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(Electrical)**

29 Sept, 2024 Shift 1

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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.10 In 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.11 A 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.12 The _____ 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 :

Q.18 Why is it necessary to assess the after-sales service arrangement and its cost during tender evaluation?

- 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

Question ID : 6306801029431
Option 1 ID : 6306804040351
Option 2 ID : 6306804040354
Option 3 ID : 6306804040353
Option 4 ID : 6306804040352
Status : Answered B
Chosen Option :

Q.19 Which of the following reasons does NOT cause any change in terminal voltage of an alternator with change in load?

- 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

Question ID : 6306801005851
Option 1 ID : 6306803947237
Option 2 ID : 6306803947239
Option 3 ID : 6306803947238
Option 4 ID : 6306803947236
Status : Answered D
Chosen Option :

Q.20 Which of the following statements are correct about damper winding in a synchronous motor?

- I. Damper windings are used to provide excitation to field winding.
- II. Damper windings are typically connected to the stator of the synchronous motor.
- III. Damper windings help to minimise hunting and improving stability.
- IV. When the motor runs at synchronous speed, the damper winding does not carry any current.

- 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

Question ID : 630680629374
Option 1 ID : 6306802499945
Option 2 ID : 6306802499942
Option 3 ID : 6306802499944
Option 4 ID : 6306802499943
Status : Answered D
Chosen Option :

Q.21 _____ is a combination of a strain gauge with an elastic member used for the measurement of load or weight.

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

Question ID : 630680205132
Option 1 ID : 630680795394
Option 2 ID : 630680795393
Option 3 ID : 630680795391
Option 4 ID : 630680795392
Status : Answered B
Chosen Option :

Q.22 A 6 pole wave connected armature has 200 conductors and runs at 1000 RPM. The emf generated is 600 volts. Find the useful flux per pole.

- 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.23 What 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

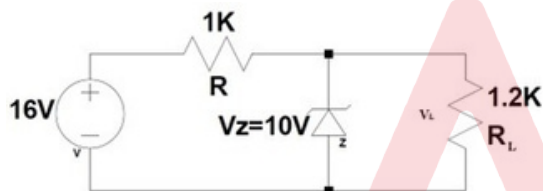
Question ID : 6306801029251
Option 1 ID : 6306804039627
Option 2 ID : 6306804039628
Option 3 ID : 6306804039626
Option 4 ID : 6306804039629
Status : Answered B
Chosen Option :

Q.24 How 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.25 For 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.26 Which 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.27The 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.28The 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

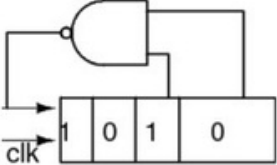
Option 3 ID : 6306803922712

Option 4 ID : 6306803922710

Status : Marked For Review

Chosen Option : A

Q.29In 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.30The 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.36 Read 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.37 For 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.38 उपरोक्त गुणों पर कमरे के आकार और द वार के रंग का या भाव पड़ता है?

- Ans ☒ A. ह के रंग द वार वाले बड़े कमरे के लए कम
☒ B. ह के रंग द वार वाले बड़े कमरे के लए अधिक
☒ C. गहरे रंग द वार वाले बड़े कमरे के लए कम
☒ D. गहरे रंग वाले छोटे कमरे के लए अधिक

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.39 Pull 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.40 Which 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.41 Kelvin Double bridge is used for the measurement of _____.

- Ans ☒ A. high resistance in the range of mega ohms
☒ B. low resistance less than $1\ \Omega$ C.
☒ resistance greater than $1K\ \Omega$ D.
☒ medium resistance greater than $1\ \Omega$

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.42 What is the tensile strength range of wood?

- Ans ☒ A. $700-1200\ \text{kg/cm}^2$
☒ B. $100-300\ \text{kg/cm}^2$
☒ c. $300-500\ \text{kg/cm}^2$
☒ D. $500-700\ \text{kg/cm}^2$

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.43 Select 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 कया 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.56 Which 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.65 The 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.67 What 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 :

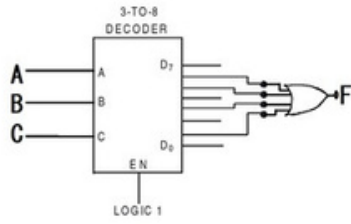
Q.68 A polarity test can be performed using _____ measurements with the transformer on _____.

- 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

The output of the following decoder circuit _____.



- 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 :

Q.73Which of the following type of connections is most economical for small and high voltage transformers, if the load is balanced?

Ans

☒

A.

Delta

Delta

connection

☒

B.

Star

Delta

connection

☒

C.

Delta

Star

connection

☒

D.

Star

Star

connection

Question ID : 630680227827

Option 1 ID : 630680883983

Option 2 ID : 630680883985

Option 3 ID : 630680883986

Option 4 ID : 630680883984

Status : Answered C

Chosen Option :

Q.74In case of class B commutation or resonant-pulse commutation with $L = 5\text{ }\mu\text{H}$ and $C = 20\text{ }\mu\text{C}$ with initial voltage across the capacitor (V_s) = 230 V, find the peak value of resonant current.

Ans

☒

A. 260 A

☒

B. 460 A

☒

C. 560 A

☒

D. 360 A

Question ID : 630680352182

Option 1 ID : 6306801370828

Option 2 ID : 6306801370826

Option 3 ID : 6306801370825

Option 4 ID : 6306801370827

Status : Answered A

Chosen Option :

Q.75What is the use of stack pointer in 8085 microprocessors?

Ans

☒

A. To transfer the data

☒

B. To manage stack memory

☒

C. To store temporary data

☒

D. To perform logical operations

Question ID : 6306801015311

Option 1 ID : 6306803984832

Option 2 ID : 6306803984831

Option 3 ID : 6306803984830

Option 4 ID : 6306803984833

Status : Answered B

Chosen Option :

Section : Numerical Ability

Q.76Mohan invests a sum of ₹5400 and Varun invests a sum of ₹10200 at the same rate of simple interest per annum. If, at the end of 5 years, Varun gets ₹600 more interest than Mohan, then find the rate of interest per annum (in percentage).

Ans

☒

A. 2.5

☒

B. 4.5

☒

C. 1.5

☒

D. 3.5

Question ID : 630680613593

Option 1 ID : 6306802401104

Option 2 ID : 6306802401106

Option 3 ID : 6306802401107

Option 4 ID : 6306802401105

Status : Answered B

Chosen Option :

Q.77 गोपाल कसी काय को 12 घंटे म पूरा कर सकता है। अय 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 अकैले 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.78The average of first 103 odd natural numbers, is:

Ans

✗ A. 102

✗ B.

✓ 51.5 C.

✗ 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.79The 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.80The difference between the compound interest (when interest is compounded annually) and the simple interest if ₹91200 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.81The 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.
 - ☐ B. ₹750
 - ☐ C.
 - ☒ D. ₹700
 - ☐ E. ₹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.
 - ☐ B. 18.87%
 - ☐ C.
 - ☒ D. 16.37%
 - ☐ E. 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.
 - ☐ D. ₹1,340
 - ☐ E. ₹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

A cylindrical rod has an outer curved surface area of 5400 cm². If the length of the rod is 20 cm, then the outer radius (in cm) of the rod, correct to two places of decimal, is: Take $\pi = \frac{22}{7}$

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.88

The 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.89

In 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.90

A 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.91

As 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 टूखला 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 लिए 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 :