





Section · General English

Q.1 Sentences of a paragraph are given below in jumbled order. Select the option that arranges the sentences in the correct order to form a meaningful and coherent paragraph.

A. Deadlines are missed and the work flow is inefficient and of poor quality.

B. As a result, your stress level shoots up.

C. Failing to manage your time effectively can have very undesirable consequences.

D. It dents your reputation as a professional and your career is in danger of being stalled.

Ans

X 1. ACBD

2. CADB

X 3. CBDA

X 4. ABDC

Question ID: 630680244177

Option 1 ID: 630680947050

Option 2 ID: 630680947049

Option 3 ID: 630680947048

Option 4 ID: 630680947047

Status : Answered



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- Q.2 Sentences of a paragraph are given below in jumbled order. Select the option that arranges the sentences in the correct order to form a meaningful and coherent paragraph.
 - A. But since we all get the same 24 hours, why is it that some people achieve so much more in their time than others?
 - B. That means how much time you plan to spend on specific activities.
 - C. The answer lies in time management.
 - D. It seems that there is never enough time in the day.

Ans

✓ 1. DACB

X 2. ACDB

X 3. ABDC

X 4. DBCA

Question ID: 630680244176 Option 1 ID: 630680947043 Option 2 ID: 630680947045 Option 3 ID: 630680947046

Option 4 ID: 630680947044 Status: Answered

Chosen Option: 2

Q.3 Select the most appropriate ANTONYM of the bracketed word in the following sentence to fill in the blank.

The Parliament complex is lined with ______ trees, herbs, and flowers. (Foreign)

Ans X 1. extraneous

X 2. extrinsic

3. indigenous

X 4. incongruous

Question ID: 630680244175

Option 1 ID: 630680947039

Option 2 ID: 630680947041

Option 3 ID: 630680947040

Option 4 ID: 630680947042 Status: Answered





Q.4 Select the most appropriate option to fill in the blank. She is fully conversant _____ the new technology in place. Ans X 1. in X 2. for 3. with X 4. of Question ID: 630680244173 Option 1 ID: 630680947031 Option 2 ID: 630680947034 Option 3 ID: 630680947033 Option 4 ID: 630680947032 Status: Answered Chosen Option: 2 Q.5 Select the most appropriate synonym of the bracketed word in the following sentence to fill in the blank. There is a growing body of research that indicates that social media use can have a negative impact on mental health. (Undue) Ans X 1. frequent X 2. eternal X 3. regular 4. excessive Question ID: 630680244174 Option 1 ID: 630680947037 Option 2 ID: 630680947038 Option 3 ID: 630680947036 Option 4 ID: 630680947035 Status: Answered Chosen Option: 4 Section: Reasoning





Q.1 Mahima correctly remembers that her mother's birthday is after 19th May but before 23rd May. Her brother correctly remembers that their mother's birthday is before 24th May but after 21st May. On which date in May was definitely their mother's birthday?

Ans

× 1 24th May

X 2. 21st May

X 3. 23rd May

√ 4. 22nd May

Question ID: 630680244178 Option 1 ID: 630680947054 Option 2 ID: 630680947052 Option 3 ID: 630680947053 Option 4 ID: 630680947051

Status : Answered





Study the given pie chart carefully and answer the question that follows.

(Data is in degrees)



If the total sales of shop B in March is ₹2,40,000, what would be the sales of purses in March for Shop B?

Ans × 1. ₹24,016

× 2. ₹28,000

× 3. ₹23,999

√ 4. ₹24,000

Question ID: 630680244187

Option 1 ID: 630680947087

Option 2 ID: 630680947090

Option 3 ID: 630680947088

Option 4 ID: 630680947089

Status : **Answered**





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

DGT, HZZ, LTF, POL,?

Ans X 1. TKS

X 2. UKR

√ 3. TKR

X 4. TLR

Question ID: 630680244181

Option 1 ID: 630680947063 Option 2 ID: 630680947066

Option 3 ID: 630680947064 Option 4 ID: 630680947065

Status: Answered







- Q.4 Read the following information carefully.
 - · Sachin is taller than Sauray and Rahul.
 - · Rahul is shorter than Raja and Govind.
 - Bipin is taller than Raja and shorter than Sachin.
 - Sachin is shorter than Govind.
 - Rahul is taller than Saurav.

Who among the following is the shortest?

Ans

✓ 1. Saurav

X 2. Govind

X 3. Sachin

🗙 4. Raja

Question ID: 630680244179

Option 1 ID : 630680947058

Option 2 ID : 630680947055

Option 3 ID : 630680947057 Option 4 ID : 630680947056

Status : Answered





Q.5 In a certain code language 'MARVEL' is coded as BNWSMF. How will 'THEORY' be coded in the same language?

Ans X 1. IUPFSZ

X 2. IUFPSZ

X 4. IUFPZS

Question ID: 630680244183 Option 1 ID: 630680947073 Option 2 ID: 630680947074

Option 3 ID : **630680947071**Option 4 ID : **630680947072**

Status : Answered

Chosen Option: 3

Q.6 Select the number from among the given options that can replace the question mark (?) in the following series.

23, 47, 95,191,?

Ans X 1. 432

× 2. 338

√ 3. 383

X 4. 234

Question ID : 630680244186

Option 1 ID : 630680947084

Option 2 ID : 630680947085 Option 3 ID : 630680947086

Option 4 ID: 630680947083

Status : Answered





Q.7 Select the number from among the given options that can replace the question mark (?) in the following series.

37, 53, 85, 133,?

Ans X 1. 230

√ 2. 197

X 3. 217

× 4. 269

Question ID: 630680244185

Option 1 ID: 630680947080 Option 2 ID: 630680947081 Option 3 ID: 630680947079

Option 4 ID: 630680947082 Status : **Answered**







Q.8 A question is given, followed by two statements labelled I and II. Identify which of the statements is/are sufficient/necessary to answer the question.

Question:

How is Ram related to Monika?

Statements:

- I. Monika is the mother of Shreya and the wife of Gagan.
- II. Ram is the brother of Hema and the father of Dev.

Ans



Both statements I and II together are not sufficient to answer the question

X 2

Statement II alone is sufficient to answer the question, while statement I alone is not sufficient to answer the question



Statement I alone is sufficient to answer the question, while statement II alone is not sufficient to answer the question

X 4

Either statement I alone or statement II alone is sufficient to answer the question

Question ID: 630680244184 Option 1 ID: 630680947078 Option 2 ID: 630680947076 Option 3 ID: 630680947075 Option 4 ID: 630680947077

Status : **Answered** Chosen Option : **1**

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Q.9 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

CXG, EUL, GRQ, IOV,?

Ans X 1. KLB

X 2. JLA

X 3. KMA

Question ID: 630680244180

Option 1 ID: 630680947060

Option 2 ID: 630680947062 Option 3 ID: 630680947059

Option 4 ID: 630680947061

Status: Answered

Chosen Option: 4

Q.10 In a certain code language 'EXAMINE' is coded as BYFNFOJ. How will 'IMAGINE' be coded in the same language?

✓ 1. BNJHFOJ

X 2. BNJFHOJ

X 3. BJNHFOJ

X 4. BNJHFJO

Question ID: 630680244182

Option 1 ID: 630680947068

Option 2 ID: 630680947067

Option 3 ID: 630680947069

Option 4 ID: 630680947070

Status: Answered

Chosen Option: 1

Section: Quantitative Aptitude



Q.1 A man travels from A to B at a speed of 40 km/h and then from B to C at 60 km/h, where B is between A and C. The ratio of distances AB and BC is 2:3. He travels back from C to A at x km/h. If his average speed for the whole journey

is $61\frac{7}{13}$ km/h, then what is the value of x?

Ans X 1. 75

X 2. 65

√ 3. 80

× 4. 70

Question ID: 630680244188

Option 1 ID: 630680947093

Option 2 ID: 630680947091

Option 3 ID: 630680947094 Option 4 ID: 630680947092

Status: Answered

Chosen Option: 2

Q.2 In a certain race, A beats B by 35 seconds and B beats C by 45 seconds. The speed of B is the average of the speeds of A and C. What time (in minutes) does C take to run the race?

Ans X 1. 5

 \times 2. $5\frac{1}{3}$

 \times 4. $6\frac{1}{2}$

Question ID: 630680244195

Option 1 ID: 630680947119

Option 2 ID: 630680947120

Option 3 ID: 630680947122

Option 4 ID: 630680947121

Status: Answered



Q.3 A, B and C can do a certain work in 40 days, 60 days, and 100 days, respectively. In how many days will the work be completed, if A is assisted by B and C together on every third day?

Ans

$$\times$$
 2. $28\frac{7}{30}$

$$\times$$
 3. $29\frac{31}{61}$

$$\times$$
 4. $28\frac{7}{17}$

Question ID: 630680244197

Option 1 ID: 630680947130 Option 2 ID: 630680947129 Option 3 ID: 630680947127 Option 4 ID: 630680947128

Status: Answered

Chosen Option: 3

Q.4 The speed of a boat in still water is 15 km/h and it takes $1\frac{3}{4}$ hours to travel 10 km upstream and 15 km downstream. How much time (in hours) will the boat take to travel 15 km upstream and 30 km downstream?

Δns

Question ID: 630680244193

Option 1 ID : **630680947111** Option 2 ID : **630680947114**

Option 3 ID : **630680947112** Option 4 ID : **630680947113**

Status : Answered





Q.5 P and Q run a race of x metres. P gives Q a head start of 250 m. P is $2\frac{2}{3}$ times as fast as Q and both finished the race simultaneously. What is the value of x?

Ans

√ 1 400

X 2. 420

X 3. 440

X 4. 480

Question ID: 630680244194

Option 1 ID: 630680947116

Option 2 ID : **630680947117** Option 3 ID : **630680947118**

Option 4 ID: 630680947115

Status : **Answered** Chosen Option : **3**

Q.6 The price of an item is successively increased by 20% and 30%, and then decreased successively by 15% and 25%. If the difference between the final price and the original price of the item is ₹17.60, then the original price of the item is:

Δn

× 1. ₹4,200

× 2. ₹3,000

√ 3. ₹3,200

× 4. ₹3,500

Question ID: 630680244189

Option 1 ID: 630680947098

Option 2 ID: 630680947095

Option 3 ID: 630680947096

Option 4 ID: 630680947097

Status: Answered





When an article is sold at $\frac{33}{40}$ of its actual selling price, there is a loss of 25%. If it is sold at 32% above its actual selling price, then the profit percentage is:

Ans X 1. 18%

X 2. 30%

X 3. 25%

√ 4. 20%

Question ID: 630680244190

Option 1 ID: 630680947099

Option 2 ID: 630680947102

Option 3 ID: 630680947101

Option 4 ID: 630680947100

Status: Answered

Chosen Option: 3

Q.8 Pipes A and B can fill a tank in 12 hours and 20 hours, respectively. Pipe C is an emptying pipe. If A, B and C are opened together for 8 hours, then 80% of tank is filled. Initially, pipe B is opened for 4 hours and then closed. Pipes A and C together will fill the remaining part of the tank in (in hours):

Ans X 1. 15

√ 2. 16

X 3. 12

X 4. 18

Question ID: 630680244196

Option 1 ID: 630680947124

Option 2 ID: 630680947125

Option 3 ID: 630680947123

Option 4 ID: 630680947126

Status: Answered





Q.9 The total income of X, Y, and Z is ₹75,000. The ratio of X's income to the combined income of Y and Z is 3 : 7 and the ratio of Y's income to the combined income of X and Z is 4 : 11. What is the income (in ₹) of Z?

Ans

X 1. 22,500

× 2. 30,000

✓ 3. 32,500

× 4. 25,000

Question ID: 630680244192

Option 1 ID: 630680947107

Option 2 ID: 630680947109

Option 3 ID: 630680947110

Option 4 ID : **630680947108**Status : **Answered**

Chosen Option: 3

Q.10 An article is sold for ₹1,955, after giving two successive discounts of 15% and 20% on its marked price. If no discount is given on the marked price, then there is a gain of 25%. The cost price (in ₹) of the article is:

Ans

1. 2,300

× 2. 2,100

× 3. 2,500

× 4. 2,000

Question ID: 630680244191

Option 1 ID: 630680947105

Option 2 ID: 630680947104

Option 3 ID: 630680947106

Option 4 ID: 630680947103

Status : Answered

Chosen Option: 1

Section : Electrical Engineering





Q.1 The voltage applied and current flowing in a circuit is $V = 100 \sin(\omega t + 30^{\circ})$ and $i = 20 \sin(\omega t + 60^{\circ})$. Determine the power and power factor in the circuit.

Ans X 1. 173200 W, 0.866 leading

× 3. 173200 W, 0.5 leading

× 4. 866 W, 0.5 leading

Question ID : 630680244213

Option 1 ID: 630680947191

Option 2 ID : **630680947193**

Option 3 ID: 630680947192

Option 4 ID : **630680947194**Status : **Answered**

Chosen Option: 4

Q.2 Which is NOT a type of "Dead end clamp"?

Ans

✓ 1. Stirrup binding type dead end clamp

× 2. Single bolt strain clamp

X 3. Compression type dead end clamp

× 4. Two bolt strain clamp

Question ID: 630680244246

Option 1 ID: 630680947326

Option 2 ID: 630680947323

Option 3 ID: 630680947325

Option 4 ID: 630680947324

Status: Answered





Q.3 For the economic operation, the generator at a power plant operate at ______, Also specify that the penalty factor is the measure of

Ans

- X 1. Equal loads; line loss
- X 2. Equal power rating; generation cost
- X 3. Equal loads; fuel cost
- ✓ 4. Equal incremental cost; line loss

Question ID: 630680244229

Option 1 ID : **630680947258** Option 2 ID : **630680947255**

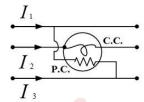
Option 3 ID : **630680947256**

Option 4 ID : 630680947257

Status : Answered

Chosen Option: 1

Q.4 What should be the reading of electrodynameter type wattmeter if it is connected as shown in figure in a 3-phase supply and having 3-phase balanced load. If V_{Ph} and I_{Ph} are the phase voltage and current respectively. ϕ is the phase angle between them.



Ans

- × 1. Proportional to the V_{Ph}I_{Ph}
- X 2. Proportional to the V_{Ph}I_{Ph} sinφ
- × 4. Proportional to the V_{Ph}I_{Ph} tanφ

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Question ID : 630680244233 Option 1 ID : 630680947274

Option 2 ID : **630680947271** Option 3 ID : **630680947272**

Option 4 ID : **630680947273**Status : **Answered**





Q.5 Which of the following is a key step in the installation, commissioning, and maintenance of transmission lines?

Ans

X 1. Conducting soil resistivity tests at the site.

X 2. Testing the insulation resistance of transmission towers.

X 3.

Performing routine maintenance on substation transformers.

4

Ensuring proper grounding of transmission line conductors.

Question ID: 630680244206 Option 1 ID: 630680947165 Option 2 ID: 630680947164 Option 3 ID: 630680947163 Option 4 ID: 630680947166

Status: Answered

Chosen Option: 1

Q.6 Which option is wrong regarding the drawback of "solid system of laying underground cable"?

Ans

J 1.

No protection against mechanical injuries and from impurities present in the soil.

X 2. Much higher cost.

X 3. Reduce current carrying capacity of the cable.

★ 4 Taking more time in laying and repair.

Question ID : 630680244243

Option 1 ID: 630680947314 Option 2 ID: 630680947312 Option 3 ID: 630680947311 Option 4 ID: 630680947313

Status : Answered



Q.7 What will happen if the transformer operated in parallel are NOT connected with regard to polarity?

Ans X 1. The transformer of higher rating will be out of operation.

X 2.

The transformer will not share the load in proportion to their KVA ratings.

× 3. The transformer of lower rating will be out of operation.

✓ 4. Dead short circuit will take place.

Question ID : 630680244219

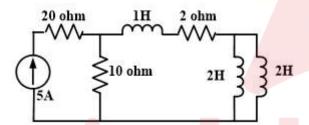
Option 1 ID : 630680947216

Option 2 ID : **630680947217** Option 3 ID : **630680947215**

Option 4 ID : **630680947218**Status : **Answered**

Chosen Option: 4

Q.8 Determine the time constant of the circuit shown in below.



Ans

X 1. 10/9 s

X 2. 6 s

X 3. 9/10 s

√ 4. 1/6 s

Question ID: 630680244215

Option 1 ID : 630680947202

Option 2 ID: 630680947199

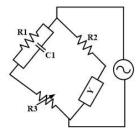
Option 3 ID: 630680947201

Option 4 ID: 630680947200

Status: Answered



What should be the unknown impedance Y if balance condition is obtained by varying R1 and R3 in the figure shown?



X 1 Purely capacitive.

✓ 2. Inductive coil with finite resistance.

× 3. Purely inductive.

X 4. Purely resistive.

Question ID: 630680244232

Option 1 ID: 630680947269

Option 2 ID: 630680947270 Option 3 ID: 630680947268

Option 4 ID: 630680947267

Status: Answered

Chosen Option: 2

Q.10 Evaluate the real power supplied by the source when a 240V single phase AC source is connected to a load with an impedance of 10 160° ohm. A capacitor is connected in parallel with the load and the capacitor supplies 1250 VAR.

Ans X 1. 3600 W

X 2. 1200 W

√ 3. 2880 W

× 4. 2400 W

Question ID: 630680244217

Option 1 ID: 630680947210

Option 2 ID: 630680947208

Option 3 ID: 630680947207

Option 4 ID: 630680947209 Status: Answered





Which of the following is a characteristic of electric traction systems?

Ans X 1.

Electric traction is primarily used in residential buildings for energy utilization.

× 2. Electric traction relies on steam engines for locomotion.

X 3.

Electric traction systems are not suitable for urban transportation.

Electric traction systems are commonly used for powering industrial machinery.

Question ID: 630680244242

Option 1 ID: 630680947307 Option 2 ID: 630680947309 Option 3 ID: 630680947310

Option 4 ID: 630680947308 Status: Answered

Chosen Option: 4

Q.12 Estimate the current carrying capability of a conducting wire from the main distribution board to the meter. The main distribution board has three light/fan circuit of 800W each and two 15A power circuits of 1.5kW each. The safety factor and the power factor is given as 1.5 and 0.8 respectively.

Ans X 1. 50A

X 2. 30A

X 3. 65A

✓ 4. 45A

Question ID: 630680244244

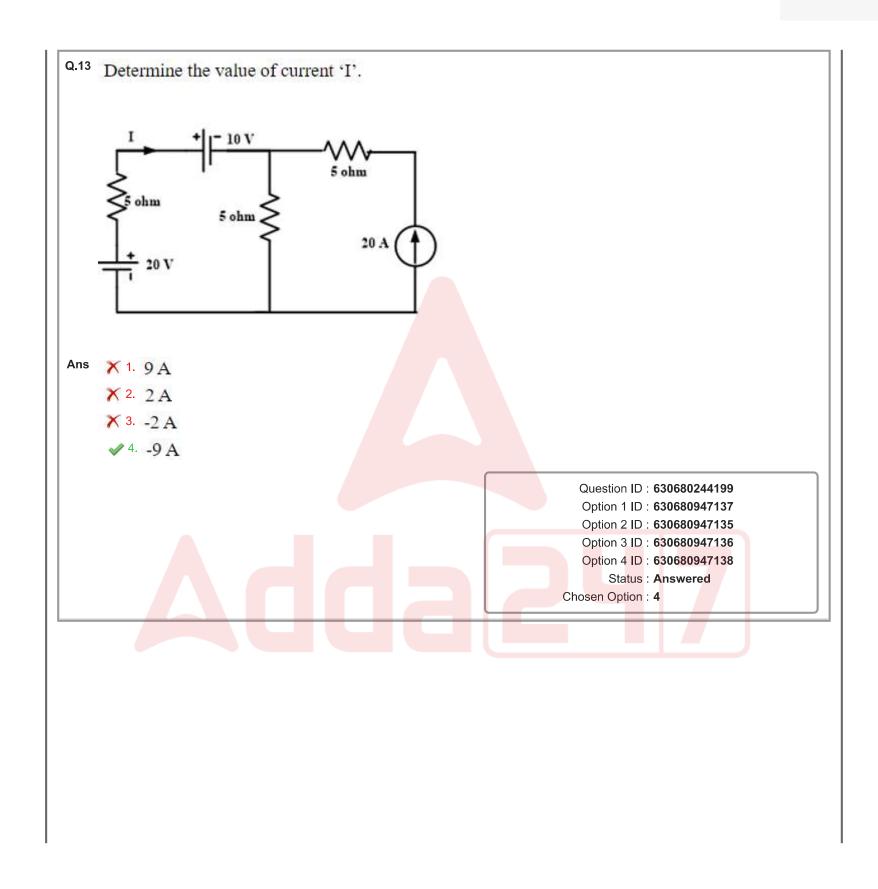
Option 1 ID: 630680947317

Option 2 ID: 630680947315

Option 3 ID: 630680947318 Option 4 ID: 630680947316

Status: Answered







Q.14 How many light points can be safely connected to the circuit without exceeding the maximum allowable load and adhering to safety regulations? The circuit includes 100W lamps and is protected by a 5A fuse.

Ans X 1. 16

2. 9

X 3. 8

× 4. 14

Question ID: 630680244245

Option 1 ID: 630680947320

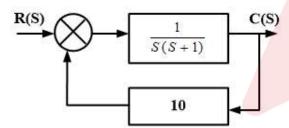
Option 2 ID: 630680947321

Option 3 ID: 630680947319

Option 4 ID: 630680947322 Status: Answered

Chosen Option: 3

Q.15 Calculate the steady state error to unit step input for the given system.



X 1 Infinity

√ 2. 0.9

× 3. 0.1

X 4. 0

Question ID: 630680244209

Option 1 ID: 630680947176

Option 2 ID: 630680947177

Option 3 ID: 630680947178

Option 4 ID: 630680947175

Status: Answered



Q.16 The load angle and operating frequency of a synchronous motor having negligible resistance is 30° and 60Hz respectively. By keeping other parameter constant if the frequency is increased by 20%, then the new load angle will be ___ to keep the associated power constant.

X 1. Sin⁻¹0.8 (or) 53.13°

× 2 Sin⁻¹0.5 (or) 30°

X 3. Sin⁻¹07 (or) 44.42°

√ 4 Sin⁻¹0.6 (or) 36.86°

Question ID: 630680244222 Option 1 ID: 630680947228 Option 2 ID: 630680947229 Option 3 ID: 630680947230 Option 4 ID: 630680947227

Status: Answered

Chosen Option: 3

Q.17 Determine the oscillation frequency of emf of the rotor if it is operating at speed 1710 rpm. The supply voltage and frequency of the three phase four poles induction motor are 440V and 60 Hz respectively.

Ans X 1. 6 Hz

√ 2. 3 Hz

X 3. 50 Hz

X 4. 60 Hz

Question ID: 630680244220

Option 1 ID: 630680947222 Option 2 ID: 630680947221 Option 3 ID: 630680947220 Option 4 ID: 630680947219

Status: Answered



Q.18 Which statement is false regarding the controller and compensator?

Ans



PI controller decreases the steady state error and the lead compensator possess faster speed of response with reduced overshoot.

X 2.

PID controller decreases the steady state error while improving the stability and lead compensator improve transient stability.

X 3.

PID controller decreases the steady state error while improving the stability and the lead compensator increases the system bandwidth.

4

PI controller decreases the steady state error and the lead compensator possess slower speed of response with reduced overshoot

Question ID: 630680244211
Option 1 ID: 630680947183
Option 2 ID: 630680947185
Option 3 ID: 630680947186
Option 4 ID: 630680947184
Status: Answered

Chosen Option : 2

Q.19 Three statements are given in below regarding the suitable choice of HVDC converter configuration:

- a. Transformer utilization factor should be nearly unity.
- b. Ratio of peak inverse voltage to no load DC output voltage should be as high as possible.
- c. Pulse number should be high.

Identify the correct statement and choose the correct option.

Ans

X 1 a, b and c

X 2. c and b

X 3. b and a

Question ID: 630680244237

Option 1 ID : **630680947287** Option 2 ID : **630680947288**

Option 3 ID : **630680947290** Option 4 ID : **630680947289**

Status : Answered





Q.20 Three statements are given regarding the HVDC power transmission

- a. Most of the present day DC schemes are two terminals links.
- b. The modern HVDC system use 12-pulse converter.
- c. DC system never use ground or sea return.

Identify which of the statements are correct and choose the appropriate option.

Ans

X 1 b and c

✓ 2. a and b

X 3. a, b and c

X 4. a and c

Question ID: 630680244236 Option 1 ID: 630680947286 Option 2 ID: 630680947284 Option 3 ID: 630680947283 Option 4 ID: 630680947285

Status : **Answered** Chosen Option : **3**

Q.21 Which is NOT true about the quality factor of the AC circuit at resonance?

Δn

X 1 It is the ratio of the inductive reactance to the resistance.

X 2.

It is defined as the ratio of maximum energy stored to the energy dissipated per cycle.

× 3. It is the ratio of the capacitive reactance to the resistance.

4

It represents power magnification that the circuit produced during the resonance.

Question ID: 630680244202

Option 1 ID: 630680947147 Option 2 ID: 630680947150 Option 3 ID: 630680947148 Option 4 ID: 630680947149

Status : Answered



Identify the wrong statement.



With the reduction of DC excitation, synchronous motor draws more current from the supply mains at lower lagging power factor.

X 2.

A synchronous motor is supplying load at unity pf. If the load on the motor is increased keeping its excitation and terminal voltage constant, the power factor will be lagging.

X 3.

The synchronous motor operates at leading power factors when it is in overexcited condition.

The current drawn from the supply main is maximum for a certain value of excitation at where the phase angle between 'V" and 'I' is zero.

> Question ID: 630680244223 Option 1 ID: 630680947231 Option 2 ID: 630680947234 Option 3 ID: 630680947233 Option 4 ID: 630680947232

> > Status: Answered

Chosen Option: 1

Q.23 The A, B, C, D constant of 220 kV line are:

A=D=0.94 \(\sum 1^0\), B=130 \(\sum 73^0\) C=0.001 \(\sum 90^0\). If the sending end voltage of the line for a given load delivered at a nominal voltage is 240 kV, the percentage of voltage regulation of the line is _

Ans

√ 1 16

X 2. 5

× 3. 21

X 4. 9

Question ID: 630680244227

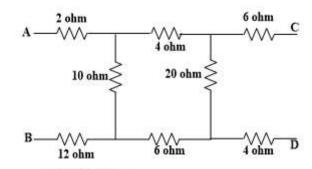
Option 1 ID: 630680947250 Option 2 ID: 630680947249

Option 3 ID: 630680947248 Option 4 ID: 630680947247

Status: Answered



Q.24 Estimate the equivalent resistance across C and D terminals?



Ans 🗸 1. 20.00 ohm

× 2. 16.85 ohm

X 3. 20.50 ohm

× 4. 24.00 ohm

Question ID: 630680244200

Option 1 ID : 630680947141

Option 2 ID : 630680947139

Option 3 ID : **630680947140** Option 4 ID : **630680947142**

Status: Answered

Chosen Option : 1

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Q.25 Mono polar HVDC link indicates _____ Also in HVDC system, due to _____ more numbers of thyristor are connected in series.

Ans



Two conductor of usually one negative polarity and other positive; Low voltage rating of the thristors

X 2

Both of two conductors negative polarity; Low current rating of the thristors

3 3

One conductor of usually negative polarity; Low voltage rating of the thristors

X 4.

One conductor of usually positive polarity; Low current rating of the thristors

Question ID: 630680244239
Option 1 ID: 630680947297
Option 2 ID: 630680947298
Option 3 ID: 630680947296
Option 4 ID: 630680947295

Status: Answered

Chosen Option : 4

Q.26 Which statement is wrong regarding the 'jumper'?

Ans



Jumpers are fixed to the line conductors with a suitable clamp.

√ 2

A jumper is made up of the different material as that of the line conductor to withstand the maximum voltage gradient.

X 3

Jumper has same current carrying capability as that of the line conductor.

X 4.

For high voltage lines, the jumpers are arranged in such a way that under maximum deflection condition there is minimum clearance of 0.1 m between the line jumpers and other metallic parts.

Question ID : 630680244247 Option 1 ID : 630680947329 Option 2 ID : 630680947327 Option 3 ID : 630680947328 Option 4 ID : 630680947330

Status : Answered



Which statement is true regarding the RLC circuit supplied from an AC source?



The reactive power is proportional to the average energy stored in the magnetic field.



The reactive power is proportional to the average energy stored in the electric field.



The reactive power is proportional to the difference between the average energy stored in the electric field and that stored in the magnetic field.



The reactive power is proportional to the sum of the average energy stored in the electric field and that stored in the magnetic field.

> Question ID: 630680244214 Option 1 ID: 630680947196 Option 2 ID: 630680947195 Option 3 ID: 630680947198 Option 4 ID: 630680947197

> > Status: Answered

Chosen Option: 3

Which statement is wrong regarding the "guarding of overhead line"?



Cage guarding is provided in long transmission line with vertical formation.

Cradle guarding is provided when the conductors are in horizontal or delta formation.

× 3. The cradle guard is directly connected to earth wire.



The cage guard wire should be made with the different material as compared to the earth wire material.

Question ID: 630680244207 Option 1 ID: 630680947169 Option 2 ID: 630680947167

Option 3 ID: 630680947168 Option 4 ID: 630680947170

Status: Answered





Q.29 To improve _____, the shunt compensation in EHV is implemented.

Ans

× 1. Stability, fault level and power factor

× 2. Stability, fault level and voltage profile

X 4. Stability and voltage profile only

Question ID : 630680244234

Option 1 ID: 630680947275 Option 2 ID: 630680947276 Option 3 ID: 630680947277

Option 4 ID : **630680947278**Status : **Answered**

Chosen Option: 3

Q.30 A $3\frac{1}{2}$ digit digital multimeter can read maximum upto _____ ohmic range.

Ans

√ 1. 1999 ohm

X 2. 999 ohm

X 3. 1000 ohm

X 4. 9999 ohm

Question ID: 630680244231

Option 1 ID : 630680947264 Option 2 ID : 630680947266

Option 3 ID : **630680947265**

Option 4 ID: 630680947263

Status: Answered



Q.31 The power developed by the synchronous generator is given by.

$$P = \frac{{}_3E_0V}{X_d}\sin\delta + \frac{{}_3V^2}{2}{\left\{\!\frac{1}{X_q} - \frac{1}{X_d}\!\right\}}\sin2\delta$$

The first and second terms represents _____ and _____, respectively. If no field excitation is there then _____

Ans

× 1. Field excitation power; Reluctance power; second term

✓ 2. Field excitation power; Reluctance power; first term

X 3. Reluctance power; field excitation power; first term

× 4. Reluctance power; field excitation power; second term

Question ID : 630680244225
Option 1 ID : 630680947242
Option 2 ID : 630680947241
Option 3 ID : 630680947239
Option 4 ID : 630680947240
Status : Answered

Chosen Option: 3

Q.32 Which statement is wrong regarding the EHV transmission line noise?

Ans

The audible noise produced by EHV transmission line and substation is not a function of environmental condition.



The audible noise produced by EHV transmission line and substation is a function of number of sub-conductors in a bundle.

X 3.

The audible noise produced by EHV transmission line and substation is a function of the lateral distance between the lines and point of measurement of noise.

X A

The audible noise produced by EHV transmission line and substation is a function of voltage gradient on the surface of a conductor.

Question ID: 630680244235 Option 1 ID: 630680947281 Option 2 ID: 630680947282 Option 3 ID: 630680947280 Option 4 ID: 630680947279

Status : Answered





The Nyquist plot can be used to adjudge:

★ 1. Absolute and relative stability.

× 2. Stability and transient response.

X 3. Steady state error.

Absolute as well as relative stability and number of closed loop poles in the right half of s-plane

Question ID: 630680244210 Option 1 ID: 630680947181 Option 2 ID: 630680947180 Option 3 ID: 630680947182 Option 4 ID: 630680947179 Status: Answered

Chosen Option: 2

Q.34 If load draw a current of 20 A at 0.85 pf lagging when connected to 220 V supply, then Calculate reactive power drawn

Ans X 1. 2107.13 VAR

√ 2. 2317.48 VAR

X 3. 1338.036 VAR

X 4. 3740 VAR

Question ID: 630680244201

Option 1 ID: 630680947146

Option 2 ID: 630680947145

Option 3 ID: 630680947143

Option 4 ID: 630680947144

Status: Answered





Q.35 How a line current and the back emf vary with the increase in speed of DC motor?

Ans

- ✓ 1. A line current decreases and the back emf increases.
- X 2. Both line current and back emf decreases.
- X 3. Both the line current and back emf increases.
- X 4 A line current increases and the back emf decreases

Question ID: 630680244218
Option 1 ID: 630680947211
Option 2 ID: 630680947214
Option 3 ID: 630680947213
Option 4 ID: 630680947212

Status: Answered

Chosen Option: 1

Q.36 When there is interference in an overhead communication line running parallel and in close proximity to an overhead power line, the voltage induced in the communication line in the longitudinal and lateral directions by the power lines are due to:

Ans

- X 1. Magnetic inductions only.
- 2. Magnetic induction and electric induction respectively.
- × 3. Electric induction only.
- X 4. Electric induction and magnetic induction respectively.

Question ID: 630680244238

Option 1 ID : 630680947293 Option 2 ID : 630680947291 Option 3 ID : 630680947294

Option 4 ID : 630680947292

Status : Answered





Which of the given statement is false regarding the IGBT?

× 1. It is a unipolar switch.

✓ 2. Drain, source and gate are the three terminals of the IGBT

× 3. It is a uni-directional switch.

X 4. It is a fully controlled switch.

Question ID: 630680244205 Option 1 ID: 630680947162 Option 2 ID: 630680947161 Option 3 ID: 630680947159 Option 4 ID: 630680947160

Status: Answered Chosen Option: 3

Which statement is true regarding the inverter?



The voltage waveform generated in a single phase system is unsymmetrical around the time axis and the odd harmonics are present in the resulting pulse width modulated waveform.



The voltage waveform generated in a single phase system is unsymmetrical around the time axis and the odd harmonics are absent in the resulting pulse width modulated waveform.



The voltage waveform generated in a single phase system is symmetrical around the time axis and the odd harmonics are absent in the resulting pulse width modulated waveform.



The voltage waveform generated in a single phase system is symmetrical around the time axis and the odd harmonics are present in the resulting pulse width modulated waveform.

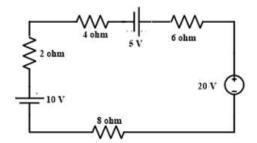
Question ID: 630680244212

Option 1 ID: 630680947189 Option 2 ID: 630680947190 Option 3 ID: 630680947188 Option 4 ID: 630680947187

Status: Answered



Q.39 Evaluate the magnitude and nature of current flow through the circuit shown in below.



Ans

√ 1. 0.25 A, anti-clockwise

× 2. 0.25 A, clockwise

X 3. 0.75 A, clockwise

× 4. 0.75 A, anti-clockwise

Question ID : 630680244198

Option 1 ID: 630680947132

Option 2 ID: 630680947131

Option 3 ID: 630680947133

Option 4 ID: 630680947134

Status : Answered

Chosen Option: 4

Adda[24]7





Q.40 Which of the following factors significantly affects the illumination level in a space?

Ans

X 1. The type of electrical wiring used.



The distance between the light source and the illuminated area.

X 3. The ambient temperature of the room.

X 4. The color of the walls.

Question ID: 630680244241
Option 1 ID: 630680947305
Option 2 ID: 630680947306
Option 3 ID: 630680947303
Option 4 ID: 630680947304

Status: Answered

Chosen Option: 2

Q.41 Which option is false regarding the single phase induction motor?

Ans



The starting torque of resistance start single phase induction motor is 1.5 to 2 times to the full load starting torque.



The starting torque of capacitor start induction motor is twice than that of resistance start induction motor.



The line current of resistance start induction motor is found to be two-third lower than the line current of a corresponding capacitor start induction motor.



The capacitor start induction motor differs from the resistance start induction motor during the starting period only.

Question ID: 630680244221

Option 1 ID : 630680947226 Option 2 ID : 630680947224

Option 3 ID : **630680947223**

Option 4 ID: 630680947225

Status: Answered





Q.42 Which is NOT a voltage control technique in AC supply system?

Ans

√ 1

Use of synchronous motor at the sending end of long EHV transmission line.

X 2.

Switching shunt reactor during light load or while energizing the long EHV lines.

X 3. By using booster transformer and induction regulator.

X 4. Use of series capacitor in long EHV transmission line.

Question ID : 630680244228
Option 1 ID : 630680947253
Option 2 ID : 630680947252
Option 3 ID : 630680947254
Option 4 ID : 630680947251
Status : Answered

Chosen Option: 2

Q.43 _____ and ____ vapour gas will give yellow and green colours respectively in a filament lamp.

Ans

✓ 1. Sodium; mercury

× 2. Helium; magnesium

★ 3. Helium; mercury

× 4. Sodium; magnesium

Question ID: 630680244240

Option 1 ID : 630680947300 Option 2 ID : 630680947299 Option 3 ID : 630680947302

Option 4 ID : **630680947301**Status : **Answered**



Q.44 A three phase overhead line is designed with an equilateral spacing of 7.788m with a conductor diameter of 2cm. Calculate the inductance per phase.

Ans

✓ 1. 9.2 × 10⁻⁷ H/m

 \times 2. 4.6 \times 10⁻⁷ H/m

 \times 3. 2 × 10⁻⁷ H/m

× 4. 0

Question ID : 630680244226

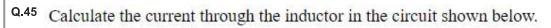
Option 1 ID: 630680947244 Option 2 ID: 630680947245 Option 3 ID: 630680947243

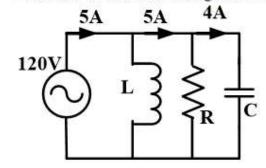
Option 4 ID : **630680947246**

Status: Answered









Ans X 1. 0 A

X 2. 3 A

X 3. 4A

✓4.8A

Question ID: 630680244216

Option 1 ID : 630680947205

Option 2 ID: 630680947206

Option 3 ID : **630680947204** Option 4 ID : **630680947203**

Status : **Answered**

Chosen Option : 1

Adda[24]7



Q.46 Which option is true related to short-pitched winding?

The advantage and disadvantage of short-pitched type winding is _____ and ____, Also the value of pitch factor is

Ans X 1.

Decreases the harmonic contents on armature winding; decreases the voltages; always greater than unity.

Increases the voltage on armature winding; increases the harmonics; always less than unity.

Increases the voltage on armature winding; increases the harmonics; always greater than unity.

Decreases the harmonic contents on armature winding; decreases the voltages; always less than unity.

Question ID: 630680244224 Option 1 ID: 630680947238 Option 2 ID: 630680947235

Option 3 ID: 630680947236 Option 4 ID: 630680947237

Status: Answered Chosen Option: 2

Q.47 What is the primary purpose of the time-base control in a Cathode Ray Oscilloscope (CRO)?

X 1. To adjust the intensity of the electron beam

× 2. To adjust the brightness of the display.

× 4. To control the triggering of the vertical deflection

Question ID: 630680244230

Option 1 ID: 630680947259

Option 2 ID: 630680947261

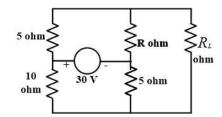
Option 3 ID: 630680947262

Option 4 ID: 630680947260

Status: Answered



Q.48 The current through the resistance ' R_L ' is zero in the given circuit. Determine the value of the resistor.



Ans

× 1. 2/5 Ω

× 2. 4/5 Ω

× 3. 5/4 Ω

√ 4. 5/2 Ω

Question ID: 630680244203

Option 1 ID: 630680947154

Option 2 ID: **630680947152**

Option 3 ID: 630680947151

Option 4 ID: 630680947153

Status : **Answered**

Chosen Option: 3

Adda[24]7



Q.49 The input voltage with resistive load of a single phase half wave controlled rectifier is 400 sin 314t. For the firing angle of 60°, the average output voltage is _____.

Ans



 \times 2. $\frac{200}{\pi}$

X 3. $\frac{100}{\pi}$

 \times 4. $\frac{400}{\pi}$

Question ID: 630680244204

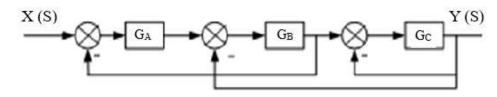
Option 1 ID: 630680947158 Option 2 ID: 630680947156 Option 3 ID: 630680947155

Option 4 ID : **630680947157**Status : **Answered**





Determine the transfer function $\frac{Y(S)}{X(S)}$ of the given block diagram.



$$\times$$
 2. $\frac{G_A G_B G_C}{1 - G_A G_B - G_B G_C + G_C G_A G_B + G_C}$

$$\times$$
 3.
$$\frac{G_A G_B G_C}{1 + G_A G_B + G_B G_C + G_C G_A + G_C}$$

$$\times$$
 4.
$$\frac{G_AG_BG_C}{1-G_AG_B-G_BG_C-G_CG_A+G_C}$$

Question ID: 630680244208

Option 1 ID : **630680947172** Option 2 ID : **630680947174**

Option 3 ID : **630680947171** Option 4 ID : **630680947173**

Status : Not Answered