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IB JIO

Previous Year Paper

Grade-II (Tech)

22 July, 2023 Shift 1

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INTELLIGENCE BUREAU

(Ministry of Home Affairs)

Government of India

Participant ID	
Participant Name	
Test Center Name	
Test Date	22/07/2023
Test Time	8:30 AM - 10:30 AM
Subject	IB JIO II Tech

Section : **General Mental Ability**

Q.1 **If 19 August 2001 is a Sunday, then what will be the day of the week on 15 May 2010?**

Ans

✗ 1. Tuesday

✗ 2. Monday

✓ 3. Saturday

✗ 4. Sunday

Question ID : **630680261468**
Option 1 ID : **6306801015538**
Option 2 ID : **6306801015537**
Option 3 ID : **6306801015535**
Option 4 ID : **6306801015536**
Status : **Not Answered**
Chosen Option : **--**

Q.2 **Mohit starts from point Y and drives 6 km towards south. He then takes a left turn, drives 23 km, turns right and drives 27 km. He then takes a right turn and drives 11 km. He takes a right turn, drives 13 km. He then turns right, drives 19 km, turns left and drives 20 km to stop at point Z. How far (shortest distance) and towards which direction should he drive in order to reach point Y again? (All turns are 90 degrees turns only unless specified.)**

Ans

✗ 1. 33 km towards north

✗ 2. 42 km towards east

✓ 3. 31 km towards west

✗ 4. 34 km towards west

Question ID : **630680251652**
Option 1 ID : **630680976611**
Option 2 ID : **630680976614**
Option 3 ID : **630680976612**
Option 4 ID : **630680976613**
Status : **Answered**
Chosen Option : **3**

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Q.3 **In this question, two statements numbered I and II have been given. These statements may be independent causes or effects of independent causes or a common cause. One of the two statements may be the effect of the other statement. Read both the statements and select the correct answer.**
Statements:
I) India has seen an immense growth of the fintech industry in the last few years.
II) Internet has seen sharp penetration in India in the past few years.

Ans
✗ 1. Both I and II are effects of independent causes
✓ 2. II is the cause and I is its possible effect
✗ 3. Both I and II are independent causes
✗ 4. I is the cause and II is its possible effect

Question ID : **630680251554**
Option 1 ID : **630680976222**
Option 2 ID : **630680976220**
Option 3 ID : **630680976221**
Option 4 ID : **630680976219**
Status : **Answered**
Chosen Option : **1**

Q.4 **In a certain code language, 'it is hot' is written as 'yt bv ds' and 'i did it' is written as 're ds fg'. How is 'it' written in the given language?**

Ans
✓ 1. ds
✗ 2. yt
✗ 3. fg
✗ 4. re

Question ID : **630680261481**
Option 1 ID : **6306801015589**
Option 2 ID : **6306801015587**
Option 3 ID : **6306801015588**
Option 4 ID : **6306801015590**
Status : **Answered**
Chosen Option : **1**

Q.5 **A, B, C, D, E, and F, each have different heights. Only one person is taller than C. The shortest height is 160 cm. A is 170 cm tall. The tallest height is 174 cm. F is shorter than A but taller than D. B is not 160 cm tall. D is 162 cm tall.**
What can be the possible height of F?

Ans
✗ 1. 161 cm
✗ 2. 172 cm
✗ 3. 171 cm
✓ 4. 166 cm

Question ID : **630680265541**
Option 1 ID : **6306801031646**
Option 2 ID : **6306801031643**
Option 3 ID : **6306801031644**
Option 4 ID : **6306801031645**
Status : **Answered**
Chosen Option : **4**

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Q.6 **What should come in place of the question mark (?) in the given series?**
2, 4, 8, 16, ?, 64

Ans
✗ 1. 30
✗ 2. 89
✓ 3. 32
✗ 4. 28

Question ID : **630680262593**
Option 1 ID : **6306801020013**
Option 2 ID : **6306801020011**
Option 3 ID : **6306801020014**
Option 4 ID : **6306801020012**
Status : **Answered**
Chosen Option : **3**

Q.7 **A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor, which is numbered 6. F lives on floor number 5. D lives on an odd numbered floor but not on floor number 3. Only two people live between B and E. C lives on a floor immediately below E.**
Who lives on floor number 4?

Ans
✗ 1. E
✓ 2. A
✗ 3. F
✗ 4. C

Question ID : **630680262533**
Option 1 ID : **6306801019772**
Option 2 ID : **6306801019773**
Option 3 ID : **6306801019771**
Option 4 ID : **6306801019774**
Status : **Answered**
Chosen Option : **2**

Q.8 **Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.**
Statements: Some roses are sunflowers. No rose is a lily. Some lilies are marigolds.
Conclusions (I): Some marigolds may be sunflowers.
Conclusions (II): No lily is a sunflower.

Ans
✗ 1. Only conclusion (II) follows
✓ 2. Only conclusion (I) follows
✗ 3. Both conclusions (I) and (II) follow
✗ 4. Neither conclusion (I) nor conclusion (II) follows

Question ID : **630680251533**
Option 1 ID : **630680976136**
Option 2 ID : **630680976135**
Option 3 ID : **630680976137**
Option 4 ID : **630680976138**
Status : **Answered**
Chosen Option : **2**

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Q.9 **Vijay starts from point Y and drives 7 km towards South. He then takes a left turn, drives 28 km, turns right and drives 26 km. He then takes a right turn and drives 11 km. He takes a right turn, drives 19 km. He then turns left, drives 17 km, and turns left and drives 8 km to stop at point Z. How far (shortest distance) and towards which direction should he drive in order to reach point Y again? (All turns are 90 degree turns only unless specified.)**

Ans

✗ 1. 15 km towards south

✗ 2. 17 km towards north

✗ 3. 23 km towards south

✓ 4. 22 km towards north

Question ID : **630680251649**
Option 1 ID : **630680976599**
Option 2 ID : **630680976601**
Option 3 ID : **630680976600**
Option 4 ID : **630680976602**
Status : **Answered**
Chosen Option : **4**

Q.10 **BCDF is related to EFGI in a certain way based on the English alphabetical order. In the same way, FGHJ is related to IJKM. To which of the following is NOPR related, following the same logic?**

Ans

✓ 1. QRSU

✗ 2. QNPU

✗ 3. ONPQ

✗ 4. ORSQ

Question ID : **630680261487**
Option 1 ID : **6306801015612**
Option 2 ID : **6306801015613**
Option 3 ID : **6306801015611**
Option 4 ID : **6306801015614**
Status : **Answered**
Chosen Option : **1**

Q.11 **Which of the following options is the closest approximate value that should come in place of the question mark (?) in the following equation?**

14.99 ÷ 5.01 x 9.99 – 6.99 = ?

Ans

✗ 1. −7

✗ 2. 1

✓ 3. 23

✗ 4. 9

Question ID : **630680264601**
Option 1 ID : **6306801027907**
Option 2 ID : **6306801027910**
Option 3 ID : **6306801027909**
Option 4 ID : **6306801027908**
Status : **Answered**
Chosen Option : **3**

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Q.12 If 2 is added to each odd digit and 1 is subtracted from each even digit in the number 8763154, how many digits will appear more than once in the new number thus formed?

Ans
- ✗ 1. 4
- ✗ 2. 1
- ✓ 3. 3
- ✗ 4. 2

Question ID : **630680251561**
Option 1 ID : **630680976250**
Option 2 ID : **630680976247**
Option 3 ID : **630680976249**
Option 4 ID : **630680976248**
Status : **Answered**
Chosen Option : **2**

Q.13 Three of the following number pairs are alike in some manner and hence form a group. Which number pair does NOT belong to that group?
(NOTE : Operations should be performed on the whole numbers, without breaking down the number into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans
- ✗ 1. 18 – 166
- ✗ 2. 31 – 283
- ✗ 3. 14 – 130
- ✓ 4. 23 – 217

Question ID : **630680251682**
Option 1 ID : **630680976731**
Option 2 ID : **630680976732**
Option 3 ID : **630680976733**
Option 4 ID : **630680976734**
Status : **Answered**
Chosen Option : **4**

Q.14 If 2 is added to each odd digit and 1 is subtracted from each even digit in the number 7185634, what will be the sum of the digits which are second from the left end and second from the right end in the new number thus formed?

Ans
- ✗ 1. 12
- ✗ 2. 6
- ✗ 3. 10
- ✓ 4. 8

Question ID : **630680263940**
Option 1 ID : **6306801025402**
Option 2 ID : **6306801025399**
Option 3 ID : **6306801025401**
Option 4 ID : **6306801025400**
Status : **Not Answered**
Chosen Option : **--**

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Q.15 **In a certain code language, 'he knows French' is written as 'kl hg nb' and 'who is he' is written as 'hg gf xc'. How is 'he' written in the given language?**

Ans

✗ 1. xc

✓ 2. hg

✗ 3. kl

✗ 4. nb

Question ID : **630680261480**
Option 1 ID : **6306801015584**
Option 2 ID : **6306801015583**
Option 3 ID : **6306801015585**
Option 4 ID : **6306801015586**
Status : **Answered**
Chosen Option : **2**

Q.16 **Question: Among 6 trees, A, B, C, D, E and F each having a different height, which tree is the third tallest?**
Statement:
(I) B is shorter than only D. C is taller than E but shorter than A and F.
(II) C is shorter than four other trees. B is taller than A and E but shorter than D. F is not the tallest.

Ans

✗ 1. Data in Statement I alone is sufficient to answer the question while data in statement II is not.

✗ 2. Data in Statement II alone is sufficient to answer the question while data in statement I is not.

✗ 3. Data in statements I and II together are sufficient to answer the question.

✓ 4. Data in statements I and II together are NOT sufficient to answer the question.

Question ID : **630680251562**
Option 1 ID : **630680976251**
Option 2 ID : **630680976252**
Option 3 ID : **630680976253**
Option 4 ID : **630680976254**
Status : **Answered**
Chosen Option : **4**

Q.17 **L, M, N, O, P and Q live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor, which is numbered 6.**
P lives on an even numbered floor but not on floor number 6. Only two people live between P and L. No one lives below L. N lives on a floor immediately above O. O lives on floor number 5. Q lives on a floor between L and M.
Who lives on floor number 3?

Ans

✗ 1. Q

✓ 2. M

✗ 3. L

✗ 4. P

Question ID : **630680262532**
Option 1 ID : **6306801019768**
Option 2 ID : **6306801019770**
Option 3 ID : **6306801019767**
Option 4 ID : **6306801019769**
Status : **Answered**
Chosen Option : **2**

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Q.18 **A, B, C, D, E, and F, each score different marks out of 100. C scores the highest marks. 72 is the third highest marks and 12 is the lowest marks. F scores less than 72 but not the lowest. B scores more than F but less than A. D doesn't score the lowest. A scores 72.**
Who scores the second highest?

Ans
✗ 1. F
✗ 2. E
✗ 3. B
✓ 4. D

Question ID : **630680262563**
Option 1 ID : **6306801019894**
Option 2 ID : **6306801019893**
Option 3 ID : **6306801019891**
Option 4 ID : **6306801019892**
Status : **Answered**
Chosen Option : **4**

Q.19 **Seven boxes A, B, C, D, E, F and G are kept one over the other, but not necessarily in the same order. There are exactly 3 boxes between A and C. Box E is kept immediately above box F. Box B is kept at the 5th position from the top. There are exactly 2 boxes between B and F. Box D is kept immediately above box A. Which box is kept at the bottommost position?**

Ans
✓ 1. A
✗ 2. F
✗ 3. C
✗ 4. G

Question ID : **630680251523**
Option 1 ID : **630680976095**
Option 2 ID : **630680976096**
Option 3 ID : **630680976098**
Option 4 ID : **630680976097**
Status : **Answered**
Chosen Option : **1**

Q.20 **Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.**
Statements:
All roses are tulips.
Some tulips are orchids.
No orchid is a flower.
Conclusions:
(I) Some roses are orchids.
(II) Some flowers are tulips.

Ans
✓ 1. Neither Conclusion (I) nor Conclusion (II) is true
✗ 2. Only Conclusion (II) is true
✗ 3. Both conclusions (I) and (II) are true
✗ 4. Only Conclusion (I) is true

Question ID : **630680262546**
Option 1 ID : **6306801019826**
Option 2 ID : **6306801019824**
Option 3 ID : **6306801019825**
Option 4 ID : **6306801019823**
Status : **Answered**
Chosen Option : **1**

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Q.21 **A question is given, followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements is sufficient to answer the question.**

Question:
What was the respective ratio between the initial quantities of milk and water?

Statements:
(I) After taking out 35 litres of the mixture, the remaining quantity of milk in the mixture was six times that of water.
(II) When one-fourth of the mixture is taken out, the respective ratio between the resultant quantities of milk and water was 6 : 1.

Ans ✔ 1. Data in either statement I alone or statement II alone is sufficient to answer the question.

✗ 2. Data in statement I alone is sufficient to answer the question, while data in statement II is not sufficient.

✗ 3. Data in statement II alone is sufficient to answer the question, while data in statement I is not sufficient.

✗ 4. Data in statements I and II together is sufficient to answer the question.

Question ID : **630680264047**
Option 1 ID : **6306801025830**
Option 2 ID : **6306801025827**
Option 3 ID : **6306801025828**
Option 4 ID : **6306801025829**
Status : **Answered**
Chosen Option : **3**

Q.22 **In a certain code language,**
'A + B' means 'A is the mother of B';
'A – B' means 'A is the wife of B';
'A × B' means 'A is the father of B' and
'A ÷ B' means 'A is the sister of B'.

Based on the above, how is P related to T if 'P + Q − R × S ÷ T'?

Ans ✔ 1. Mother's mother

✗ 2. Mother's sister

✗ 3. Father's mother

✗ 4. Father's sister

Question ID : **630680251548**
Option 1 ID : **630680976195**
Option 2 ID : **630680976196**
Option 3 ID : **630680976197**
Option 4 ID : **630680976198**
Status : **Answered**
Chosen Option : **1**

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Q.23 **Given below is a statement, followed by two possible reasons numbered I and II. Read the statement carefully and decide which of the two reasons explains the event/observation/information given in the statement.**
Statement:
Even though fuel prices have gone down, airlines have not cut down on their ticket prices.

Reasons:
I)Demand of air travel among consumers is several times more than the availability.
II)The Government has uplifted all restrictions on the pricing of air tickets.

Ans
✗ 1. Neither I nor II is a possible reason
✓ 2. Both I and II are possible reasons
✗ 3. Only II is a possible reason
✗ 4. Only I is a possible reason

Question ID : **630680265543**
Option 1 ID : **6306801031653**
Option 2 ID : **6306801031654**
Option 3 ID : **6306801031652**
Option 4 ID : **6306801031651**
Status : **Answered**
Chosen Option : **4**

Q.24 **What should come in place of the question mark (?) in the given series?**
251, 254, 260, 269, 281, ?

Ans
✗ 1. 301
✓ 2. 296
✗ 3. 304
✗ 4. 294

Question ID : **630680251667**
Option 1 ID : **630680976671**
Option 2 ID : **630680976674**
Option 3 ID : **630680976673**
Option 4 ID : **630680976672**
Status : **Answered**
Chosen Option : **2**

Q.25 **Read the following information carefully and answer the question that follows. You must assume everything in the information to be true.**
On an average, people who regularly volunteer live longer than those who do not. Endorphins, natural opiates of the brain, have been proven to be released when people engage in 'doing good', a category that undoubtedly includes volunteering. There must be a connection because endorphins are known to help people live longer when they are released regularly.
Which of the following conclusions logically follow(s) from the given information?
I) Endorphins are released only when people engage in volunteering activities.
II) There are other ways in which people can engage in 'doing good'.

Ans
✗ 1. Both conclusions I and II follow
✓ 2. Only conclusion II follows
✗ 3. Neither conclusion I nor conclusion II follows
✗ 4. Only conclusion I follows

Question ID : **630680251556**
Option 1 ID : **630680976229**
Option 2 ID : **630680976228**
Option 3 ID : **630680976230**
Option 4 ID : **630680976227**
Status : **Not Answered**
Chosen Option : **--**

Section : **Questions based on combinations of subject as per essential qualification**

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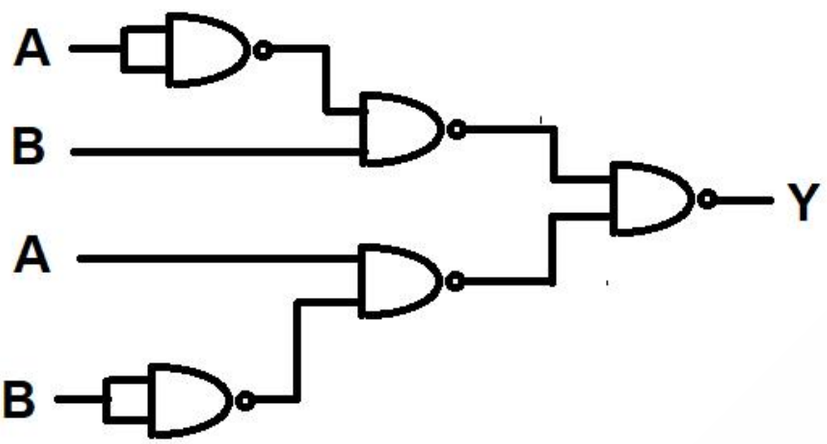
Q.1 The output of circuit shown below is



Ans

✗ 1. $A+B$

✗ 2. $\bar{A}\bar{B}+AB$

✓ 3. $\bar{A}B+A\bar{B}$

✗ 4. $\bar{A}B+\bar{B}$

Question ID : **630680278459**
Option 1 ID : **6306801082193**
Option 2 ID : **6306801082196**
Option 3 ID : **6306801082195**
Option 4 ID : **6306801082194**
Status : **Answered**
Chosen Option : **3**

Q.2 Which of one the below options are the two different types of bus topology ?

Ans

✓ 1. Linear bus topology and distributed bus topology

✗ 2. Linear bus topology and circular bus topology

✗ 3. Distributed bus topology and circular bus topology

✗ 4. Linear bus topology and semi - circular bus topology

Question ID : **630680278514**
Option 1 ID : **6306801082341**
Option 2 ID : **6306801082344**
Option 3 ID : **6306801082343**
Option 4 ID : **6306801082342**
Status : **Answered**
Chosen Option : **2**

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Q.3 **Which statement is FALSE for analog input module for PLCs?**

Ans

✔ 1. The resolution of an analog input is higher, indicates less accuracy.

✘ 2. A Single channel module can measure one analog signal at a time.

✘ 3. Temperature, Pressure are example of analog input signals for PLC.

✘ 4. Analog input module converts analog signal to digital from sensors.

Question ID : **630680278456**
Option 1 ID : **6306801082182**
Option 2 ID : **6306801082184**
Option 3 ID : **6306801082183**
Option 4 ID : **6306801082181**
Status : **Not Answered**
Chosen Option : **--**

Q.4 **Resolution of analog to digital converter is given by_____**

Ans

✘ 1. $1-\frac{Voltage\ Range}{2^{n-1}}$

✘ 2. $\frac{Voltage\ Range}{2^{n}}$

✘ 3. $1+\frac{Voltage\ Range}{2^{n-1}}$

✔ 4. $\frac{Voltage\ Range}{2^{n-1}}$

Question ID : **630680278447**
Option 1 ID : **6306801082148**
Option 2 ID : **6306801082146**
Option 3 ID : **6306801082147**
Option 4 ID : **6306801082145**
Status : **Not Answered**
Chosen Option : **--**

Q.5 A 4-bit ADC converter has a full-scale analog input of 5 Volt. Its resolution is____

Ans

✔ 1. $\frac{1}{3}\ Volt$

✘ 2. $\frac{1}{2}\ Volt$

✘ 3. $\frac{1}{5}\ Volt$

✘ 4. $\frac{1}{4}\ Volt$

Question ID : **630680278449**
Option 1 ID : **6306801082155**
Option 2 ID : **6306801082156**
Option 3 ID : **6306801082153**
Option 4 ID : **6306801082154**
Status : **Not Answered**
Chosen Option : **--**

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Q.6 **Which of the following algorithm uses Darwinian based algorithm to find the best solutions to solve complicated problems with a greater number of variables and possible outcomes/solutions?**

Ans

✔ 1. Genetic algorithm

✘ 2. A* algorithm

✘ 3. Minimax algorithm

✘ 4. Hill climbing

Question ID : **630680278529**
Option 1 ID : **6306801082402**
Option 2 ID : **6306801082404**
Option 3 ID : **6306801082403**
Option 4 ID : **6306801082401**
Status : **Answered**
Chosen Option : **1**

Q.7 **When a large number of analog signal is to be converted to digital form, an analog multiplexer is used. The best suites analog to digital converter for this operation is _____**

Ans

✔ 1. Successive Approximation type.

✘ 2. Forward counter Type

✘ 3. Dual slope type.

✘ 4. Up-down counter type.

Question ID : **630680278448**
Option 1 ID : **6306801082151**
Option 2 ID : **6306801082149**
Option 3 ID : **6306801082150**
Option 4 ID : **6306801082152**
Status : **Answered**
Chosen Option : **1**

Q.8 **Which of the following operation is performed by Domain Name Server (DNS)?**

Ans

✘ 1. Resolve a data link layer address to the corresponding network layer address.

✘ 2. Transferring of a data between a client and a server to send and receive requests and corresponding responses by the networking server.

✔ 3. Mapping a domain name to an IP Address

✘ 4. Connects changing IP address to a fixed media access (MAC) address

Question ID : **630680278524**
Option 1 ID : **6306801082383**
Option 2 ID : **6306801082384**
Option 3 ID : **6306801082381**
Option 4 ID : **6306801082382**
Status : **Answered**
Chosen Option : **3**

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Q.9 **Which statement is true regarding Inductor and capacitor filter respectively used in the rectifier?**

Ans

✗ 1. Inductor is connected in shunt and capacitor is connected in series with load.

✗ 2. Both Inductor and capacitor is connected in Series with load.

✓ 3. Inductor is connected in series and capacitor is connected in shunt with load.

✗ 4. Both Inductor and capacitor is connected in Shunt with load.

Question ID : **630680278443**
Option 1 ID : **6306801082129**
Option 2 ID : **6306801082132**
Option 3 ID : **6306801082130**
Option 4 ID : **6306801082131**
Status : **Answered**
Chosen Option : **1**

Q.10 **In a nodal analysis a circuit with 10 nodes will have _____ unknown voltage and _____equation.**

Ans

✗ 1. 10 unknown voltage and 5 equations.

✗ 2. 5 unknown voltage and 5 equations.

✓ 3. 9 unknown voltage and 9 equations.

✗ 4. 10 unknown voltage and 10 equations.

Question ID : **630680278464**
Option 1 ID : **6306801082216**
Option 2 ID : **6306801082214**
Option 3 ID : **6306801082215**
Option 4 ID : **6306801082213**
Status : **Not Answered**
Chosen Option : **--**

Q.11 **In a digital communication system, let the encoding scheme be "Add 1 at the end of the bit stream if number of 1 bits is odd, else add 0 at the end of bit stream". If 1011 is the bit stream, which of the below is the encoded bit stream ?**

Ans

✗ 1. 10110

✗ 2. 11011

✗ 3. 01011

✓ 4. 10111

Question ID : **630680278504**
Option 1 ID : **6306801082301**
Option 2 ID : **6306801082303**
Option 3 ID : **6306801082304**
Option 4 ID : **6306801082302**
Status : **Not Answered**
Chosen Option : **--**

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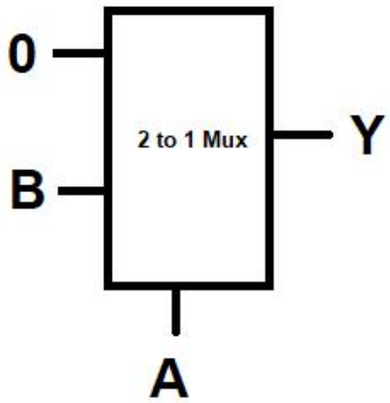
Q.12 The output of the circuit below is ____



Ans
✗ 1. 0
✗ 2. A
✓ 3. AB
✗ 4. 1

Question ID : **630680278457**
Option 1 ID : **6306801082185**
Option 2 ID : **6306801082187**
Option 3 ID : **6306801082188**
Option 4 ID : **6306801082186**
Status : **Not Answered**
Chosen Option : **--**

Q.13 Maximum Power transfer occurs when the_____

Ans
✗ 1. Load voltage and current are two-third of their maximum values.
✗ 2. Load voltage and current are equal.
✓ 3. Load voltage and current are one-half of their maximum values.
✗ 4. Load voltage and current are one-third of their maximum values.

Question ID : **630680278467**
Option 1 ID : **6306801082228**
Option 2 ID : **6306801082225**
Option 3 ID : **6306801082226**
Option 4 ID : **6306801082227**
Status : **Answered**
Chosen Option : **2**

Q.14 The Maximum Power transfer theorem states that maximum power is delivered when_____

Ans
✗ 1. Load resistance is half of source resistance.
✗ 2. Load resistance is thrice of source resistance.
✗ 3. Load resistance is twice of source resistance.
✓ 4. Load resistance is equal of source resistance.

Question ID : **630680278466**
Option 1 ID : **6306801082222**
Option 2 ID : **6306801082224**
Option 3 ID : **6306801082221**
Option 4 ID : **6306801082223**
Status : **Not Answered**
Chosen Option : **--**

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Q.15 **Which probability distribution is most widely used to model channel noise in pulse code modulation?**

Ans
✗ 1. Uniform
✓ 2. Gaussian
✗ 3. Bernoulli
✗ 4. Poisson

Question ID : **630680278508**
Option 1 ID : **6306801082318**
Option 2 ID : **6306801082317**
Option 3 ID : **6306801082320**
Option 4 ID : **6306801082319**
Status : **Answered**
Chosen Option : **3**

Q.16 **Which probability distribution is most widely used to model quantization noise in pulse code modulation ?**

Ans
✗ 1. Gaussian
✗ 2. Bernoulli
✗ 3. Poisson
✓ 4. Uniform

Question ID : **630680278509**
Option 1 ID : **6306801082322**
Option 2 ID : **6306801082324**
Option 3 ID : **6306801082323**
Option 4 ID : **6306801082321**
Status : **Answered**
Chosen Option : **3**

Q.17 **What are the different modes of fiber optic communication?**

Ans
✗ 1. Zero mode and multimode
✓ 2. Single mode and multimode
✗ 3. Zero mode and single mode
✗ 4. Zero mode, single mode and multimode

Question ID : **630680278511**
Option 1 ID : **6306801082331**
Option 2 ID : **6306801082330**
Option 3 ID : **6306801082329**
Option 4 ID : **6306801082332**
Status : **Answered**
Chosen Option : **4**

Q.18 **What is capacity of memory having 16 address lines of row decoder, 8 address lines for column decoder and 8 data lines?**

Ans
✗ 1. 32MB
✗ 2. 8MB
✗ 3. 4MB
✓ 4. 16MB

Question ID : **630680278461**
Option 1 ID : **6306801082204**
Option 2 ID : **6306801082202**
Option 3 ID : **6306801082201**
Option 4 ID : **6306801082203**
Status : **Not Answered**
Chosen Option : **--**

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Q.19 Which of the following action is treated as Anomaly while understanding User activity logs?

Ans

✔ 1. User usually at his desk from 7:30 AM to 5:00 PM with an hour break for lunch between 11:30 AM and 1:30 PM, if we see his account active on systems or networks in the middle of the night

✘ 2. User tend to work primarily with unescalated privileges, where some may make occasional forays into higher-level access – particularly admins or managers who have various valid reasons to exercise such access.

✘ 3. User often work with the same set of tools day-in and day-out, punctuated by periodic use of other applications coincident with business, calendar, or reporting cycles

✘ 4. User usually show up for work around the same time each day and leave to go home around the same time each night

Question ID : **630680278544**
Option 1 ID : **6306801082463**
Option 2 ID : **6306801082464**
Option 3 ID : **6306801082462**
Option 4 ID : **6306801082461**
Status : **Not Answered**
Chosen Option : **--**

Q.20 Which of the following is TRUE for PROM memories?

Ans

✔ 1. It has programable AND gate and fixed OR gate.

✘ 2. It has programable AND gate and programable OR gate.

✘ 3. It has fixed AND gate and programable OR gate.

✘ 4. It has fixed AND gate and fixed OR gate.

Question ID : **630680278462**
Option 1 ID : **6306801082205**
Option 2 ID : **6306801082207**
Option 3 ID : **6306801082208**
Option 4 ID : **6306801082206**
Status : **Not Answered**
Chosen Option : **--**

Q.21 What is the name of the challenge in email forensics, when criminals used to present an email as someone else's and in this case the machine will receive both fake as well as original IP address?

Ans

✘ 1. Phishing

✔ 2. Spoofing

✘ 3. Spam

✘ 4. Port mirroring

Question ID : **630680278543**
Option 1 ID : **6306801082460**
Option 2 ID : **6306801082458**
Option 3 ID : **6306801082459**
Option 4 ID : **6306801082457**
Status : **Answered**
Chosen Option : **1**

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Q.22 What is the range of the header of a TCP segment in bytes?

Ans
✗ 1. 10-20 bytes
✓ 2. 20-60 bytes
✗ 3. 10-40 bytes
✗ 4. 40-80 bytes

Question ID : **630680278525**
Option 1 ID : **6306801082388**
Option 2 ID : **6306801082386**
Option 3 ID : **6306801082385**
Option 4 ID : **6306801082387**
Status : **Not Answered**
Chosen Option : **--**

Q.23 What is the output of the following part of python program?

```
s="india"
l=0
for x in s:
 if(x!="i"):
 l=l+1
 else:
 pass
 print(l)
```

Ans
✗ 1. 1
✗ 2. 5
✗ 3. 6
✓ 4. 3

Question ID : **630680278530**
Option 1 ID : **6306801082408**
Option 2 ID : **6306801082405**
Option 3 ID : **6306801082407**
Option 4 ID : **6306801082406**
Status : **Not Answered**
Chosen Option : **--**

Q.24 If 2 K bits/second is bit rate, what is the minimum PCM bandwidth required for successful transmission?

Ans
✗ 1. 8 KHz
✗ 2. 4 KHz
✓ 3. 1 KHz
✗ 4. 2 KHz

Question ID : **630680278510**
Option 1 ID : **6306801082328**
Option 2 ID : **6306801082327**
Option 3 ID : **6306801082325**
Option 4 ID : **6306801082326**
Status : **Not Answered**
Chosen Option : **--**

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Q.25 **Which of the following element in XSLT is used to apply a template repeatedly on each node?**

Ans

✗ 1. <xsl: value-of>

✓ 2. <xsl: for-each>

✗ 3. <xsl: sort>

✗ 4. <xsl: if>

Question ID : **630680278536**
Option 1 ID : **6306801082430**
Option 2 ID : **6306801082429**
Option 3 ID : **6306801082432**
Option 4 ID : **6306801082431**
Status : **Not Answered**
Chosen Option : **--**

Q.26 **Which are the popular frequency ranges used in India for Wi-Fi communication ?**

Ans

✗ 1. 0.1 MHz and 0.5 MHz

✗ 2. 0.1 GHz and 0.5 GHz

✗ 3. 2.4 MHz and 5 MHz

✓ 4. 2.4 GHz and 5 GHz

Question ID : **630680278512**
Option 1 ID : **6306801082333**
Option 2 ID : **6306801082334**
Option 3 ID : **6306801082335**
Option 4 ID : **6306801082336**
Status : **Answered**
Chosen Option : **4**

Q.27 **In PAM technique which of the below attributes of the pulse is used to vary as the amplitude of message varies**

Ans

✗ 1. Frequency of pulse

✗ 2. Width of pulse

✓ 3. Amplitude of pulse

✗ 4. Phase of pulse

Question ID : **630680278506**
Option 1 ID : **6306801082312**
Option 2 ID : **6306801082309**
Option 3 ID : **6306801082310**
Option 4 ID : **6306801082311**
Status : **Answered**
Chosen Option : **1**

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Q.28 Which statement is true regarding Frequency Modulation(FM)?

Ans

✗ 1. In FM amplitude is constant but Phase varies.

✗ 2. In FM both amplitude and phase vary but frequency remains constant.

✗ 3. In FM amplitude varies and Phase remains constant.

✓ 4. In FM frequency varies and amplitude and phase remain constant.

Question ID : **630680278445**
Option 1 ID : **6306801082139**
Option 2 ID : **6306801082138**
Option 3 ID : **6306801082137**
Option 4 ID : **6306801082140**
Status : **Answered**
Chosen Option : **2**

Q.29 Simplify the Boolean expression.
Y= AB+A(B+C)+B(B+C)

Ans

✗ 1. Y = A+BC

✗ 2. Y = AC

✗ 3. Y = C+AB

✓ 4. Y = B+AC

Question ID : **630680278458**
Option 1 ID : **6306801082189**
Option 2 ID : **6306801082192**
Option 3 ID : **6306801082191**
Option 4 ID : **6306801082190**
Status : **Not Answered**
Chosen Option : **--**

Q.30 Which statement is FALSE regarding Zener diode?

Ans

✗ 1. Zener diode is highly doped diode.

✓ 2. The probability of tunnelling increases as depletion layer is increased.

✗ 3. Zener diode is used in application of voltage regulation.

✗ 4. The breakdown in Zener diode is due to tunnelling.

Question ID : **630680278444**
Option 1 ID : **6306801082135**
Option 2 ID : **6306801082136**
Option 3 ID : **6306801082134**
Option 4 ID : **6306801082133**
Status : **Answered**
Chosen Option : **4**

Q.31 Which of the following protocol is a network layer protocol and used for reporting errors?

Ans

✗ 1. Hypertext Transfer Protocol

✗ 2. File Transfer Protocol

✗ 3. Address Resolution Protocol

✓ 4. Internet Control Message Protocol

Question ID : **630680278521**
Option 1 ID : **6306801082371**
Option 2 ID : **6306801082369**
Option 3 ID : **6306801082370**
Option 4 ID : **6306801082372**
Status : **Answered**
Chosen Option : **4**

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Q.32 Which of the following protocol is used for discovering link layer address or MAC address, associated with a given internet layer address?

Ans
- ✗ 1. Hypertext Transfer Protocol
- ✓ 2. Address Resolution Protocol
- ✗ 3. File Transfer Protocol
- ✗ 4. Resource Reservation Protocol

Question ID : **630680278520**
Option 1 ID : **6306801082367**
Option 2 ID : **6306801082366**
Option 3 ID : **6306801082365**
Option 4 ID : **6306801082368**
Status : **Answered**
Chosen Option : **2**

Q.33 Which of the following language defines the structure, the legal elements and the attributes of an XML document?

Ans
- ✗ 1. XSL
- ✓ 2. DTD
- ✗ 3. CSS
- ✗ 4. XSLT

Question ID : **630680278537**
Option 1 ID : **6306801082433**
Option 2 ID : **6306801082435**
Option 3 ID : **6306801082436**
Option 4 ID : **6306801082434**
Status : **Answered**
Chosen Option : **1**

Q.34 The precision is composed of which of the following two characteristics?

Ans
- ✗ 1. Significant figure and Noise figure.
- ✓ 2. Conformity and Significant figure.
- ✗ 3. Conformity and Noise figure.
- ✗ 4. Error and Noise figure.

Question ID : **630680278470**
Option 1 ID : **6306801082239**
Option 2 ID : **6306801082238**
Option 3 ID : **6306801082237**
Option 4 ID : **6306801082240**
Status : **Answered**
Chosen Option : **4**

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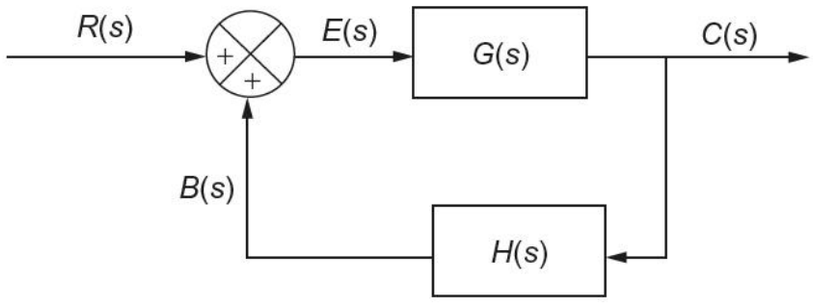
Q.35 The transfer function of the system shown below is_____



Ans

✔ 1. $\frac{G(s)}{1-G(s)H(s)}$

✘ 2. $\frac{H(s)}{1-G(s)H(s)}$

✘ 3. $\frac{G(s)}{1+G(s)H(s)}$

✘ 4. $\frac{H(s)}{1+G(s)H(s)}$

Question ID : **630680278453**
Option 1 ID : **6306801082171**
Option 2 ID : **6306801082172**
Option 3 ID : **6306801082169**
Option 4 ID : **6306801082170**
Status : **Not Answered**
Chosen Option : **--**

Q.36 Which statement is TRUE regarding Norton theorem?

Ans

✘ 1. It consists of current source in series with resistance.

✘ 2. It consists of voltage source in parallel with resistance.

✘ 3. It consists of voltage source in series with resistance.

✔ 4. It consists of current source in parallel with resistance.

Question ID : **630680278468**
Option 1 ID : **6306801082232**
Option 2 ID : **6306801082229**
Option 3 ID : **6306801082230**
Option 4 ID : **6306801082231**
Status : **Not Answered**
Chosen Option : **--**

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Q.37 **If receiver noise floor is 2 dB, signal-to-noise ratio is 3 dB then what is the receiver sensitivity?**

Ans

✗ 1. 1 dB

✓ 2. 5 dB

✗ 3. 2 dB

✗ 4. -1 dB

Question ID : **630680278517**
Option 1 ID : **6306801082354**
Option 2 ID : **6306801082353**
Option 3 ID : **6306801082356**
Option 4 ID : **6306801082355**
Status : **Answered**
Chosen Option : **4**

Q.38 **Which statement is FALSE for PLL used for demodulation of FM?**

Ans

✓ 1. PLL uses feedback system thus increase the bandwidth.

✗ 2. PLL uses feedback to reduce noise power at output of demodulator.

✗ 3. A PLL demodulator uses negative feedback system for demodulation.

✗ 4. PLL uses feedback system thus reducing the bandwidth.

Question ID : **630680278446**
Option 1 ID : **6306801082141**
Option 2 ID : **6306801082142**
Option 3 ID : **6306801082144**
Option 4 ID : **6306801082143**
Status : **Not Answered**
Chosen Option : **--**

Q.39 **Which of the following sorting technique is an example of Divide and Conquer technique?**

Ans

✗ 1. Selection sort

✓ 2. Quick sort

✗ 3. Bubble sort

✗ 4. Insertion sort

Question ID : **630680278527**
Option 1 ID : **6306801082395**
Option 2 ID : **6306801082396**
Option 3 ID : **6306801082394**
Option 4 ID : **6306801082393**
Status : **Answered**
Chosen Option : **1**

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Q.40 **Consider the following statement regarding DIAC.**
Statement (1): DIAC is unidirectional device.
Statement (2): DIAC can be used for triggering TRIAC.
Statement (3): DIAC can be used as an AC switch.
Which statement is/are true.

Ans
✔ 1. Only statement (2) and statement (3) are true.
✘ 2. Only statement (1) is true.
✘ 3. Only statement (1) and statement (3) are true.
✘ 4. Only statement (1) and statement (2) are true.

Question ID : **630680278440**
Option 1 ID : **6306801082120**
Option 2 ID : **6306801082117**
Option 3 ID : **6306801082119**
Option 4 ID : **6306801082118**
Status : **Not Answered**
Chosen Option : **--**

Q.41 **Which statement is TRUE regarding DIAC thyristor.**

Ans
✘ 1. DIAC is two terminal and two-layer device.
✔ 2. DIAC is two terminal and three-layer device.
✘ 3. DIAC is three terminal and two-layer device.
✘ 4. DIAC is three terminal and three-layer device.

Question ID : **630680278439**
Option 1 ID : **6306801082115**
Option 2 ID : **6306801082113**
Option 3 ID : **6306801082114**
Option 4 ID : **6306801082116**
Status : **Not Answered**
Chosen Option : **--**

Q.42 **Which of the following statement is correct related to branch and bound method?**

Ans
✘ 1. Branch and bound is a class of algorithms which is used for finding the best immediate output
✘ 2. Branch and a bound is an algorithmic technique whose goal is to use brute force to find all solutions to a problem
✘ 3. Branch and bound is a class of algorithms for finding solutions to some computational problems, notably constraint satisfaction problems
✔ 4. Branch and bound is a method for solving optimization problems by breaking them down into smaller sub-problems and using a bounding function to eliminate sub-problems that cannot contain the optimal solution

Question ID : **630680278526**
Option 1 ID : **6306801082392**
Option 2 ID : **6306801082389**
Option 3 ID : **6306801082391**
Option 4 ID : **6306801082390**
Status : **Not Answered**
Chosen Option : **--**

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Q.43 Which statement is FALSE regarding Programmable Logic Controller?

Ans

✔ 1. PLCs cannot be reprogrammed for other tasks.

✘ 2. Use of PLC increases reliability.

✘ 3. PLCs are optimized for control tasks and the industrial environment.

✘ 4. PLC is a specialized Programmable device which is used to control machines and processes.

Question ID : **630680278455**
Option 1 ID : **6306801082180**
Option 2 ID : **6306801082178**
Option 3 ID : **6306801082179**
Option 4 ID : **6306801082177**
Status : **Not Answered**
Chosen Option : **--**

Q.44 Which of the following function in python is used to read keyboard input?

Ans

✘ 1. cin

✘ 2. gets

✔ 3. input

✘ 4. scanf

Question ID : **630680278533**
Option 1 ID : **6306801082420**
Option 2 ID : **6306801082419**
Option 3 ID : **6306801082417**
Option 4 ID : **6306801082418**
Status : **Not Answered**
Chosen Option : **--**

Q.45 In a 4-bit DAC, reference voltage is 5 Volts , then analog voltage corresponding to binary data is 1001 is _____

Ans

✘ 1. 5 volts.

✔ 2. 3 volts.

✘ 3. 4 volts.

✘ 4. 2 volts.

Question ID : **630680278450**
Option 1 ID : **6306801082160**
Option 2 ID : **6306801082158**
Option 3 ID : **6306801082159**
Option 4 ID : **6306801082157**
Status : **Not Answered**
Chosen Option : **--**

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Q.46 **Consider the following statement regarding Kelvin Double Bridge.**
Statement (1): It is used for measuring resistance in the range of few ohms to several mega ohm.
Statement (2): It provides high accuracy in the measurement of low resistance.
Statement (3): It is modification of Wheatstone bridge circuit.
Which of the statement is/are FALSE.

Ans
✗ 1. Only statement (2).
✗ 2. Only statement (3).
✓ 3. Only statement (1).
✗ 4. Only statement (1) and statement (3).

Question ID : **630680278473**
Option 1 ID : **6306801082250**
Option 2 ID : **6306801082251**
Option 3 ID : **6306801082249**
Option 4 ID : **6306801082252**
Status : **Answered**
Chosen Option : **3**

Q.47 **Which statement is TRUE regarding SCR Thyristor?**

Ans
✓ 1. Silicon Controlled Rectifier is three terminal, four layered device.
✗ 2. Silicon Controlled Reconstructor is three terminal, three layered device.
✗ 3. Silicon Controlled Reconstructor is three layered device.
✗ 4. Silicon Controlled Rectifier is two terminal, three layered device.

Question ID : **630680278441**
Option 1 ID : **6306801082123**
Option 2 ID : **6306801082124**
Option 3 ID : **6306801082122**
Option 4 ID : **6306801082121**
Status : **Not Answered**
Chosen Option : **--**

Q.48 **Which of the following protocol should be used for those websites which need login credentials for sending the data?**

Ans
✗ 1. HTTP
✓ 2. HTTPS
✗ 3. HTPS
✗ 4. HTTPSE

Question ID : **630680278538**
Option 1 ID : **6306801082437**
Option 2 ID : **6306801082439**
Option 3 ID : **6306801082440**
Option 4 ID : **6306801082438**
Status : **Answered**
Chosen Option : **1**

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Q.49 Bus topology is also known by which one of the alternative names below?

Ans

✗ 1. Circular topology

✗ 2. Semicircular topology

✗ 3. Square topology

✓ 4. Line topology

Question ID : **630680278513**
Option 1 ID : **6306801082337**
Option 2 ID : **6306801082339**
Option 3 ID : **6306801082338**
Option 4 ID : **6306801082340**
Status : **Answered**
Chosen Option : **3**

Q.50 Ignoring quantization noise and considering only channel noise in pulse coded modulation system, if signal-to-noise ratio is 10 dB, noise power is 2 dB, then what is the signal power in dB?

Ans

✗ 1. 10 dB

✗ 2. 2 dB

✓ 3. 12 dB

✗ 4. 8 dB

Question ID : **630680278507**
Option 1 ID : **6306801082315**
Option 2 ID : **6306801082314**
Option 3 ID : **6306801082316**
Option 4 ID : **6306801082313**
Status : **Answered**
Chosen Option : **4**

Q.51 Which statement is FALSE about open loop system?

Ans

✗ 1. An open loop system is not preferred due to inaccuracy and unreliability.

✗ 2. An open loop system is less accurate compared to close loop system.

✗ 3. An open loop system is economical and simple in construction.

✓ 4. An open loop uses unity feedback system.

Question ID : **630680278451**
Option 1 ID : **6306801082164**
Option 2 ID : **6306801082161**
Option 3 ID : **6306801082162**
Option 4 ID : **6306801082163**
Status : **Answered**
Chosen Option : **4**

Q.52 The kelvin double bridge is used for_____

Ans

✗ 1. Measuring high resistance.

✓ 2. Measuring low resistance.

✗ 3. Measuring low inductance.

✗ 4. Measuring high inductance.

Question ID : **630680278472**
Option 1 ID : **6306801082246**
Option 2 ID : **6306801082248**
Option 3 ID : **6306801082247**
Option 4 ID : **6306801082245**
Status : **Answered**
Chosen Option : **2**

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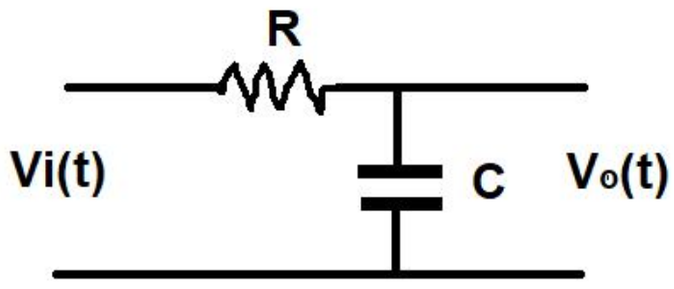
Q.53 For the system shown below calculate the transfer function.



Ans

✔ 1. $\frac{1}{1+sRC}$

✘ 2. $\frac{1}{1-sRC}$

✘ 3. $\frac{RC}{1-sRC}$

✘ 4. $\frac{1}{sRC}$

Question ID : **630680278454**
Option 1 ID : **6306801082175**
Option 2 ID : **6306801082174**
Option 3 ID : **6306801082176**
Option 4 ID : **6306801082173**
Status : **Not Answered**
Chosen Option : **--**

Q.54 **The ability of the device to give identical output when repeat measurement are made with the same input is defined as_____**

Ans

✔ 1. Precision

✘ 2. Accuracy

✘ 3. Calibration

✘ 4. Resolution

Question ID : **630680278469**
Option 1 ID : **6306801082233**
Option 2 ID : **6306801082234**
Option 3 ID : **6306801082235**
Option 4 ID : **6306801082236**
Status : **Answered**
Chosen Option : **2**

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Q.55 **In a digital communication system's block diagram, which of the below components can be found at the receiver?**

Ans
- ✔ 1. Demodulator
- ✘ 2. Channel encoder
- ✘ 3. Modulator
- ✘ 4. Source encoder

Question ID : **630680278503**
Option 1 ID : **6306801082299**
Option 2 ID : **6306801082300**
Option 3 ID : **6306801082297**
Option 4 ID : **6306801082298**
Status : **Answered**
Chosen Option : **3**

Q.56 **Which of the following is a default connector for Shielded twisted pair?**

Ans
- ✔ 1. RJ-45
- ✘ 2. RJ-232
- ✘ 3. RS-232
- ✘ 4. RS-45

Question ID : **630680278523**
Option 1 ID : **6306801082380**
Option 2 ID : **6306801082379**
Option 3 ID : **6306801082377**
Option 4 ID : **6306801082378**
Status : **Not Answered**
Chosen Option : **--**

Q.57 **Which of the following method is specifically designed to allow a network analyst to monitor traffic?**

Ans
- ✘ 1. Forward chaining
- ✘ 2. Firewall
- ✔ 3. Port mirroring
- ✘ 4. Switch monitoring

Question ID : **630680278540**
Option 1 ID : **6306801082445**
Option 2 ID : **6306801082448**
Option 3 ID : **6306801082447**
Option 4 ID : **6306801082446**
Status : **Answered**
Chosen Option : **2**

Q.58 **Which of the following language is used for specifying style sheets for XML documents?**

Ans
- ✘ 1. DTD
- ✔ 2. XSL
- ✘ 3. XTL
- ✘ 4. CSS

Question ID : **630680278535**
Option 1 ID : **6306801082428**
Option 2 ID : **6306801082426**
Option 3 ID : **6306801082427**
Option 4 ID : **6306801082425**
Status : **Answered**
Chosen Option : **4**

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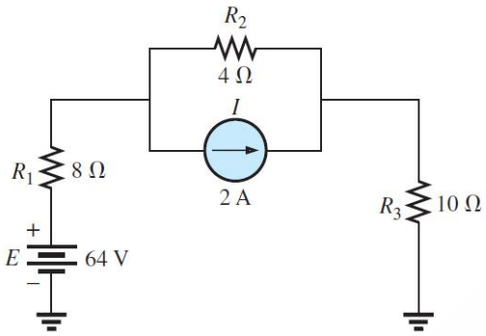
Q.59 **Which of the following programming language can be used to process text data for the requirements in various textual data analysis?**

Ans
✗ 1. ALGOL
✗ 2. COBOL
✗ 3. C
✓ 4. Python

Question ID : **630680278534**
Option 1 ID : **6306801082422**
Option 2 ID : **6306801082421**
Option 3 ID : **6306801082423**
Option 4 ID : **6306801082424**
Status : **Not Answered**
Chosen Option : **--**

Q.60 For the circuit shown, Find the number of nodes and number of independent equations used for analysis of circuit using nodal analysis.



Ans
✗ 1. Three Nodes and Three independent equations.
✓ 2. Three Nodes and Two independent equations.
✗ 3. Two Nodes and Two independent equations.
✗ 4. Two Nodes and Three independent equations.

Question ID : **630680278465**
Option 1 ID : **6306801082217**
Option 2 ID : **6306801082218**
Option 3 ID : **6306801082220**
Option 4 ID : **6306801082219**
Status : **Not Answered**
Chosen Option : **--**

Q.61 **If 1011 is transmitted with alternate-mark-inversion bipolar encoding and the corresponding transmitted voltage levels are {+1,0,-1,+1}. If the received voltage levels due to noise are {+1,0,-1,-1} then how many bits are detected to be in error ?**

Ans
✓ 1. 1
✗ 2. 3
✗ 3. 4
✗ 4. 2

Question ID : **630680278505**
Option 1 ID : **6306801082305**
Option 2 ID : **6306801082307**
Option 3 ID : **6306801082308**
Option 4 ID : **6306801082306**
Status : **Not Answered**
Chosen Option : **--**

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Q.62 The number of significant figures for 5.1250 and 0.06900 respectively are____

Ans

✗ 1. 5 and 5

✗ 2. 4 and 5

✓ 3. 5 and 4

✗ 4. 4 and 6

Question ID : **630680278471**
Option 1 ID : **6306801082241**
Option 2 ID : **6306801082242**
Option 3 ID : **6306801082243**
Option 4 ID : **6306801082244**
Status : **Not Answered**
Chosen Option : **--**

Q.63 What is the output of the following part of python program?

```
c = 0
while (c <= 2):
c = c+1
print("Hi")
```

Ans

✓ 1. Hi
Hi
Hi

✗ 2. Hi

✗ 3. Hi Hi

✗ 4. Hi
Hi

Question ID : **630680278531**
Option 1 ID : **6306801082411**
Option 2 ID : **6306801082409**
Option 3 ID : **6306801082412**
Option 4 ID : **6306801082410**
Status : **Not Answered**
Chosen Option : **--**

Q.64 Which of the following statement is TRUE related to Alpha Beta pruning algorithm?

Ans

✗ 1. In Alpha Beta algorithm we explore all the paths to find the solution

✓ 2. In Alpha Beta algorithm, Alpha has maximum value and Beta has minimum value

✗ 3. minimax is a better implementation of Alpha Beta algorithm

✗ 4. In Alpha Beta algorithm Alpha has minimum value and Beta has maximum value

Question ID : **630680278528**
Option 1 ID : **6306801082399**
Option 2 ID : **6306801082397**
Option 3 ID : **6306801082400**
Option 4 ID : **6306801082398**
Status : **Not Answered**
Chosen Option : **--**

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Q.65 Which statement is FALSE regarding DRAM memory?

Ans

✔ 1. Dynamic memory cells store a data bit in a latch.

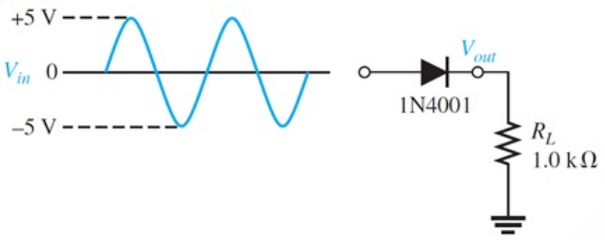
✘ 2. DRAMs can be used for storing large data.

✘ 3. DRAMS consist of MOSFET and Capacitor.

✘ 4. In DRAM MOSFET act as a switch.

Question ID : **630680278460**
Option 1 ID : **6306801082197**
Option 2 ID : **6306801082198**
Option 3 ID : **6306801082199**
Option 4 ID : **6306801082200**
Status : **Not Answered**
Chosen Option : **--**

Q.66 Identify the practical silicon diode circuit and calculate the peak output voltage (V_{out}).



Ans

✘ 1. It is Full wave rectifier with peak voltage 4.3 Volts.

✘ 2. It is Full wave rectifier with peak voltage 5m Volts.

✔ 3. It is Half wave rectifier with peak voltage 4.3 Volts.

✘ 4. It is Half wave rectifier with peak voltage 5m Volts.

Question ID : **630680278442**
Option 1 ID : **6306801082126**
Option 2 ID : **6306801082125**
Option 3 ID : **6306801082128**
Option 4 ID : **6306801082127**
Status : **Not Answered**
Chosen Option : **--**

Q.67 Which of the following is the last part of ICMP message format?

Ans

✘ 1. Extended Header

✘ 2. Checksum

✔ 3. Data or Payload of variable length

✘ 4. Code

Question ID : **630680278522**
Option 1 ID : **6306801082376**
Option 2 ID : **6306801082374**
Option 3 ID : **6306801082375**
Option 4 ID : **6306801082373**
Status : **Not Answered**
Chosen Option : **--**

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Q.68 **If signal-to-interference ratio is 5 dB, signal power is 8 dB, then what is the interference power in dB?**

Ans

✗ 1. 13 dB

✓ 2. 3 dB

✗ 3. 5 dB

✗ 4. 8 dB

Question ID : **630680278515**
Option 1 ID : **6306801082348**
Option 2 ID : **6306801082346**
Option 3 ID : **6306801082347**
Option 4 ID : **6306801082345**
Status : **Not Answered**
Chosen Option : **--**

Q.69 **Which of the following statement is INCORRECT related to mysql_list_tables() function ?**

Ans

✗ 1. We can display a list of tables present in a database by using mysql_list_tables() function

✗ 2. Connection has to be established before call of mysql_list_tables() function

✓ 3. Connection need not to be established before call of mysql_list_tables() function

✗ 4. The result pointer returned by this function is used by mysql_tablename() function to display the name of the tables.

Question ID : **630680278539**
Option 1 ID : **6306801082441**
Option 2 ID : **6306801082442**
Option 3 ID : **6306801082444**
Option 4 ID : **6306801082443**
Status : **Not Answered**
Chosen Option : **--**

Q.70 **Which of the following network traffic tool can capture not only passwords, but any type of data passing through a network, like usernames, email addresses, personal information, pictures, videos, or anything else?**

Ans

✗ 1. TCP Dump

✗ 2. SMON

✗ 3. Firewall

✓ 4. Wireshark

Question ID : **630680278541**
Option 1 ID : **6306801082449**
Option 2 ID : **6306801082452**
Option 3 ID : **6306801082451**
Option 4 ID : **6306801082450**
Status : **Not Answered**
Chosen Option : **--**

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Q.71 **If SNRi is the input SNR of a system in dB, SNRo is the output SNR of a system in dB, then which of the below defines the noise figure (NF) in dB?**

Ans

✗ 1. NF = SNRo × SNRi

✓ 2. NF = SNRi - SNRo

✗ 3. NF = SNRi + SNRo

✗ 4. NF = SNRo - SNRi

Question ID : **630680278516**
Option 1 ID : **6306801082351**
Option 2 ID : **6306801082352**
Option 3 ID : **6306801082349**
Option 4 ID : **6306801082350**
Status : **Not Answered**
Chosen Option : **--**

Q.72 **Which of the following programming language most of "Wireshark" is implemented in?**

Ans

✗ 1. ALGOL

✓ 2. C

✗ 3. Python

✗ 4. COBOL

Question ID : **630680278542**
Option 1 ID : **6306801082456**
Option 2 ID : **6306801082453**
Option 3 ID : **6306801082454**
Option 4 ID : **6306801082455**
Status : **Not Answered**
Chosen Option : **--**

Q.73 **Transfer function of closed loop system with negative feedback is defined as___**

Ans

✗ 1. $\frac{\text{Forward path gain}}{1 - \text{forward path gain}}$

✓ 2. $\frac{\text{Forward path gain}}{1 + \text{forward path gain} \times \text{feedback path gain}}$

✗ 3. $\frac{\text{Forward path gain}}{1 - \text{forward path gain} * \text{feedback path gain}}$

✗ 4. $\frac{\text{Forward path gain}}{1 + \text{forward path gain}}$

Question ID : **630680278452**
Option 1 ID : **6306801082166**
Option 2 ID : **6306801082167**
Option 3 ID : **6306801082168**
Option 4 ID : **6306801082165**
Status : **Not Answered**
Chosen Option : **--**

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Q.74 **A circuit has five branches with four nodes including reference node , then the number of linearly independent mesh equation would be_____**

Ans

✗ 1. 5

✗ 2. 4

✓ 3. 2

✗ 4. 3

Question ID : **630680278463**
Option 1 ID : **6306801082212**
Option 2 ID : **6306801082211**
Option 3 ID : **6306801082209**
Option 4 ID : **6306801082210**
Status : **Not Answered**
Chosen Option : **--**

Q.75 **What is the output of the following part of python program?**
x = ("apple", "banana", "cherry")
print(x)

Ans

✓ 1. ('apple', 'banana', 'cherry')

✗ 2. Cherry

✗ 3. Apple

✗ 4. Error

Question ID : **630680278532**
Option 1 ID : **6306801082413**
Option 2 ID : **6306801082416**
Option 3 ID : **6306801082414**
Option 4 ID : **6306801082415**
Status : **Not Answered**
Chosen Option : **--**

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