. low AC current

Question ID : 630680440469  
Option 1 ID : 6306801719539  
Option 2 ID : 6306801719541  
Option 3 ID : 6306801719538  
Option 4 ID : 6306801719540  
Status : Answered  
Chosen Option : C

**Q.139** In a two-winding transformer, loss component of no-load current  $I_L$  can be expressed in terms of no load current  $I_0$  and the no load power factor angle  $\phi_0$  as \_\_\_\_\_.

Ans

A.  $I_L = \frac{I_0}{\sin\phi_0}$

B.  $I_L = I_0 \cos\phi_0$

C.  $I_L = I_0 \sin\phi_0$

D.  $I_L = \frac{I_0}{\cos\phi_0}$

Question ID : 630680440471

Option 1 ID : 6306801719549

Option 2 ID : 6306801719546

Option 3 ID : 6306801719548

Option 4 ID : 6306801719547

Status : **Not Attempted and Marked For Review**

Chosen Option : --

**Q.140** What is the synchronous speed of a three-phase induction motor having 8 poles and connected to a 40 Hz AC supply?

Ans

A. 500 rpm

B. 600 rpm

C. 1000 rpm

D. 1200 rpm

Question ID : 630680440505

Option 1 ID : 6306801719685

Option 2 ID : 6306801719682

Option 3 ID : 6306801719684

Option 4 ID : 6306801719683

Status : **Answered**

Chosen Option : **B**

**Q.141** How much work is done in moving a charge of 5 C across two points having a potential difference of 10 V?

Ans

A. 0.5 J

B. 50 J

C. 10 J

D. 2 J

Question ID : 630680440392

Option 1 ID : 6306801719231

Option 2 ID : 6306801719233

Option 3 ID : 6306801719230

Option 4 ID : 6306801719232

Status : **Not Attempted and Marked For Review**

Chosen Option : --

**Q.142** What is the leading kVAR required to be supplied by a synchronous condenser in order to improve the power factor of a 200 kW load from 0.5 lagging to unity?

- Ans
- A. 100 kVAR
  - B.  $100\sqrt{3}$  kVAR
  - C.  $200\sqrt{3}$  kVAR
  - D. 200 kVAR

Question ID : 630680440483

Option 1 ID : 6306801719597

Option 2 ID : 6306801719596

Option 3 ID : 6306801719594

Option 4 ID : 6306801719595

Status : Not Attempted and  
Marked For Review

Chosen Option : --

**Q.143** What is the approximate wattage rating of a 61 cm long fluorescent tube?

- Ans
- A. 15
  - B. 25
  - C. 40
  - D. 20

Question ID : 630680440499

Option 1 ID : 6306801719658

Option 2 ID : 6306801719660

Option 3 ID : 6306801719659

Option 4 ID : 6306801719661

Status : Answered

Chosen Option : C

**Q.144** Which of the following power electronic circuit is NOT necessary for the speed control of a DC motor from the normal 50 Hz AC supply?

- Ans
- A. Fully-controlled bridge rectifier
  - B. Fully-controlled rectifier with mid- point configuration
  - C. Semi-controlled converter
  - D. Full bridge inverter

Question ID : 630680440526

Option 1 ID : 6306801719766

Option 2 ID : 6306801719767

Option 3 ID : 6306801719768

Option 4 ID : 6306801719769

Status : Answered

Chosen Option : D

Q.145 Which of the following statements is correct for a three-phase induction motor?

Ans  A.

Slip ring rotor does not allow inclusion of external resistance.

- B. Squirrel cage rotor has bar conductors.
- C. Squirrel cage rotor is not permanently closed.
- D. Squirrel cage rotor is weaker than the slip ring.

Question ID : 630680440511

Option 1 ID : 6306801719707

Option 2 ID : 6306801719706

Option 3 ID : 6306801719709

Option 4 ID : 6306801719708

Status : Answered

Chosen Option : B

Q.146 Which of the following statements is correct for a sinusoidal voltage or current?

Ans

- A. Form factor =  $\frac{\text{average value}}{\text{RMS value}}$
- B. Form factor =  $\frac{\text{maximum value}}{\text{RMS value}}$
- C. Form factor =  $\frac{\text{RMS value}}{\text{maximum value}}$
- D. Form factor =  $\frac{\text{RMS value}}{\text{average value}}$

Question ID : 630680440458

Option 1 ID : 6306801719494

Option 2 ID : 6306801719495

Option 3 ID : 6306801719497

Option 4 ID : 6306801719496

Status : Answered

Chosen Option : D

Q.147 A PMMC ammeter has a coil of 20 turns on a rectangular former of  $3\text{ cm} \times 1\text{ cm}$  and operates with a uniform field of  $0.1\text{ Wb/m}^2$ . What will be the deflecting torque when 50 mA current flows through the coil?

- Ans  A.  $100 \times 10^{-7}\text{ Nm}$
- B.  $3 \times 10^{-5}\text{ Nm}$
- C.  $30 \times 10^{-7}\text{ Nm}$
- D.  $10 \times 10^{-7}\text{ Nm}$

Question ID : 630680440488

Option 1 ID : 6306801719614

Option 2 ID : 6306801719616

Option 3 ID : 6306801719615

Option 4 ID : 6306801719617

Status : Not Attempted and Marked For Review

Chosen Option : --



Q.148 Identify the scalar quantity among the given physical quantities.

- i) Magnetic flux
- ii) Magnetic moment
- iii) Magnetic field strength
- iv) Magnetic flux density

Ans  A. (ii), (iii) and (iv)  
 B. Both (ii) and (iii)  
 C. Only (i)  
 D. Only (iii)

Question ID : 630680440423  
Option 1 ID : 6306801719357  
Option 2 ID : 6306801719356  
Option 3 ID : 6306801719355  
Option 4 ID : 6306801719354  
Status : Answered  
Chosen Option : C

Q.149 A 200 V DC shunt motor takes a total current of 101 A at full load. The field and armature resistances are 200  $\Omega$  and 0.2  $\Omega$ , respectively. What is the total copper loss?

Ans  A. 1800 W  
 B. 2400 W  
 C. 2000 W  
 D. 2200 W

Question ID : 630680440450  
Option 1 ID : 6306801719462  
Option 2 ID : 6306801719465  
Option 3 ID : 6306801719463  
Option 4 ID : 6306801719464  
Status : Answered  
Chosen Option : D

Q.150 A workshop space of 1000 m<sup>2</sup> is to be illuminated with an average illumination of 100 lux. Utilisation factor and maintenance factors are 0.5 and 0.8, respectively. If lamps having luminous efficiency of 25 lumen/W are used, what is the total wattage needed?

Ans  A. 2000 kW  
 B. 1000 W  
 C. 20,000 W  
 D. 10,000 W

Question ID : 630680440502  
Option 1 ID : 6306801719673  
Option 2 ID : 6306801719670  
Option 3 ID : 6306801719672  
Option 4 ID : 6306801719671  
Status : Answered  
Chosen Option : D