

IOCL JEA

**Previous Year Paper
(Electrical)
29 Sept, 2024 Shift 1**

Participant ID
Participant Name
Test Center Name
Test Date
Test Time
Subject JEA -IV Electrical

Section : Subject Knowledge

Q.1 A 100 kVA transformer used for lighting has an iron loss of 4 kW and full load copper loss of 2 kW per hour. The transformer is connected with half the load for 8 hours during the day. Calculate the all day efficiency of the transformer.

- Ans A. 0.85
B. 0.8
C. 0.875
D. 0.9

Question ID : 6306801000200
Option 1 ID : 6306803924932
Option 2 ID : 6306803924931
Option 3 ID : 6306803924933
Option 4 ID : 6306803924934
Status : Answered B
Chosen Option :

Q.2 Select the correct power amplifier circuit to eliminate cross over distortion.

- Ans A. Series fed Class A power amplifier
B. Class AB power amplifier
C. Class B power amplifier
D. Transformer coupled Class A power amplifier

Question ID : 6306801005188
Option 1 ID : 6306803944596
Option 2 ID : 6306803944598
Option 3 ID : 6306803944597
Option 4 ID : 6306803944599
Status : Answered D
Chosen Option :

Q.3 _____ is the fastest available memory.

- Ans A. ROM
B. PROM
C. DRAM
D. SRAM

Question ID : 6306801014833
Option 1 ID : 6306803982921
Option 2 ID : 6306803982918
Option 3 ID : 6306803982920
Option 4 ID : 6306803982919
Status : Marked For Review
Chosen Option : C

Q.4

In which of the following applications, the impregnated fibrous material is used in the form of tape?

Ans

A. Switch boards

B. Circuit breakers

C. Joining the cables

D. Panel boards

Question ID : 630680376447

Option 1 ID : 6306801466857

Option 2 ID : 6306801466855

Option 3 ID : 6306801466858

Option 4 ID : 6306801466856

Status : Answered C

Chosen Option :

Q.5

A high voltage winding of 3 ϕ transformer was initially designed in delta. When the design changed to star with parameters like power remain constant, which of the following statement is WRONG?

Ans

A. Winding insulation decreases

B. Winding conductor cross section increases

C. Winding resistance increases

D. Number of turns increases

Question ID : 630680334676

Option 1 ID : 6306801301961

Option 2 ID : 6306801301964

Option 3 ID : 6306801301963

Option 4 ID : 6306801301962

Status : Marked For Review

Chosen Option : D

Q.6

The flux emitted by a lamp in all directions is 2000 lumens. Calculate its MSCP.

Ans

A. $\frac{250}{\pi}$

B. $\frac{500}{\pi}$

C. $\frac{2000}{\pi}$

D. $\frac{2000}{2\pi}$

Question ID : 630680389666

Option 1 ID : 6306801519125

Option 2 ID : 6306801519124

Option 3 ID : 6306801519123

Option 4 ID : 6306801519122

Status : Answered B

Chosen Option :

Q.7

Read the given statements carefully and select the most appropriate option regarding the impact of negative feedback on output impedance in feedback amplifier circuits.

Statement I: Due to voltage series feedback, the output impedance is decreased.

Statement II: Due to voltage shunt feedback, the output impedance is decreased.

Ans

A. Only statement I is correct.

B. Both statements I and II are correct.

C. Only statement II is correct.

D. Both statements I and II are wrong.

Question ID : 6306801004688

Option 1 ID : 6306803942625

Option 2 ID : 6306803942627

Option 3 ID : 6306803942626

Option 4 ID : 6306803942628

Status : Answered C

Chosen Option :

Q.8 In a grid, 'Under frequency' condition occurs when: Ans A. the total MW generated is zero B. the total MW generated is more than the total load C. the total MW generated is less than the total load D. the total MW generated is equal to the total load	Question ID : 6306801016552 Option 1 ID : 6306803989755 Option 2 ID : 6306803989752 Option 3 ID : 6306803989753 Option 4 ID : 6306803989754 Status : Answered C Chosen Option :
Q.9 A parallel R-L-C circuit is working at its resonant frequency. Which of the following statements is/are correct keeping this context in mind? (a) Power factor of the circuit is zero. (b) The current in the circuit is minimum. (c) The impedance of the circuit is minimum. Ans A. Only (b) B. Only (c) and (b) C. Only (a) D. Only (a) and (b)	Question ID : 630680209186 Option 1 ID : 630680810962 Option 2 ID : 630680810960 Option 3 ID : 630680810961 Option 4 ID : 630680810959 Status : Answered A Chosen Option :
Q.10In basic slide wire potentiometer, the working current through the _____ is varied by changing the rheostat setting. Ans A. galvanometer B. slide wire C. resistor D. slide contact	Question ID : 630680195081 Option 1 ID : 630680756814 Option 2 ID : 630680756813 Option 3 ID : 630680756816 Option 4 ID : 630680756815 Status : Answered C Chosen Option :
Q.11A T flip flop can be realised by using a JK flip flop by _____. Ans A. connecting both the input terminals to Vcc B. connecting terminal J to the output and terminal K to the ground C. connecting both the input terminals to the same input D. connecting both the input terminals to Ground	Question ID : 6306801015257 Option 1 ID : 6306803984614 Option 2 ID : 6306803984617 Option 3 ID : 6306803984616 Option 4 ID : 6306803984615 Status : Answered B Chosen Option :
Q.12The _____ connection method is used for connecting high impedance components like high value resistors, large coils and small capacitors to the terminals of Q-meter. Ans A. series B. partial C. direct D. parallel	Question ID : 630680195056 Option 1 ID : 630680756713 Option 2 ID : 630680756716 Option 3 ID : 630680756714 Option 4 ID : 630680756715 Status : Answered C Chosen Option :

Q.13The armature core of a DC generator is made up of: Ans A. aluminium stampings B. copper stampings C. low permeability silicon steel stampings D. high permeability silicon steel stampings	Question ID : 630680999369 Option 1 ID : 6306803921409 Option 2 ID : 6306803921408 Option 3 ID : 6306803921406 Option 4 ID : 6306803921407 Status : Answered D Chosen Option :
Q.14Why is a higher load factor desirable in a power system? Ans A. It indicates that a system is running at peak efficiency. B. It allows the system to handle more peak loads. C. It lowers the cost of generation per unit for the same maximum demand. D. It reduces the energy consumption during peak hours.	Question ID : 6306801029236 Option 1 ID : 6306804039566 Option 2 ID : 6306804039569 Option 3 ID : 6306804039568 Option 4 ID : 6306804039567 Status : Answered C Chosen Option :
Q.15Excitation to a self excited DC generator is provided by _____ current. Ans A. eddy B. field C. armature D. load	Question ID : 630680999264 Option 1 ID : 6306803920967 Option 2 ID : 6306803920968 Option 3 ID : 6306803920966 Option 4 ID : 6306803920969 Status : Answered C Chosen Option :
Q.16 8085 microprocessor is a _____ bit microprocessor. Ans A. 8 B. 4 C. 32 D. 16	Question ID : 6306801015297 Option 1 ID : 6306803984775 Option 2 ID : 6306803984774 Option 3 ID : 6306803984777 Option 4 ID : 6306803984776 Status : Answered D Chosen Option :
Q.17Convert (121.40) decimal into the octal number system. Ans A. (171.13)₈ B. (131.71)₈ C. (171.31)₈ D. (131.17)₈	Question ID : 6306801015222 Option 1 ID : 6306803984467 Option 2 ID : 6306803984468 Option 3 ID : 6306803984466 Option 4 ID : 6306803984469 Status : Answered A Chosen Option :

Ans

- A. To ensure the work is completed on time
- B. To confirm the tenderer's legal compliance
- C. To evaluate the long-term cost and support for the product or service
- D. To verify the accuracy of the project specifications

Ans

- A. Voltage drop on account of armature leakage reactance
- B. Voltage drop on account of armature flux
- C. Voltage drop on account of armature reaction
- D. Voltage drop on account of armature effective resistance

Ans

- A. Only Statements II and III
- B. Only Statements I and II
- C. Only Statements I and III
- D. Only Statements III and IV

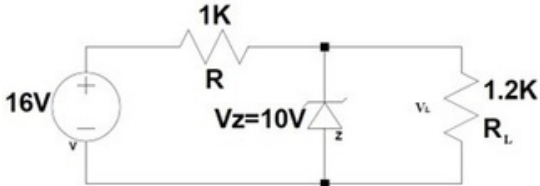
Ans

- A. Microphone
- B. Bourdon tube
- C. Piezoelectric transducer
- D. Load cell

Ans

- A. 0.025 Wb
- B. 0.075 Wb
- C. 0.06 Wb
- D. 0.07 Wb

Question ID : 630680999467
Option 1 ID : 6306803921838
Option 2 ID : 6306803921841
Option 3 ID : 6306803921839
Option 4 ID : 6306803921840
Status : Answered C
Chosen Option :

Q.23What is one of the primary advantages of interconnecting two or more generating stations? Ans A. Higher installed capacity requirement B. Mutual transfer of energy from surplus to deficit zones C. Increased capital cost D. More frequent power interruptions	Question ID : 6306801029251 Option 1 ID : 6306804039627 Option 2 ID : 6306804039628 Option 3 ID : 6306804039626 Option 4 ID : 6306804039629 Status : Answered B Chosen Option :
Q.24How does the addition of halogen vapour in halogen lamps improve their performance? Ans A. It enhances the bulb's transparency. B. It initiates a regenerative cycle that restores evaporated tungsten back to the filament. C. It increases the filament's resistance. D. It decreases the operating temperature.	Question ID : 6306801030004 Option 1 ID : 6306804042712 Option 2 ID : 6306804042713 Option 3 ID : 6306804042711 Option 4 ID : 6306804042714 Status : Answered B Chosen Option :
Q.25For the network shown below, determine the current through the Zener diode and voltage across load resistance R_L.  Ans A. Zener current is 0.5 amp and load resistance voltage is 10 volts B. Zener current is 8.73 amp and load resistance voltage is 0 volts C. Zener current is 0 amp and load resistance voltage is 8.73 volts. D. Zener current is 0 amp and load resistance voltage is 0 volts	Question ID : 630680195583 Option 1 ID : 630680758801 Option 2 ID : 630680758804 Option 3 ID : 630680758803 Option 4 ID : 630680758802 Status : Answered A Chosen Option :
Q.26Which of the following is NOT a condition for parallel operation of transformers? Ans A. Same percentage impedance of both transformers B. Same KVA rating of both transformers C. Same polarity of both transformers D. Same phase sequence of both transformers	Question ID : 630680380951 Option 1 ID : 6306801484792 Option 2 ID : 6306801484791 Option 3 ID : 6306801484793 Option 4 ID : 6306801484794 Status : Answered A Chosen Option :

Q.27

The dial switch in a Crompton potentiometer is divided into _____ steps of _____ each such that total resistance of the dial switch is 150 Ω.

Ans

A. 10 Ω; 15

B. 10 Ω;

20 C. 15 Ω;

10 D. 10

Ω; 10

Question ID : 630680205131

Option 1 ID : 630680795388

Option 2 ID : 630680795390

Option 3 ID : 630680795389

Option 4 ID : 630680795387

Status : Answered A

Chosen Option :

Q.28

The speed control of a DC shunt motor by armature voltage control is a:

Ans

A. constant power system

B. variable power system

C. variable torque system

D. constant torque system

Question ID : 630680999652

Option 1 ID : 6306803922711

Option 2 ID : 6306803922713

Option 3 ID : 6306803922712

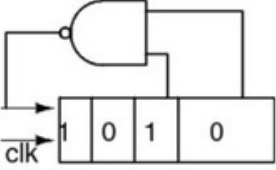
Option 4 ID : 6306803922710

Status : Marked For Review

Chosen Option : A

Q.29

In the circuit shown below, a SIPO register is loaded with 1010. After 3 clock pulses, the data present will be _____.



Ans

A. 1010

B. 1111

C. 0101

D. 0000

Question ID : 630680176955

Option 1 ID : 630680686025

Option 2 ID : 630680686024

Option 3 ID : 630680686026

Option 4 ID : 630680686027

Status : Answered A

Chosen Option :

Q.30

The correct phase sequence of a three-phase induction motor running in clockwise direction connected to a three-phase system is RYB. Which of the following phase sequences will keep the direction of motor unchanged?

Ans

A. RBY

B. BYR

C. YRB

D. YBR

Question ID : 630680334737

Option 1 ID : 6306801302205

Option 2 ID : 6306801302207

Option 3 ID : 6306801302208

Option 4 ID : 6306801302206

Status : Answered B

Chosen Option :

Q.31A pure capacitor of reactance $5\ \Omega$ is connected across an AC source of $v(t) = 10\sin(50t - 10^\circ)$ V. The current through the circuit is _____.

Ans

A. $2\sin(50 + 80^\circ)$ A

B. $2500\sin(50 + 100^\circ)$ A

C. $2\sin(50 - 100^\circ)$ A

D. $2500\sin(50 + 80^\circ)$ A

Question ID : 630680328977

Option 1 ID : 6306801279861

Option 2 ID : 6306801279862

Option 3 ID : 6306801279864

Option 4 ID : 6306801279863

Status : Answered A

Chosen Option :

Q.32The equivalent circuit of a transformer represents the:

Ans

A. electrical behaviour of the transformer under load

B. magnetic flux distribution within the core

C. mechanical components of the transformer

D. physical arrangement of the windings

Question ID : 630680380922

Option 1 ID : 6306801484677

Option 2 ID : 6306801484676

Option 3 ID : 6306801484678

Option 4 ID : 6306801484675

Status : Answered A

Chosen Option :

Q.33Which of the following methods is NOT used in solving A-C parallel circuits?

Ans

A. Phasor method

B. Admittance method

C. j-operator method

D. Impedance method

Question ID : 630680334700

Option 1 ID : 6306801302057

Option 2 ID : 6306801302059

Option 3 ID : 6306801302058

Option 4 ID : 6306801302060

Status : Answered C

Chosen Option :

Q.34What does the term 'overhead charges' refer to in the context of estimating?

Ans

A. The profit margin of the contractor

B. The cost of subcontractors

C. The general administrative and operational expenses required to complete the project

D. The cost of materials used in the project

Question ID : 6306801029424

Option 1 ID : 6306804040323

Option 2 ID : 6306804040325

Option 3 ID : 6306804040324

Option 4 ID : 6306804040322

Status : Answered C

Chosen Option :

Q.35What is the primary reason for protecting a thyristor against high di/dt during turn-on?

Ans

A. To prevent voltage drop across the device

B. To reduce the leakage current in the forward blocking state

C. To avoid localised hot spot heating and potential device failure

D. To ensure proper gate drive voltage

Question ID : 6306801007646

Option 1 ID : 6306803954251

Option 2 ID : 6306803954254

Option 3 ID : 6306803954252

Option 4 ID : 6306803954253

Status : Answered C

Chosen Option :

Q.36Read the given statements carefully and select the most appropriate option regarding the BJT common base amplifier circuit.

Statement I: The current gain is much greater than one.

Statement II: The common base amplifier is an inverting amplifier.

Ans

A. Both statements I and II are correct.

B. Only statement II is correct.

C. Only statement I is correct.

D. Both statements I and II are wrong.

Question ID : 6306801004728

Option 1 ID : 6306803942783

Option 2 ID : 6306803942782

Option 3 ID : 6306803942781

Option 4 ID : 6306803942784

Status : Answered C

Chosen Option :

Q.37For determination of relative polarity of two windings of a transformer, the two windings are connected _____.

Ans

A. in series with ammeter

B. in parallel across a voltmeter

C. across ammeter

D. in series across a voltmeter

Question ID : 6306801003854

Option 1 ID : 6306803939627

Option 2 ID : 6306803939626

Option 3 ID : 6306803939628

Option 4 ID : 6306803939625

Status : Answered A

Chosen Option :

Q.38उपयो गता गुणांक पर कमरे के आकार और द वार के रंग का या भाव पड़ता है?

Ans

A. ह कैरंगक द वार वालेबड़ेकमर के लए कम

B. ह कैरंगक द वार वालेबड़ेकमर के लए अ धक

C. गहरेरंगक द वार वालेबड़ेकमर के लए कम

D. गहरेरंगवालेछोटेकमर के लए अ धक

Question ID : 6306801029999

Option 1 ID : 6306804042693

Option 2 ID : 6306804042692

Option 3 ID : 6306804042694

Option 4 ID : 6306804042691

Status : Marked For Review

Chosen Option : A

Q.39Pull out torque refers to the ability of motor:

Ans

A. to accelerate the load

B. to remain in synchronism under no load conditions

C. to pull into synchronism when changing from induction to synchronous motor operation

D. to remain in synchronism under rated load conditions

Question ID : 6306801006529

Option 1 ID : 6306803949866

Option 2 ID : 6306803949869

Option 3 ID : 6306803949867

Option 4 ID : 6306803949868

Status : Answered C

Chosen Option :

Q.40Which of the following statements regarding encoders is/are true?

Statement (1): An encoder converts an active input signal into a coded output signal.

Statement (2): Encoders can be used to convert decimal number to binary coded decimal.

Statement (3): An encoder cannot be used for converting octal number to binary number.

Ans

A. Only statements (2) and (3) are true.

B. All statements (1), (2) and (3) are true.

C. Only statements (1) and (3) are true.

D. Only statements (1) and (2) are true.

Question ID : 630680405305

Option 1 ID : 6306801580479

Option 2 ID : 6306801580481

Option 3 ID : 6306801580480

Option 4 ID : 6306801580478

Status : Answered A

Chosen Option :

Q.41Kelvin Double bridge is used for the measurement of _____. Ans A. high resistance in the range of mega ohms B. low resistance less than 1 Ω C. resistance greater than 1K Ω D. medium resistance greater than 1 Ω	Question ID : 630680195065 Option 1 ID : 630680756752 Option 2 ID : 630680756749 Option 3 ID : 630680756751 Option 4 ID : 630680756750 Status : Answered B Chosen Option :
Q.42What is the tensile strength range of wood? Ans A. 700-1200 kg/cm² B. 100-300 kg/cm² c. 300-500 kg/cm² D. 500-700 kg/cm²	Question ID : 6306801007220 Option 1 ID : 6306803952603 Option 2 ID : 6306803952600 Option 3 ID : 6306803952601 Option 4 ID : 6306803952602 Status : Answered C Chosen Option :
Q.43Select the correct condition for an N-channel power MOSFET to be in the cut-off region. Ans A. $V_{GS} < \text{Threshold voltage}$ B. $V_{GS} > \text{threshold voltage}$ C. $V_{GS} = V_{DS} = \frac{V_{DD}}{2}$ D. $V_{GS} = \text{Supply voltage } V_{DD}$	Question ID : 6306801005164 Option 1 ID : 6306803944502 Option 2 ID : 6306803944500 Option 3 ID : 6306803944501 Option 4 ID : 6306803944503 Status : Answered B Chosen Option :
Q.44 What is the octal equivalent of the binary number (110100101.11101)? Ans A. (546.71)₈ B. (645.72)₈ c. (275.46)₈ D. (322.75)₈	Question ID : 6306801014864 Option 1 ID : 6306803983043 Option 2 ID : 6306803983042 Option 3 ID : 6306803983045 Option 4 ID : 6306803983044 Status : Answered A Chosen Option :

Q.45Parabolic reflectors are used in: Ans A. flat plate collectors B. line focusing collectors C. typical air D. typical liquid collectors	Question ID : 6306801016595 Option 1 ID : 6306803989929 Option 2 ID : 6306803989926 Option 3 ID : 6306803989928 Option 4 ID : 6306803989927 Status : Answered B Chosen Option :
Q.46Which biomass type is used in the form of pellets to release stored energy? Ans A. Animal waste B. Bagasse plant waste C. Wood and its residues D. Municipal solid waste	Question ID : 6306801029343 Option 1 ID : 6306804039992 Option 2 ID : 6306804039990 Option 3 ID : 6306804039991 Option 4 ID : 6306804039993 Status : Answered D Chosen Option :
Q.47What is the use of HOLD and HLDA pin in 8085 microprocessor? Ans A. DMA operation B. Power saving C. Serial communication D. Interrupt handling	Question ID : 6306801015333 Option 1 ID : 6306803984920 Option 2 ID : 6306803984921 Option 3 ID : 6306803984919 Option 4 ID : 6306803984918 Status : Answered D Chosen Option :
Q.48 एमएस पॉवरपॉइंट म, लाइड सॉर्ट रू (Slide Sorter view) को कैसे ात किया जा सकता है? Ans A. Insert > Slide Sorter B. Design > Slide Sorter C. Home > Layout D. View > Slide Sorter	Question ID : 6306801063892 Option 1 ID : 6306804177916 Option 2 ID : 6306804177918 Option 3 ID : 6306804177915 Option 4 ID : 6306804177917 Status : Answered D Chosen Option :
Q.49 Which of the following statements regarding the 'Draw Table' feature in MS Word 2019 is correct? Ans A. It enables the creation of a table with only 5 rows and 5 columns. B. It is not recommended for creating tables due to its limited functionality. C. It can only be accessed through the Advanced Settings menu. D. It provides a quick and flexible way to create tables with irregular shapes and sizes.	Question ID : 630680785793 Option 1 ID : 6306803079262 Option 2 ID : 6306803079265 Option 3 ID : 6306803079264 Option 4 ID : 6306803079263 Status : Answered D Chosen Option :

Q.50

Select the most appropriate statement regarding FETs and MOSFETs.

Ans

A. FET amplifier provides very high voltage gain, much greater than 100.

B. An N-channel FET operates with respect to variation in the negative gate to source voltage.

C. The operating Transfer characteristics of N-channel Enhancement type MOSFET is same as N-channel Depletion type MOSFET.

D. FETs and MOSFETs have low input impedance.

Question ID : 6306801004838

Option 1 ID : 6306803943210

Option 2 ID : 6306803943212

Option 3 ID : 6306803943211

Option 4 ID : 6306803943209

Status : Answered B

Chosen Option :

Q.51

An R-C series AC circuit has resistance of 15 Ω and capacitive reactance (X_C) of 15 Ω. If it is connected to an AC voltage source, the phase angle between voltage and current will be:

Ans

A. 90°

B. 0°

C. 45°

D. 30°

Question ID : 630680383100

Option 1 ID : 6306801493310

Option 2 ID : 6306801493307

Option 3 ID : 6306801493309

Option 4 ID : 6306801493308

Status : Answered A

Chosen Option :

Q.52

What is one advantage of mineral wool insulation compared to other insulation materials?

Ans

A. It is highly flammable.

B. It requires additional chemicals to be fire resistant.

C. It is made from organic materials.

✔

D. It doesn't require extra chemicals for fire resistance.

Question ID : 6306801029983

Option 1 ID : 6306804042629

Option 2 ID : 6306804042627

Option 3 ID : 6306804042630

Option 4 ID : 6306804042628

Status : Answered D

Chosen Option :

Q.53

Which of the following tabs in the Menu bar provides Spelling and Grammar check, Thesaurus, Word Count, Comments and Tracking options for documents in Microsoft Word?

Ans

✔

A. Review

B. View

C. References

D. Design

Question ID : 630680764257

Option 1 ID : 6306802995602

Option 2 ID : 6306802995601

Option 3 ID : 6306802995599

Option 4 ID : 6306802995600

Status : Answered A

Chosen Option :

Q.54

What is the primary purpose of preparing a supplementary estimate during a project's execution?

Ans

A. To allocate tasks among team members

B. To address changes or additions to the original scope of work

C. To evaluate the project's progress

D. To develop a final project report

Question ID : 6306801007467

Option 1 ID : 6306803953562

Option 2 ID : 6306803953560

Option 3 ID : 6306803953559

Option 4 ID : 6306803953561

Status : Answered B

Chosen Option :

Q.55Which of the following statements is FALSE regarding SISO shift register?

Ans

A. To shift n-bit data, we need (n-1) clock pulses.

B. The serial shifting method shifts one bit at a time.

C. The data within the register may be shifted from left to right or right to left.

D. SISO register can be designed using JK or D-flip flop.

Question ID : 630680405324

Option 1 ID : 6306801580557

Option 2 ID : 6306801580555

Option 3 ID : 6306801580556

Option 4 ID : 6306801580554

Status : Answered D

Chosen Option :

Q.56Which factor primarily affects the efficiency of a synchronous generator in addition to core and copper losses?

Ans

A. The power factor of the load

B. The type of cooling system

C. The speed of the generator's rotor

D. The ambient temperature surrounding the generator

Question ID : 6306801007694

Option 1 ID : 6306803954443

Option 2 ID : 6306803954446

Option 3 ID : 6306803954445

Option 4 ID : 6306803954444

Status : Answered A

Chosen Option :

Q.57What adjustment is made to the photometer head during the measurement process?

Ans

A. It is rotated in a horizontal plane. B. It is elevated to a specific height. C. It is tilted to match the angle of the light sources.

D. It is moved between the two light sources until the illumination on both sides is equal.

Question ID : 6306801029992

Option 1 ID : 6306804042663

Option 2 ID : 6306804042665

Option 3 ID : 6306804042666

Option 4 ID : 6306804042664

Status : Answered A

Chosen Option :

Q.58Under what circumstances are tenders typically invited?

Ans

A. Only when a contract is worth more than a certain amount

B. When the contract is exempt from standard procedures

C. Only when no other suppliers are available

D. When it is practicable and advantageous, particularly for contracts involving 'work' or 'repairs'

Question ID : 6306801029437

Option 1 ID : 6306804040377

Option 2 ID : 6306804040380

Option 3 ID : 6306804040379

Option 4 ID : 6306804040378

Status : Answered A

Chosen Option :

Q.59The function of the bleeder resistor in an inductor-capacitor (LC) filter output is _____.

Ans

A. to maintain a maximum current through the inductor

B. to stop the current passing through the choke

C. to maintain a minimum current through the inductor

D. to charge the capacitor

Question ID : 630680195580

Option 1 ID : 630680758790

Option 2 ID : 630680758789

Option 3 ID : 630680758791

Option 4 ID : 630680758792

Status : Answered C

Chosen Option :

Q.60A student wants to print the slides of his/her presentation to show to his/her teacher. However, the student does not have enough papers to print one slide on each page. He/she decides to print two slides per page. Which command should he/she use in the Print dialog box?

Ans

A. Handouts

B. Outline View

C. Notes Page

D. Slides

Question ID : 630680787725

Option 1 ID : 6306803086705

Option 2 ID : 6306803086706

Option 3 ID : 6306803086704

Option 4 ID : 6306803086707

Status : Answered D

Chosen Option :

Q.61 Which of the following documents is typically included in a detailed estimate for a project?

Ans

A. Sales forecast

B. Specification

C. Customer feedback

D. Marketing analysis

Question ID : 6306801005348

Option 1 ID : 6306803945230

Option 2 ID : 6306803945229

Option 3 ID : 6306803945231

Option 4 ID : 6306803945228

Status : Answered B

Chosen Option :

Q.62 न वदाआ कोकहाँ खोलाजाताहै ?

Ans

A. अथी णअ भयंताखरद), पंचकुला के काया लय म

B. प रयोजना थल काया लय म

C. मु य अ भयंताकेकाया लयम

D. ठेकेदार के काया लयम

Question ID : 6306801005307

Option 1 ID : 6306803945074

Option 2 ID : 6306803945075

Option 3 ID : 6306803945073

Option 4 ID : 6306803945072

Status : Answered C

Chosen Option :

Q.63The total magnitude of the current (in ampere) entering a junction 'A' is given by (4 – x) and that of the current leaving the same junction is given by (2 + x). What is the total value of the current entering the junction?

Ans

A. 3 A

B. 4 A

C. 2 A

D. 1 A

Question ID : 630680383087

Option 1 ID : 6306801493257

Option 2 ID : 6306801493258

Option 3 ID : 6306801493256

Option 4 ID : 6306801493255

Status : Answered D

Chosen Option :

Q.64A memory has capacity in nibbles and bytes. The nibble and byte, respectively, have:

Ans

A. 2 bits and 8 bits

B. 4 bits and 2 bits

C. 4 bits and 8 bits

D. 8 bits and 2 bits

Question ID : 630680388671

Option 1 ID : 6306801515147

Option 2 ID : 6306801515148

Option 3 ID : 6306801515149

Option 4 ID : 6306801515146

Status : Answered C

Chosen Option :

Q.65The voltage drop due to armature resistance in an alternator can be minimised by _____. Ans A. increasing excitation voltage B. reducing excitation voltage C. decreasing the armature resistance D. increasing the armature resistance	Question ID : 630680638984 Option 1 ID : 6306802501743 Option 2 ID : 6306802501742 Option 3 ID : 6306802501740 Option 4 ID : 6306802501741 Status : Answered C Chosen Option :
Q.66 The flag register of 8085 has _____ flags. Ans A. 7 B. 5 C. 4 D. 6	Question ID : 6306801015306 Option 1 ID : 6306803984813 Option 2 ID : 6306803984811 Option 3 ID : 6306803984810 Option 4 ID : 6306803984812 Status : Answered A Chosen Option :
Q.67What does the Absorption Factor represent? Ans A. The difference between the total lumens emitted by the source of light and the net lumens available after absorption B. The product of total lumens emitted by the source of light and the net lumens available after absorption C. The ratio of net lumens available after absorption to the total lumens emitted by the source of light D. The ratio of total lumens emitted by the source of light to the net lumens available after absorption	Question ID : 6306801029988 Option 1 ID : 6306804042648 Option 2 ID : 6306804042650 Option 3 ID : 6306804042649 Option 4 ID : 6306804042647 Status : Answered C Chosen Option :
Q.68A polarity test can be performed using _____ measurements with the transformer on _____. Ans A. voltage; no load B. current; no load C. voltage; load D. current; load	Question ID : 6306801003797 Option 1 ID : 6306803939381 Option 2 ID : 6306803939383 Option 3 ID : 6306803939382 Option 4 ID : 6306803939384 Status : Answered B Chosen Option :

Q.69

Ans

A. is $F(A,B,C) = \sum (0,2,4,6)$

B. is $F(A,B,C) = \sum (1,3,5,6)$

C. cannot be determined because of inadequate data

D. is $F(A,B,C) = \sum (1,2,3,5,7)$

Question ID : 630680388656

Option 1 ID : 6306801515088

Option 2 ID : 6306801515087

Option 3 ID : 6306801515086

Option 4 ID : 6306801515089

Status : Answered B

Chosen Option :

Q.70Which of the following combinations represents variable losses in the DC machines?

Ans

A. Series field copper loss and armature copper loss

B. Mechanical loss and series field copper loss

C. Armature copper loss and mechanical loss

D. Shunt field loss and armature copper loss

Question ID : 630680999829

Option 1 ID : 6306803923463

Option 2 ID : 6306803923460

Option 3 ID : 6306803923461

Option 4 ID : 6306803923462

Status : Answered D

Chosen Option :

Q.71Who is known as the 'father of computers' for his conceptual design of the Analytical Engine?

Ans

A. Charles Babbage

B. Alan Turing

C. Konrad Zuse

D. John Von Neumann

Question ID : 630680817220

Option 1 ID : 6306803200968

Option 2 ID : 6306803200966

Option 3 ID : 6306803200969

Option 4 ID : 6306803200967

Status : Answered D

Chosen Option :

Q.72MOD 7 counter can count till max ____ states.

Ans

A. five

B. seven

C. eight

D. six

Question ID : 6306801015237

Option 1 ID : 6306803984529

Option 2 ID : 6306803984527

Option 3 ID : 6306803984526

Option 4 ID : 6306803984528

Status : Answered A

Chosen Option :

Ans

- A. $\frac{\text{Star}}{\text{Delta}}$ connection
- B. $\frac{\text{Delta}}{\text{Star}}$ connection
- C. $\frac{\text{Star}}{\text{Star}}$ connection
- D. $\frac{\text{Star}}{\text{Star}}$ connection

Chosen Option :

Ans

- A. 260 A
- B. 460 A
- C. 560 A
- D. 360 A

Chosen Option :

Ans

- A. To transfer the data
- B. To manage stack memory
- C. To store temporary data
- D. To perform logical operations

Chosen Option :

Q 76 Meban invests a sum

Ans

- A. 2.5
- B. 4.5
- C. 1.5
- D. 3.5

Chosen Option :

Q.77

गोपाल किसी काय को 12 घंटे म पूरा कर सकता है। अ य उसी काय को 28 घंटे म पूरा कर सकता है। अतुल क सहायता से, उ ह नेकाय को 7 घंटे म पूरा कर लिया। अतुल को अकेले उसी काय का दोगुना काय करने ेम कतने घंटे लगगे ? े

Ans

A. 84

B. 83

C. 86

D. 85

Question ID : 6306801063172

Option 1 ID : 6306804175047

Option 2 ID : 6306804175048

Option 3 ID : 6306804175050

Option 4 ID : 6306804175049

Status : Answered B

Chosen Option :

Q.78

The average of first 103 odd natural numbers, is:

Ans

A. 102

B.

51.5 C.

~~50.5~~ 104

Question ID : 630680551970

Option 1 ID : 6306802158107

Option 2 ID : 6306802158108

Option 3 ID : 6306802158105

Option 4 ID : 6306802158106

Status : Answered A

Chosen Option :

Q.79

The speed of a truck is 9 metres/second. The distance (in kilometres) travelled by the truck in 7 hours and 30 minutes is:

Ans

A. 248

B. 241

C. 247

 D. 243

Question ID : 6306801063184

Option 1 ID : 6306804175098

Option 2 ID : 6306804175097

Option 3 ID : 6306804175096

Option 4 ID : 6306804175095

Status : Answered A

Chosen Option :

Q.80

The difference between the compound interest (when interest is compounded annually) and the simple interest if ₹1200 is deposited at 10% rate of interest per annum for 2 years is:

Ans

 A. ₹912

B.

₹916.2

C.

₹917.2

D.

₹914.6

Question ID : 630680809147

Option 1 ID : 6306803170167

Option 2 ID : 6306803170168

Option 3 ID : 6306803170170

Option 4 ID : 6306803170169

Status : Answered A

Chosen Option :

Q.81

The monthly incomes of two friends Nirmal and Rakesh, are in the ratio 5 : 7 respectively and each of them saves ₹99000 every month. If the ratio of their monthly expenditure is 2 : 4, find the monthly income of Nirmal(in ₹).

Ans

A. 164000

B. 165000

C. 231000

D.

166000

Question ID : 630680591847

Option 1 ID : 6306802315857

Option 2 ID : 6306802315855

Option 3 ID : 6306802315858

Option 4 ID : 6306802315856

Status : Answered B

Chosen Option :

Q.82

The distance (rounded off to one decimal place) between two points on a map is 3 cm. The scale of the map is 1 : 610119. The actual distance (rounded off to two decimal place) between the two points (in km) is:

Ans

A. 22.1

B. 22.4

C. 20.4

D. 18.3

Question ID : 630680789699

Option 1 ID : 6306803094579

Option 2 ID : 6306803094578

Option 3 ID : 6306803094577

Option 4 ID : 6306803094576

Status : Answered B

Chosen Option :

Q.83

₹1171 is divided among Rekha, Sanjay, and Poonam in such a way that if ₹20, ₹17, and ₹14 be deducted from their respective shares, they have money in the ratio 3:15:10. Find Sanjay's share.

Ans

A.

₹750

B.

₹700

C.

₹500

Question ID : 6306801063178

Option 1 ID : 6306804175072

Option 2 ID : 6306804175073

Option 3 ID : 6306804175074

Option 4 ID : 6306804175071

Status : Answered A

Chosen Option :

Q.84

A trader offers a discount of 6% on an article if a customer makes the payment in cash. How much percentage above the cost price should he mark the article to make a profit of 6%? [Give your answer rounded off to 2 decimal places.]

Ans

A.

18.87%

B.

16.32%

C.

12.86%

Question ID : 630680862766

Option 1 ID : 6306803378954

Option 2 ID : 6306803378953

Option 3 ID : 6306803378952

Option 4 ID : 6306803378951

Status : Answered B

Chosen Option :

Q.85

On selling an iron for ₹1,260, Arman loses 16%. At what price should he sell it to get an 18% profit?

Ans

A. ₹1,480

B. ₹1,770

C.

₹1,340

D.

₹1,590

Question ID : 630680615257

Option 1 ID : 6306802407703

Option 2 ID : 6306802407705

Option 3 ID : 6306802407702

Option 4 ID : 6306802407704

Status : Answered A

Chosen Option :

Q.86

The speed of a stream downstream is 48 km/h and the speed of current is 12 km/h. Find the total time taken by the stream to cover the distance of 60 km upstream and 60 km downstream.

Ans

A. 2 hours 36 minutes

B. 3 hours 52 minutes

C. 3 hours 45 minutes

D. 4 hours 15 minutes

Question ID : 630680572074

Option 1 ID : 6306802237156

Option 2 ID : 6306802237158

Option 3 ID : 6306802237157

Option 4 ID : 6306802237159

Status : Answered B

Chosen Option :

Q.87

Ans

A. 41.13

B. 44.69

C. 42.95

D. 45.07

Question ID : 630680855860

Option 1 ID : 6306803352143

Option 2 ID : 6306803352145

Option 3 ID : 6306803352142

Option 4 ID : 6306803352144

Status : Answered A

Chosen Option :

Q.88The HCF of two numbers is 74 and their LCM is 12210. If one of the numbers is 1110, what is the sum of the two numbers?

Ans

A. 1568

B. 1924

C. 1244

D. 1429

Question ID : 630680594830

Option 1 ID : 6306802327407

Option 2 ID : 6306802327408

Option 3 ID : 6306802327406

Option 4 ID : 6306802327405

Status : Answered B

Chosen Option :

Q.89In a workshop, the number of participants in English, Sanskrit and Science are 144, 192 and 288, respectively. Find the minimum number of rooms required, if in each room, the same number of participants are to be seated and all of them being in the same subject.

Ans

A. 15

B. 12

C. 13

D. 9

Question ID : 630680467079

Option 1 ID : 6306801824272

Option 2 ID : 6306801824270

Option 3 ID : 6306801824271

Option 4 ID : 6306801824269

Status : Answered C

Chosen Option :

Q.90A man receives ₹6400 per month as salary. He saves 44% of his salary every month. His expenditure (in ₹) per month is:

Ans

A. 3584

B. 3612

C. 3631

D. 3523

Question ID : 630680789130

Option 1 ID : 6306803092300

Option 2 ID : 6306803092302

Option 3 ID : 6306803092301

Option 4 ID : 6306803092303

Status : Answered A

Chosen Option :

Section : General Awareness

Q.91As per the Census of India 2011, which of the following Union Territories recorded the lowest population growth rate?

Ans

A. Puducherry

B. Lakshadweep

C. Andaman and Nicobar Islands

D. Chandigarh

Question ID : 630680929733

Option 1 ID : 6306803643749

Option 2 ID : 6306803643750

Option 3 ID : 6306803643747

Option 4 ID : 6306803643748

Status : Answered A

Chosen Option :

Q.92 भारतीय संवधान कस अनुद के अंतगत कसी रा य म रा प त शासन लगाने क अनुम त देता है?

Ans

A. अनुद 352

B. अनुद 256

C. अनुद 356

D. अनुद 368

Question ID : 630680942589

Option 1 ID : 6306803694795

Option 2 ID : 6306803694794

Option 3 ID : 6306803694796

Option 4 ID : 6306803694797

Status : Answered C

Chosen Option :

Q.93 नंदा देवी शखर भारत क कस पवत ूखला म त है?

Ans

A. हमालय

B. अरावली

C. पूव घाट

D. प मी घाट

Question ID : 630680929700

Option 1 ID : 6306803643607

Option 2 ID : 6306803643608

Option 3 ID : 6306803643610

Option 4 ID : 6306803643609

Status : Answered A

Chosen Option :

Q.94Which Fundamental Right is protected under Article 21 of the Indian Constitution?

Ans

A. Right to Education

B. Right to Constitutional Remedies

C. Right to Freedom of Speech and Expression

✓

D. Right to Protection of Life and Personal Liberty

Question ID : 630680942538

Option 1 ID : 6306803694597

Option 2 ID : 6306803694596

Option 3 ID : 6306803694594

Option 4 ID : 6306803694595

Status : Answered B

Chosen Option :

Q.95Who wrote the book 'Boundary Lab: Inside the Global Experiment Called Sport'?

Ans

✓

A. Nandan Kamath

B. Harish Salve

C. Mukul Rohatgi

D. Gopal Subramaniam

Question ID : 630680967886

Option 1 ID : 6306803796063

Option 2 ID : 6306803796064

Option 3 ID : 6306803796065

Option 4 ID : 6306803796066

Status : Answered C

Chosen Option :

Q.96Who among the following was appointed as the Chief of Army Staff in June 2024?

Ans

A. Vijay Kumar Singh

B. Manoj Pande

C. Dalbir Singh Suhag

D. Upendra Dwivedi

Question ID : 630680943276

Option 1 ID : 6306803697500

Option 2 ID : 6306803697498

Option 3 ID : 6306803697499

Option 4 ID : 6306803697497

Status : Answered A

Chosen Option :

Q.97Which of the following kitchen ingredients is NOT acidic in nature?	
Ans	A. Vinegar B. Lemon juice C. Baking soda D. Tamarind
Question ID : 630680942467 Option 1 ID : 6306803694316 Option 2 ID : 6306803694315 Option 3 ID : 6306803694317 Option 4 ID : 6306803694318 Status : Answered C Chosen Option :	
Q.982024 म, न न ल खत म से कस रा य सरकार के ारा, राजीव आरो यी काय म के अंतगत ₹10 लाख तक क मु त च क सा और वा य सेवा दान करने के लए चेयुथा क म शु क गई?	
Ans	A. ओ देश B. त मलनाडु C. गुजरात D. तेलंगाना
Question ID : 630680946398 Option 1 ID : 6306803710313 Option 2 ID : 6306803710315 Option 3 ID : 6306803710316 Option 4 ID : 6306803710314 Status : Answered B Chosen Option :	
Q.99Which Bill was proposed in 1883 to give Indian judges and magistrates the power to hear or preside over cases involving British subjects in India?	
Ans	A. Judiciary bill B. Tenancy bill C. Ilbert Bill D. Arms bill
Question ID : 630680990532 Option 1 ID : 6306803886480 Option 2 ID : 6306803886482 Option 3 ID : 6306803886483 Option 4 ID : 6306803886481 Status : Answered C Chosen Option :	
Q.100 बुदाती भाषा भारत के न न ल खत म से कस रा य के प मीे म बोली जाती है?	
Ans	A. छीसगढ़ B. पुरा C. हमाचल देश D. महारा
Question ID : 630680990567 Option 1 ID : 6306803886606 Option 2 ID : 6306803886605 Option 3 ID : 6306803886607 Option 4 ID : 6306803886604 Status : Answered B Chosen Option :	