

NIC Scientific Officer Engineer SB S2
(Candidate Response Sheet)

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Name of the Candidate	SYEED MOHD AMEEN
Examination Name	NIC Scientific Officer Engineer SB S2
Exam Date & Time	13-12-2023 03:00:00

Section : Generic, Q01

Question ID:- 1

Find the wrong number in the following series. 2, 4, 9, 28, 113, 566, 3397

Options:-

- 4 ,
Option ID :- 1,
- 2 ,
Option ID :- 2,
- 9 ,
Option ID :- 3,
- 566
Option ID :- 4,

Answer Given by Candidate:- 4 , **Option ID :- 1**

Correct Answer :- 2 **Option ID :- 2**

Section : Generic, Q02

Question ID:- 2

Read the following information to answer the given question.

A, B, C, D, E and F are sitting in a row.
E and F are in the center, A and B are at the ends.
C is sitting on the left of A.

Who is sitting three places on the right of D?

Options:-

■ ,
Option ID :- 5,

■ ,
Option ID :- 6,

■ ,
Option ID :- 7,

■ ,
Option ID :- 8,

Answer Given by Candidate:- C , Option ID : -6

Correct Answer :- C Option ID :- 6

Section : Generic, Q03

Question ID:- 3

Complete the given series.

5, 15, 45, 225, ?

Options:-

■ 1024
■ ,
Option ID :- 9,

■ 1125
■ ,
Option ID :- 10,

■ 1500
■ ,
Option ID :- 11,

■ 2250
■ ,
Option ID :- 12,

Answer Given by Candidate:- 1125 , Option ID : -10

Correct Answer :- 1125 Option ID :- 10

Section : Generic, Q04

Question ID:- 4

Pointing to a photograph the man said, "The lady in the photograph is my nephew's maternal grandmother."

How is the lady in the photograph related to the man's sister who has no other sister?

Options:-

- Cousin ,
Option ID :- 13,
- Mother ,
Option ID :- 14,
- Sister-in-law ,
Option ID :- 15,
- Mother-in-law ,
Option ID :- 16,

Answer Given by Candidate:- Cousin , **Option ID : -13**

Correct Answer :- Mother **Option ID :- 14**

Section : Generic, Q05

Question ID:- 5

In a certain coding system 'BROWN' is written as 'ZPMUL'. What is the code for 'VIOLET'?

Options:-

- TGMJCQ
Option ID :- 17,
- TGMJCR
Option ID :- 18,
- SGMJCQ
Option ID :- 19,
- TGWCQ
Option ID :- 20,

Answer Given by Candidate:- TGMJCR , **Option ID : -18**

Correct Answer :- TGMJCR **Option ID :- 18**

Section : Generic, Q06

Question ID:- 6

The question given below has a set of three statements. Each set of statements is further divided into three segments. Choose the alternative where the third segment in the statement can be logically deduced using both the preceding two, but not just from one of them.

Statement I: All bats are lions.
Statement II: No cow is lion.
Statement III: Some camels are cows.

Conclusion I: Some lions are camels.
Conclusion II: No camel is bat.
Conclusion III: Some bats are cows.

Options:-

only I follows

,
Option ID :- 21,

only II follows

,
Option ID :- 22,

only III follows

,
Option ID :- 23,

None of these

,
Option ID :- 24,

Answer Given by Candidate:- only I follows , **Option ID : -21**

Correct Answer :- None of these **Option ID :- 24**

Section : Generic, Q07

Question ID:- 7

Read the following information carefully and answer the questions below.

1. P x Q means P is the father of Q
2. P - Q means P is the sister of Q
3. P + Q means P is the mother of Q
4. P = Q means P is the brother of Q

Which of the following represents 'R is niece of M'?

Options:-

M - J + R - N

,
Option ID :- 25,

R - M x T - W

,
Option ID :- 26,

M - K x T - R

,
Option ID :- 27,

■ None of these

Option ID :- 28,

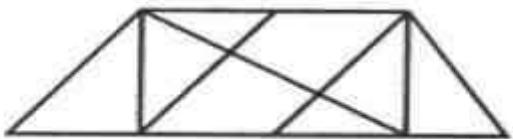
Answer Given by Candidate:- M-J+R-N , Option ID : -25

Correct Answer :- M-J+R-N Option ID :- 25

Section : Generic, Q08

Question ID:- 8

Find the number of triangles in the given figure.



Options:-

■ 8 ,

Option ID :- 29,

■ 10 ,

Option ID :- 30,

■ 12 ,

Option ID :- 31,

■ 14 ,

Option ID :- 32,

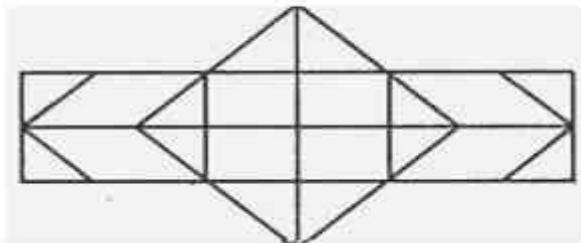
Answer Given by Candidate:- 14 , Option ID : -32

Correct Answer :- 14 Option ID :- 32

Section : Generic, Q09

Question ID:- 9

What will be the number of hexagonal in the following figure?



Options:-

■ 4 ,
Option ID :- 33,

■ 6 ,
Option ID :- 34,

■ 2 ,
Option ID :- 35,

■ 5 ,
Option ID :- 36,

Answer Given by Candidate:- 4 , Option ID : -33

Correct Answer :- 5 Option ID :- 36

Section : Generic, Q10

Question ID:- 10

What is the minimum number of colours required to fill the spaces in the given diagram without any two adjacent spaces having the same colour?



Options:-

■ 6 ,
Option ID :- 37,

■ 5 ,
Option ID :- 38,

■ 4 ,
Option ID :- 39,

■ 3 ,
Option ID :- 40,

Answer Given by Candidate:- 4 , Option ID : -39

Correct Answer :- 3 Option ID :- 40

Section : Generic, Q11

Question ID:- 11

If JAPAN is coded as KCSES, then the code for CASTLE will be.

Options:-

DIJOBK

■ ,
Option ID :- 41,

DJKRDG

■ ,
Option ID :- 42,

DKMSGH

■ ,
Option ID :- 43,

DCVXQK

■ ,
Option ID :- 44,

Answer Given by Candidate:- DCVXQK , Option ID : -44

Correct Answer :- DCVXQK Option ID :- 44

Section : Generic, Q12

Question ID:- 12

Study the following information carefully and answer the questions given below:

Seven persons – Kajal, Bhagat, Mandeep, Kiran, Rinku, Pranav, and Shreya have different height and weight such that the tallest one is not the heaviest one.

Kiran is taller than Kajal but not heavier than Shreya. Bhagat is heavier than Rinku but not as much tall as Mandeep. Pranav is heavier than Bhagat and Rinku but shorter than Mandeep and Bhagat. Kiran is not taller than Pranav. Shreya is not taller than Kajal and also not heavier than Rinku. Kajal is not lighter than Mandeep who is heavier than Bhagat. Mandeep is shorter than only one person. Pranav is not the second heaviest and is lighter than Mandeep.

Who among the following is the second lightest?

Options:-

Pranav

■ ,
Option ID :- 45,

Kajal

■ ,
Option ID :- 46,

Shreya

■ ,
Option ID :- 47,

Rinku

■ ,
Option ID :- 48,

Answer Given by Candidate:- Pranav , Option ID : -45

Correct Answer :- Shreya Option ID :- 47

Section : Generic, Q13

Question ID:- 13

Study the following information carefully and answer the questions given below:

Seven persons – Kajal, Bhagat, Mandeep, Kiran, Rinku, Pranav, and Shreya have different height and weight such that the tallest one is not the heaviest one.

Kiran is taller than Kajal but not heavier than Shreya. Bhagat is heavier than Rinku but not as much tall as Mandeep. Pranav is heavier than Bhagat and Rinku but shorter than Mandeep and Bhagat. Kiran is not taller than Pranav. Shreya is not taller than Kajal and also not heavier than Rinku. Kajal is not lighter than Mandeep who is heavier than Bhagat. Mandeep is shorter than only one person. Pranav is not the second heaviest and is lighter than Mandeep.

How many person(s) are heavier than the one who is second shortest?

Options:-

one

Two
Option ID :- 49,

Three

Four
Option ID :- 50,

None

None
Option ID :- 51,
None
Option ID :- 52,

Answer Given by Candidate:- one , Option ID : -49

Correct Answer :- None Option ID :- 52

Section : Generic, Q14

Question ID:- 14

Study the following information carefully and answer the questions given below:

Seven persons – Kajal, Bhagat, Mandeep, Kiran, Rinku, Pranav, and Shreya have different height and weight such that the tallest one is not the heaviest one.

Kiran is taller than Kajal but not heavier than Shreya. Bhagat is heavier than Rinku but not as much tall as Mandeep. Pranav is heavier than Bhagat and Rinku but shorter than Mandeep and Bhagat. Kiran is not taller than Pranav. Shreya is not taller than Kajal and also not heavier than Rinku. Kajal is not lighter than Mandeep who is heavier than Bhagat. Mandeep is shorter than only one person. Pranav is not the second heaviest and is lighter than Mandeep.

Who among the following is the heaviest?

Options:-

Shreya

■ ,
Option ID :- 53,

Mandeep

■ ,
Option ID :- 54,

Kajal

■ ,
Option ID :- 55,

Pranav

■ ,
Option ID :- 56,

Answer Given by Candidate:- Shreya , Option ID : -53

Correct Answer :- Kajal Option ID :- 55

Section : Generic, Q15

Question ID:- 15

Study the following information carefully and answer the questions given below:

Seven persons – Kajal, Bhagat, Mandeep, Kiran, Rinku, Pranav, and Shreya have different height and weight such that the tallest one is not the heaviest one.

Kiran is taller than Kajal but not heavier than Shreya. Bhagat is heavier than Rinku but not as much tall as Mandeep. Pranav is heavier than Bhagat and Rinku but shorter than Mandeep and Bhagat. Kiran is not taller than Pranav. Shreya is not taller than Kajal and also not heavier than Rinku. Kajal is not lighter than Mandeep who is heavier than Bhagat. Mandeep is shorter than only one person. Pranav is not the second heaviest and is lighter than Mandeep.

Which of the following statements is/are true?

Options:-

Kiran is heaviest

Option ID :- 57,

Shreya is shortest

Option ID :- 58,

Bhagat is third heaviest

Option ID :- 59,

All are true

Option ID :- 60,

Kiran is heaviest

Answer Given by Candidate:-

, **Option ID : -57**

Shreya is shortest

Correct Answer :-

Option ID :- 58

Section : Generic, Q16

Question ID:- 16

Study the following information carefully and answer the questions given below:

Seven persons – Kajal, Bhagat, Mandeep, Kiran, Rinku, Pranav, and Shreya have different height and weight such that the tallest one is not the heaviest one.

Kiran is taller than Kajal but not heavier than Shreya. Bhagat is heavier than Rinku but not as much tall as Mandeep. Pranav is heavier than Bhagat and Rinku but shorter than Mandeep and Bhagat. Kiran is not taller than Pranav. Shreya is not taller than Kajal and also not heavier than Rinku. Kajal is not lighter than Mandeep who is heavier than Bhagat. Mandeep is shorter than only one person. Pranav is not the second heaviest and is lighter than Mandeep.

Which of the following persons is the tallest?

Options:-

Rinku

■ ,
Option ID :- 61,

Kiran

■ ,
Option ID :- 62,

Kajal

■ ,
Option ID :- 63,

Shreya

■ ,
Option ID :- 64,

Answer Given by Candidate:- Rinku , Option ID : -61

Correct Answer :- Rinku Option ID :- 61

Section : Generic, Q17

Question ID:- 17

Direction: Study the following alphabetical sequence and answer the question given below it.

A B C D E F E I B C A F E C B B A C A O B N U V W

How many C's are there in the alphabetical series which are immediately preceded by a vowel and immediately followed by a consonant?

Options:-

1

■ ,
Option ID :- 65,

2
■ ,
Option ID :- 66,
3

■ ,
Option ID :- 67,
0
■ ,
Option ID :- 68,

Answer Given by Candidate:- 1 , Option ID : -65

Correct Answer :- 1 Option ID :- 65

Section : Generic, Q18

Question ID:- 18

How many 3-digit numbers are there, for which the product of their digits is more than 2 but less than 7?

Options:-

20
■ ,
Option ID :- 69,

21
■ ,
Option ID :- 70,

13
■ ,
Option ID :- 71,

22
■ ,
Option ID :- 72,

Answer Given by Candidate:- 20 , Option ID : -69

Correct Answer :- 21 Option ID :- 70

Section : Generic, Q19

Question ID:- 19

Three company of soldiers containing 120, 192, and 144 soldiers are to be broken down into smaller groups such that each group contains soldiers from one company only and all the groups have equal number of soldiers. What is the least number of total groups formed?

Options:-

12

■ ,
Option ID :- 73,

21

■ ,
Option ID :- 74,

19

■ ,
Option ID :- 75,

17

■ ,
Option ID :- 76,

Answer Given by Candidate:- 12 , Option ID : -73

Correct Answer :- 19 Option ID :- 75

Section : Generic, Q20

Question ID:- 20

The number of ways in which 4 squares can be chosen at random on a chess board such that they lie on a diagonal line?

Options:-

364

■ ,
Option ID :- 77,

182

■ ,
Option ID :- 78,

140

■ ,
Option ID :- 79,

256

■ ,
Option ID :- 80,

Answer Given by Candidate:- 364 , Option ID : -77

Section : Generic, Q21**Question ID:- 21**

How many five letter words (with or without meaning) can be formed such that the letters appearing in the odd positions are taken from the unrepeated letters of the word MATHEMATICS whereas the letters which occupy even places are taken from amongst the repeated letters of the same?

Options:-

3600

Option ID :- 81,

540

Option ID :- 82,

150

Option ID :- 83,

None of these

Option ID :- 84,**Answer Given by Candidate:-**

3600

, Option ID : -81**Correct Answer :-**

540

Option ID :- 82**Section : Generic, Q22****Question ID:- 22**

The radius of the incircle of a triangle is 4 cm and the segments into which one side is divided by the point of contact are 6 cm and 8 cm. Determine the other two sides of the triangle.

Options:-

12 cm

Option ID :- 85,

15 cm

Option ID :- 86,

14 cm

■ ,
Option ID :- 87,

13 cm

■ ,
Option ID :- 88,

Answer Given by Candidate:- 12 cm , **Option ID : -85**

13 cm

Correct Answer :- **Option ID :- 88**

Section : Generic, Q23

Question ID:- 23

A friend is spotted by Laloo at a distance of 200 m. When Laloo starts to approach him, the friend also starts moving in the same direction as Laloo. If the speed of his friend is 15 kmph, and that of Laloo is 20 kmph, then how far will the friend have to walk before Laloo meets him?

Options:-

600 m

■ ,
Option ID :- 89,

0.6 m

■ ,
Option ID :- 90,

6 km

■ ,
Option ID :- 91,

900 m

■ ,
Option ID :- 92,

600 m

Answer Given by Candidate:- 600 m , **Option ID : -89**

600 m

Correct Answer :- **Option ID :- 89**

Section : Generic, Q24

Question ID:- 24

A dealer offers three successive discounts of 50%, 20% and 10% on an article. What is the single effective discount rate?

Options:-

60%

- ,
Option ID :- 93,

62%

- ,
Option ID :- 94,

64%

- ,
Option ID :- 95,

63%

- ,
Option ID :- 96,

Answer Given by Candidate:- 60% , **Option ID : -93**

64%

Correct Answer :- 64% **Option ID :- 95**

Section : Generic, Q25

Question ID:- 25

The cost of diamond varies directly as the square of its weight. Once, this diamond broke into four pieces with weights in the ratio 1 : 2 : 3 : 4. When the pieces were sold, the merchant got Rs. 70,000 less. Find the original price of the diamond.

Options:-

Rs. 1.4 Lakh

- ,
Option ID :- 97,

Rs. 1 lakh

- ,
Option ID :- 98,

Rs. 2.5 Lakh

- ,
Option ID :- 99,

Rs. 2 Lakh

- ,
Option ID :- 100,

Rs. 1.4 Lakh

Answer Given by Candidate:- 60% , **Option ID : -97**

Rs. 1 lakh

Correct Answer :- 64% **Option ID :- 98**

Section : Generic, Q26

Question ID:- 26

Two full tanks, one shaped like a cylinder and the other like a cone, contain jet fuel. The cylindrical tank holds 500 litres more than the conical tank. After 200 litres of fuel has been pumped out from each tank, the cylindrical tank contains twice the amount of fuel in the conical tank. How many litres of fuel did the cylindrical tank have when it was full?

Options:-

- 700
■ ,
Option ID :- 101,
- 1000
■ ,
Option ID :- 102,
- 1200
■ ,
Option ID :- 103,
- 1100
■ ,
Option ID :- 104,

Answer Given by Candidate:- 700 , **Option ID :- 101**

Correct Answer :- 1200 **Option ID :- 103**

Section : Generic, Q27

Question ID:- 27

Read the following information carefully and answer the questions given beside.

A@B means A is not greater than B.

A!B means A is greater than B.

A*B means A is not less than B.

A%B means A is less than B.

A#B means A is neither greater nor less than B.

Statements: E@F, D%D, T%F

Conclusion I: D%D

Conclusion II: T%E

Options:-

Only conclusion I follows

Option ID :- 105,

Only conclusion II follows

Option ID :- 106,

Both conclusion I and conclusion II follows

Option ID :- 107,

Neither conclusion I nor conclusion II follows

Option ID :- 108,

Both conclusion I and conclusion II follows

Answer Given by Candidate:-
ID : -107

, **Option**

Correct Answer :-

Both conclusion I and conclusion II follows

Option ID :- 107

Section : Generic, Q28

Question ID:- 28

Read the following information carefully and answer the questions given beside.

A@B means A is not greater than B.

A!B means A is greater than B.

A*B means A is not less than B.

A%B means A is less than B.

A#B means A is neither greater nor less than B.

Statements: Z!U , P*W , W@U

Conclusion I: Z!W

Conclusion II: P%U

Options:-

Only conclusion I follows

Option ID :- 109,

Only conclusion II follows

Option ID :- 110,

Both conclusion I and conclusion II follows

Option ID :- 111,

Neither conclusion I nor conclusion II follows

■ **Option ID :- 112,**

Answer Given by Candidate:-
ID : -111

Both conclusion I and conclusion II follows

, **Option**

Correct Answer :-
Only conclusion I follows.

Option ID :- 109

Section : Generic, Q29

Question ID:- 29

If 5 men and 3 boys can reap 23 hectares in 4 days and if 3 men and 2 boys can reap 7 hectares in 2 days, then how many boys must assist 7 men in order that they may reap 45 hectares in 6 days?

Options:-

1

■ **Option ID :- 113,**

2

■ **Option ID :- 114,**

3

■ **Option ID :- 115,**

4

■ **Option ID :- 116,**

Answer Given by Candidate:- 2 , **Option ID : -114**

Correct Answer :- 2 **Option ID :- 114**

Section : Generic, Q30

Question ID:- 30

A bag contains 2 white marbles, 3 black marbles and 4 red marbles. Find in how many ways, 3 marbles can be drawn, so that at least one black marble is included in each draw?

Options:-

64

■ **Option ID :- 117,**

52

- ,
Option ID :- 118,

58

- ,
Option ID :- 119,

36

- ,
Option ID :- 120,

Answer Given by Candidate:- 64 , Option ID : -117

Correct Answer :- 64 Option ID :- 117

Section : Generic, Q31

Question ID:- 31

Select the letter-cluster that can replace the question mark (?) in the following series:

PROGRESS, QTOGRESS, QTRKRESS, ? , QTRWKZA

Options:-

QTRWKTY

- ,
Option ID :- 121,

PRRKWKSS

- ,
Option ID :- 122,

QTRWKSS

- ,
Option ID :- 123,

QTRKVMSS

- ,
Option ID :- 124,

QTRWKTY

Answer Given by Candidate:- , Option ID : -121

QTRWKSS

Correct Answer :- Option ID :- 123

Section : Generic, Q32

Question ID:- 32

A basket contains 4 roses, 3 lilies and 2 sunflowers. A man picks 2 flowers at random from the basket. What is the probability that both are roses or both are lilies?

Options:-

1/5

- ,
Option ID :- 125,

1/4

- ,
Option ID :- 126,

1/3

- ,
Option ID :- 127,

1/2

- ,
Option ID :- 128,

Answer Given by Candidate:-

1/5

, Option ID : -125

Correct Answer :- 1/4 Option ID :- 126

Section : Generic, Q33

Question ID:- 33

In 6 hours the distance covered by Chulbul is 6 km more than the distance covered by Bulbul in 7 hours. In 7 hours, the distance covered by Chulbul is 3 km less than the distance covered by Bulbul in 9 hours. In a race of 180 km, by what distance will Chulbul beat Bulbul?

Options:-

48 Km

- ,
Option ID :- 129,

24 Km

- ,
Option ID :- 130,

36 Km

- ,
Option ID :- 131,

30 Km

- ,
Option ID :- 132,

Answer Given by Candidate:- 48 Km , **Option ID : -129**

Correct Answer :- 36 Km **Option ID :- 131**

Section : Generic, Q34

Question ID:- 34

Three friends A, B, C started working together on a piece of work. Once half of the work was completed B left the work and then A and C complete the remaining work together in 10 days. If B had worked with A and C together only for 6 days, then in how many days B alone can complete the piece of work?

Options:-

25 days

■ ' **Option ID :- 133,**

40 days

■ ' **Option ID :- 134,**

30 days

■ ' **Option ID :- 135,**

20 days

■ ' **Option ID :- 136,**

25 days

Answer Given by Candidate:- , **Option ID : -133**

30 days

Correct Answer :- **Option ID :- 135**

Section : Generic, Q35

Question ID:- 35

If it is possible to make a meaningful word from 4th, 6th, 7th and 8th letter from the word – **ONSTREAM**, then which will be the third letter of the meaningful word? If no such word will be found, mark the answer as 'Y'. If more than one word can be found, mark the answer as 'X'.

Options:-

Y
■ ,
Option ID :- 137,

X

■ ,
Option ID :- 138,

M

■ ,
Option ID :- 139,

E

■ ,
Option ID :- 140,

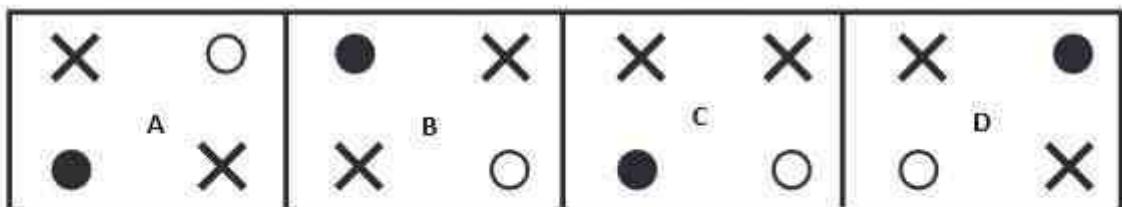
Answer Given by Candidate:- Y , Option ID : -137

Correct Answer :- X Option ID :- 138

Section : Generic, Q36

Question ID:- 36

In this problem, out of the four figures marked (A), (B), (C), and (D), three are similar in a certain manner. However, one figure is not like the others. Choose the figure which is different from the rest.



Options:-

Figure A

■ ,
Option ID :- 141,

Figure B

■ ,
Option ID :- 142,

Figure C

■ ,
Option ID :- 143,

Figure D

- ,
Option ID :- 144,

Answer Given by Candidate:-

Figure C

, **Option ID : -143**

Correct Answer :-

Figure C

Option ID :- 143

Section : Generic, Q37

Question ID:- 37

Read the following information and answer the questions given beside.

A few kids are playing in a park. They make four rules as a part of a game. The rule "D2 H9 A1 D4" states that the person would stand up and "take your shoes out". Then the rule "B2 A1 C1 A4" states to "take instant right turn". After this the rule "C3 P1 D2 C1" states that "jump on your turn". Finally, the rule "B2 D4 K2 C3" states "jump out instant again".

Find the code for 'shoes'.

Options:-

D2

- ,
Option ID :- 145,

H9

- ,
Option ID :- 146,

A1

- ,
Option ID :- 147,

D4

- ,
Option ID :- 148,

Answer Given by Candidate:-

H9

, **Option ID : -146**

Correct Answer :-

H9

Option ID :- 146

Section : Generic, Q38

Question ID:- 38

Read the following information and answer the questions given beside.

A few kids are playing in a park. They make four rules as a part of a game. The rule "D2 H9 A1 D4" states that the person would stand up and "take your shoes out". Then the rule "B2 A1 C1 A4" states to "take instant right turn". After this the rule "C3 P1 D2 C1" states that "jump on your turn". Finally, the rule "B2 D4 K2 C3" states "jump out instant again".

Find the code for 'your turn'.

Options:-

D1 C1

■ ,
Option ID :- 149,

D2 C1

■ ,
Option ID :- 150,

D2 C2

■ ,
Option ID :- 151,

D2 C3

■ ,
Option ID :- 152,

Answer Given by Candidate:-

D2 C1

, Option ID : -150

Correct Answer :-

D2 C1

Option ID :- 150

Section : Generic, Q39

Question ID:- 39

Read the following information and answer the questions given beside.

A few kids are playing in a park. They make four rules as a part of a game. The rule "D2 H9 A1 D4" states that the person would stand up and "take your shoes out". Then the rule "B2 A1 C1 A4" states to "take instant right turn". After this the rule "C3 P1 D2 C1" states that "jump on your turn". Finally, the rule "B2 D4 K2 C3" states "jump out instant again".

Find the code for 'jump out'.

Options:-

C3 D4

■ ,
Option ID :- 153,

C4 D3

■ ,
Option ID :- 154,

C3 D2

■ ,
Option ID :- 155,

C2 D3

■ ,
Option ID :- 156,

Answer Given by Candidate:- C3 D4 , **Option ID : -153**

Correct Answer :- C3 D4 **Option ID :- 153**

Section : Generic, Q40

Question ID:- 40

Read the following information and answer the questions given beside.

A few kids are playing in a park. They make four rules as a part of a game. The rule "D2 H9 A1 D4" states that the person would stand up and "take your shoes out". Then the rule "B2 A1 C1 A4" states to "take instant right turn". After this the rule "C3 P1 D2 C1" states that "jump on your turn". Finally, the rule "B2 D4 K2 C3" states "jump out instant again".

Find the possible code for 'take right move'.

Options:-

A1 P1 A4

■ ,
Option ID :- 157,

A4 A1 K2

■ ,
Option ID :- 158,

A1H9 A4

■ ,
Option ID :- 159,

A1F1 A4

■ ,
Option ID :- 160,

Answer Given by Candidate:- A1F1 A4 , **Option ID : -160**

Correct Answer :- A1F1 A4 **Option ID :- 160**

Section : Generic, Q41

Question ID:- 41

Read the following information and answer the questions given beside.

A few kids are playing in a park. They make four rules as a part of a game. The rule "D2 H9 A1 D4" states that the person would stand up and "take your shoes out". Then the rule "B2 A1 C1 A4" states to "take instant right turn". After this the rule "C3 P1 D2 C1" states that "jump on your turn". Finally, the rule "B2 D4 K2 C3" states "jump out instant again".

Find the code for 'again'.

Options:-

B2

■ ,
Option ID :- 161,

A4

■ ,
Option ID :- 162,

K2

■ ,
Option ID :- 163,

C3

■ ,
Option ID :- 164,

Answer Given by Candidate:- K2 , Option ID : -163

Correct Answer :- K2 Option ID :- 163

Section : Generic, Q42

Question ID:- 42

Statement: Footpaths of a busy road are crowded with vendors selling cheap items.

Courses of action:

- I. The help of police should be sought to drive them away.
- II. Some space should be provided to them where they can earn their bread without blocking footpaths.

Options:-

Only I follows

■ ,
Option ID :- 165,

Only II follows

■ ,
Option ID :- 166,

Either I or II follows

■ ,
Option ID :- 167,

Both I and II follows

■ ,
Option ID :- 168,

Either I or II follows

Answer Given by Candidate:- , Option ID : -167

Both I and II follows

Correct Answer :-

Option ID :- 168

Section : Technical, Q43

Question ID:- 43

Three dice are thrown the probability of getting a sum which is perfect square is:

Options:-

$$\frac{2}{5}$$

■ ,
Option ID :- 169,

$$\frac{9}{20}$$

■ ,
Option ID :- 170,

$$\frac{1}{4}$$

■ ,
Option ID :- 171,

none of these

■ ,
Option ID :- 172,

none of these

Answer Given by Candidate:- , Option ID : -172

none of these

Correct Answer :-

Option ID :- 172

Section : Technical, Q44

Question ID:- 44

A bag contains 6 black balls and 8 white balls. One ball is drawn at random, what is the probability that the ball drawn is white?

Options:-

$$\frac{4}{7}$$

- ,
Option ID :- 173,

$$\frac{3}{4}$$

- ,
Option ID :- 174,

$$\frac{4}{3}$$

- ,
Option ID :- 175,

$$\frac{1}{8}$$

- ,
Option ID :- 176,

$$\frac{1}{8}$$

Answer Given by Candidate:- , Option ID : -176

$$\frac{4}{7}$$

Correct Answer :- Option ID :- 173

Section : Technical, Q45

Question ID:- 45

If the mean and standard deviation of a binomial distribution are 20 and 4 respectively, then the number of trials is:

Options:-

$$50$$

- ,
Option ID :- 177,

$$25$$

- ,
Option ID :- 178,

100

■ ,
Option ID :- 179,

80

■ ,
Option ID :- 180,

Answer Given by Candidate:- 80 , Option ID : -180

Correct Answer :- 100 Option ID :- 179

Section : Technical, Q46

Question ID:- 46

Which one of these variables is a continuous random variable?

Options:-

The time it takes a randomly selected student to complete an exam.

■ ,
Option ID :- 181,

The number of tattoos a randomly selected person has.

■ ,
Option ID :- 182,

The number of women taller than 68 inches in a random sample of 5 women.

■ ,
Option ID :- 183,

The number of correct guesses on a multiple-choice test.

■ ,
Option ID :- 184,

Answer Given by Candidate:-

The number of correct guesses on a multiple-choice test.

, Option ID : -184

The time it takes a randomly selected student to complete an exam.

Correct Answer :-

Option ID :- 181

Section : Technical, Q47

Question ID:- 47

If there is a very strong correlation between two variables then the correlation coefficient must be _____.

Options:-

any value larger than 1.

Option ID :- 185,

much smaller than 0, if the correlation is negative.

Option ID :- 186,

much larger than 0, regardless of whether the correlation is negative or positive.

Option ID :- 187,

None of these alternatives is correct.

Option ID :- 188,

None of these alternatives is correct.

**Answer Given by Candidate:-
: -188**

, Option ID

**Correct Answer :-
186**

much smaller than 0, if the correlation is negative.

Option ID :-

Section : Technical, Q48**Question ID:- 48**

In a regression analysis if $r^2 = 1$, then _____.

Options:-

SSE must also be equal to one.

Option ID :- 189,

SSE must be equal to zero.

Option ID :- 190,

SSE can be any positive value.

Option ID :- 191,

SSE must be negative.

Option ID :- 192,

SSE must be negative.

Answer Given by Candidate:-

, Option ID : -192

Correct Answer :-

SSE must be equal to zero.

Option ID :- 190

Section : Technical, Q49

Question ID:- 49

Which of the following statement is not true?

Options:-

The sum of squares of deviations of set of values is minimum, when deviation taken from arithmetic mean.

Option ID :- 193,

The sum of absolute deviations of set of values is minimum, when deviation taken from median.

Option ID :- 194,

If A , G and H be the arithmetic mean, geometric mean and harmonic mean respectively of two positive numbers a and b , then $A \geq G \geq H$

Option ID :- 195,

$$\text{Mean} - \text{Mode} = \frac{1}{3}(\text{Mean} - \text{Median})$$

Option ID :- 196,

$$\text{Mean} - \text{Mode} = \frac{1}{3}(\text{Mean} - \text{Median})$$

Answer Given by Candidate:-
ID : -196

, Option

$$\text{Mean} - \text{Mode} = \frac{1}{3}(\text{Mean} - \text{Median})$$

Correct Answer :-

Option ID :- 196

Section : Technical, Q50

Question ID:- 50

The mileage C (in thousands of miles) which car owners get with a certain kind of tyres is a random variable having probability density function

$$f(x) = \begin{cases} \frac{1}{20} e^{-\frac{x}{20}}, & \text{for } x > 0 \\ 0, & \text{for } x \leq 0 \end{cases}$$

Find the probability that one of these tyres will last at least 30000 miles.

Options:-

$e^{-1/20}$

- ,
Option ID :- 197,

$e^{-0.5}$

- ,
Option ID :- 198,

$e^{-3/20}$

- ,
Option ID :- 199,

$e^{-1.5}$

- ,
Option ID :- 200,

$e^{-1.5}$

Answer Given by Candidate:- , Option ID : -200

$e^{-1.5}$

Correct Answer :- Option ID :- 200

Section : Technical, Q51

Question ID:- 51

If X is uniformly distributed random variable that takes value between 0 and 1. The expected value of X^2 is.

Options:-

$\frac{1}{4}$

- ,
Option ID :- 201,

$\frac{1}{3}$

- ,
Option ID :- 202,

$\frac{3}{4}$

- ,
Option ID :- 203,

■ ,
Option ID :- 204,

1
Answer Given by Candidate:- , Option ID : -204

$\frac{1}{3}$

Correct Answer :- Option ID :- 202

Section : Technical, Q52

Question ID:- 52

In a book of 520 pages, 390 typo-graphical errors occur. Assuming Poisson distribution for the number of errors per page, find the probability that a random sample of 4 pages will contain no error.

Options:-

e^{-3}

■ ,
Option ID :- 205,

$e^{-0.75}$

■ ,
Option ID :- 206,

$4e^{-0.75}$

■ ,
Option ID :- 207,

$1/e$

■ ,
Option ID :- 208,

$1/e$

Answer Given by Candidate:- , Option ID : -208

e^{-3}

Correct Answer :- Option ID :- 205

Section : Technical, Q53

Question ID:- 53

Convert the decimal number 157 to binary representation using the division-by-2 method.

Options:-

1001101

- ,

Option ID :- 209,

1010111

- ,

Option ID :- 210,

10011101

- ,

Option ID :- 211,

1100101

- ,

Option ID :- 212,**Answer Given by Candidate:- 10011101 , Option ID : -211****Correct Answer :- 10011101 Option ID :- 211**

Section : Technical, Q54**Question ID:- 54**

Perform the following hexadecimal subtraction: D8 - 5A.

Options:-

8E

- ,

Option ID :- 213,

7C

- ,

Option ID :- 214,

7E

- ,

Option ID :- 215,

9C

- ,

Option ID :- 216,**Answer Given by Candidate:- 7E , Option ID : -215****Correct Answer :- 7E Option ID :- 215**

Section : Technical, Q55**Question ID:- 55**

Convert the octal number 632 to decimal representation.

Options:-

- ,
Option ID :- 217,
- ,
Option ID :- 218,
- ,
Option ID :- 219,
- ,
Option ID :- 220,

Answer Given by Candidate:- 410 **Option ID : -220**

Correct Answer :- 410 **Option ID :- 220**

Section : Technical, Q56

Question ID:- 56

In a demux, when the number of selected lines is 10 and the number of output lines is n, then the value of n is _____.

Options:-

- ,
Option ID :- 221,
- ,
Option ID :- 222,
- ,
Option ID :- 223,
- ,
Option ID :- 224,

Answer Given by Candidate:- 1024 **Option ID : -221**

Correct Answer :- 1024 **Option ID :- 221**

Section : Technical, Q57

Question ID:- 57

Perform the simplification of the Boolean expression: $(A + B) \cdot (A + \neg B)$.

Options:-

A

■ ,
Option ID :- 225,

B

■ ,
Option ID :- 226,

A+B

■ ,
Option ID :- 227,

$A \rightarrow B$

■ ,
Option ID :- 228,

Answer Given by Candidate:- A , Option ID : -225

Correct Answer :- A Option ID :- 225

Section : Technical, Q58

Question ID:- 58

Which type of counter is designed to count in a specific sequence and requires an external clock signal?

Options:-

Asynchronous counter

■ ,
Option ID :- 229,

Synchronous counter

■ ,
Option ID :- 230,

Ripple counter

■ ,
Option ID :- 231,

Up/down counter

■ ,
Option ID :- 232,

Answer Given by Candidate:-

Synchronous counter

, Option ID : -230

Correct Answer :-

Synchronous counter

Option ID :- 230

Section : Technical, Q59

Question ID:- 59

In a hard disk, disk is rotating with 6000 RPM, data rate is 60 KB/sec, average seek time is 10 msec and controller overhead is 0.1 msec. What is the average access time for transferring 1024 bytes of data?

Options:-

22.6 msec

■ **Option ID :- 233,**

32.16 msec

■ **Option ID :- 234,**

39.8 msec

■ **Option ID :- 235,**

20.45 msec

■ **Option ID :- 236,**

Answer Given by Candidate:-

20.45 msec

, **Option ID : -236**

Correct Answer :-

32.16 msec

Option ID :- 234

Section : Technical, Q60

Question ID:- 60

Which type of memory is faster and closer to the CPU, used to store frequently accessed data and instructions?

Options:-

Secondary storage

■ **Option ID :- 237,**

Cache memory

■ **Option ID :- 238,**

Main memory

■ **Option ID :- 239,**

Virtual Memory

■ **Option ID :- 240,**

Answer Given by Candidate:-

Cache memory

, Option ID : -238

Correct Answer :-

Cache memory

Option ID :- 238

Section : Technical, Q61

Question ID:- 61

What is the purpose of instruction pipelining in a processor?

Options:-

To improve instruction sequencing

■ To reduce the number of microinstructions

Option ID :- 241,

To increase the clock frequency

■ To improve instruction execution throughput

Option ID :- 242,

To improve instruction execution throughput

■ To reduce the number of microinstructions

Option ID :- 243,

To improve instruction execution throughput

■ To increase the clock frequency

Option ID :- 244,

To improve instruction execution throughput

Answer Given by Candidate:-

ID : -244

, Option

Correct Answer :-

To improve instruction execution throughput

Option ID :- 244

Section : Technical, Q62

Question ID:- 62

Consider the following page reference string.

3, 2, 1, 3, 4, 1, 6, 2, 4, 3, 4, 2, 1, 4, 5, 2, 1, 3, 4

How many page faults will occur with LRU replacement algorithm with 3 frames?

Options:-

■ 18

■ 19

Option ID :- 245,

■ 14

■ 15

Option ID :- 246,

11

■ ,
Option ID :- 247,

9

■ ,
Option ID :- 248,

Answer Given by Candidate:- 14 , **Option ID : -246**

Correct Answer :- 14 **Option ID :- 246**

Section : Technical, Q63

Question ID:- 63

Which memory technology is designed to improve the memory bus efficiency and increase the data transfer rate between memory and the CPU?

Options:-

■ SRAM (Static Random Access Memory)

■ ,
Option ID :- 249,

■ DRAM (Dynamic Random Access Memory)

■ ,
Option ID :- 250,

■ SDRAM (Synchronous Dynamic Random Access Memory)

■ ,
Option ID :- 251,

■ Rambus Memory

■ ,
Option ID :- 252,

Answer Given by Candidate:-

SDRAM (Synchronous Dynamic Random Access Memory) , **Option ID : -251**

Rambus Memory
Correct Answer :- **Option ID :- 252**

Section : Technical, Q64

Question ID:- 64

Which technique allows overlapping of instruction execution stages to improve processor efficiency and throughput?

Options:-

Hardwired control
■ **Option ID :- 253,**
Microprogrammed control

■ **Option ID :- 254,**

Instruction pipelining

■ **Option ID :- 255,**

Virtual memory

■ **Option ID :- 256,**

Answer Given by Candidate:- Instruction pipelining , **Option ID : -255**

Correct Answer :- Instruction pipelining **Option ID :- 255**

Section : Technical, Q65

Question ID:- 65

Which control mechanism involves using a fixed circuitry to generate control signals and execute instructions?

Options:-

■ Hardwired control
■ **Option ID :- 257,**
Microprogrammed control

■ **Option ID :- 258,**

Instruction pipelining

■ **Option ID :- 259,**

Virtual memory

■ **Option ID :- 260,**

Answer Given by Candidate:- Hardwired control , **Option ID : -257**

Correct Answer :- Hardwired control **Option ID :- 257**

Section : Technical, Q66

Question ID:- 66

Which of the following is the correct output for the program given below?

```
#include<stdio.h>
int main()
{
    static int arr[]={5, 6, 7, 9, 10};
    int *p[]={arr, arr+1, arr+2, arr+3, arr+4};
    int **ptr = p;

    *ptr++;
    printf("%d %d %d\n", ptr[0], *ptr[0], **ptr);
    return 0;
}
```

Options:-

- 154 ,
Option ID :- 261,
- 112 ,
Option ID :- 262,
- 116 ,
Option ID :- 263,
- 156 ,
Option ID :- 264,

Answer Given by Candidate:- 116 , Option ID : -263

Correct Answer :- 116 Option ID :- 263

Section : Technical, Q67

Question ID:- 67

For an input restricted Dequeue, which among the following is correct?

Options:-

- Input is not possible ,
Option ID :- 265,
- Input at one end deletion at other end ,
Option ID :- 266,

■ Deletion is not possible

Option ID :- 267,

■ Deletion at both ends

Option ID :- 268,

Answer Given by Candidate:-

■ Deletion at both ends

, Option ID : -268

Correct Answer :-

Option ID :- 268

Section : Technical, Q68

Question ID:- 68

What is the correct postfix expression for the given infix expression?

a+(b*c(d/e^f)*g*h)

Options:-

ab*cdef/^*g*h+

Option ID :- 269,

abcdef/^*g*h*+

Option ID :- 270,

abcd**ed/g*h*+

Option ID :- 271,

abc*de^fg/**h+

Option ID :- 272,

Answer Given by Candidate:-

■ abcdef/^*g*h*+

, Option ID : -270

Correct Answer :-

■ abcdef/^*g*h*+

Option ID :- 270

Section : Technical, Q69

Question ID:- 69

The output of the following C code will produce _____.

```
main()
{
    int n;
    Scanf ("%d", &n);
    Printf ("%d", (n<<3)+n);
}
```

Options:-

Multiply the n by 3

■ **Option ID :- 273,**

Multiply the n by 9

■ **Option ID :- 274,**

Double the value of n

■ **Option ID :- 275,**

Triple the value of n

■ **Option ID :- 276,**

Answer Given by Candidate:-

Multiply the n by 9

, Option ID : -274

Correct Answer :-

Multiply the n by 9

Option ID :- 274

Section : Technical, Q70

Question ID:- 70

Which of the following data structures uses both LIFO and FIFO behaviours?

Options:-

Array

■ **Option ID :- 277,**

Stack

■ **Option ID :- 278,**

Queue

■ **Option ID :- 279,**

Linked List

■ **Option ID :- 280,**

Linked List

Answer Given by Candidate:-

Linked List

, Option ID : -280

Correct Answer :-

Linked List

Option ID :- 280

Section : Technical, Q71

Question ID:- 71

What is the purpose of the **static** keyword when used with a global variable in C?

Options:-

It limits the scope of the variable to the current file only.

■ **Option ID :- 281,**

It ensures that the variable retains its value between function calls.

■ **Option ID :- 282,**

It allows the variable to be accessed by any function within the program.

■ **Option ID :- 283,**

It prevents the variable from being modified after its initialization.

■ **Option ID :- 284,**

Answer Given by Candidate:-

It ensures that the variable retains its value between function calls.

, **Option ID : -282**

It ensures that the variable retains its value between function calls.

Correct Answer :-

Option ID :- 282

Section : Technical, Q72

Question ID:- 72

What is the output of the following Python code?

```
def outer_func(x):
    def inner_func(y):
        return x + y
    return inner_func

closure = outer_func(10)
result = closure(5)
print(result)
```

Options:-

■ 10

■ **Option ID :- 285,**

■ 5

■ **Option ID :- 286,**

15

■ ,
Option ID :- 287,

20

■ ,
Option ID :- 288,

Answer Given by Candidate:- 15 , Option ID : -287

Correct Answer :- 15 Option ID :- 287

Section : Technical, Q73

Question ID:- 73

Which of the following is an example of encapsulation in object-oriented programming?

Options:-

Inheritance

■ ,
Option ID :- 289,

Polymorphism

■ ,
Option ID :- 290,

Abstraction

■ ,
Option ID :- 291,

Private member variables and public member functions

■ ,
Option ID :- 292,

Answer Given by Candidate:- , Option ID : -292

Private member variables and public member functions

Correct Answer :-
- 292

Option ID

Private member variables and public member functions

Section : Technical, Q74

Question ID:- 74

Which among the following is correct for the class defined below?

```
class employee
{
    int salary;
    public: employee(){}
    employee(int a)
    {
        salary=a;
    }
};

main()
{
    employee b1(100);
    employee b2;
    employee b3=100;
    return 0;
}
```

Options:-

Only object b3 will be created

Option ID :- 293,

All the three objects, b1, b2, and b3 will be created

Option ID :- 294,

Only object b1 will be created

Option ID :- 295,

Program will give compile time error

Option ID :- 296,

All the three objects, b1, b2, and b3 will be created

Answer Given by Candidate:-

Option ID : -294

All the three objects, b1, b2, and b3 will be created

Correct Answer :-

294

Option ID :-

Section : Technical, Q75

Question ID:- 75

Which programming language is primarily used for web development and is known for its flexibility and ease of integration?

Options:-

Java
■ ,
Option ID :- 297,

PHP
■ ,
Option ID :- 298,

Python
■ ,
Option ID :- 299,

GoLang
■ ,
Option ID :- 300,

Answer Given by Candidate:- PHP , Option ID : -298

Correct Answer :- PHP **Option ID :- 298**

Section : Technical, Q76

Question ID:- 76

Which of the following is the correct output for the python program given below?

```
x = ("1", "2", "3")
a = "{s1}{s2}".format(s1 = 1, s2 = 2)
b = "{0}{1}".format("3",4)
c = "{}{}".format(5, 6)
d = "5".join(x)
e = a + b + c + d
print(e)
```

Options:-

123123456
■ ,
Option ID :- 301,

12345615253
■ ,
Option ID :- 302,

124565123
■ ,
Option ID :- 303,

123451235
■ ,
Option ID :- 304,

Answer Given by Candidate:- 12345615253 , Option ID : -302

Correct Answer :-

12345615253

Option ID :- 302

Section : Technical, Q77

Question ID:- 77

Which of the following is the correct output for the C++ program given below?

```
class Shape {  
public:  
    virtual void draw(){  
        cout << "Drawing a shape." << endl;  
    }  
};  
  
class Circle : public Shape {  
public:  
    void draw() {  
        cout << "Drawing a circle." << endl;  
    }  
};  
  
int main(){  
    Shape* shapePtr = new Circle();  
    shapePtr->draw();  
    delete shapePtr;  
    return 0;  
}
```

Options:-

- Drawing a shape.
- Drawing a circle.
- Compilation error.
- Runtime error.
- Runtime error.

Answer Given by Candidate:-

Runtime error. , **Option ID : -308**

Correct Answer :-

Drawing a circle.

Option ID :- 306

Section : Technical, Q78

Question ID:- 78

Suppose, the characters a, b, c, d, e, f has frequencies 5, 9, 12, 13, 16, 45 respectively. Which of the following is the Huffman code for the letter a, b, c, d, e, f?

Options:-

0, 10, 110, 1110, 11110, 11111

Option ID :- 309,

1100, 1101, 100, 101, 111, 0

Option ID :- 310,

11, 10, 01, 001, 0001, 0000

Option ID :- 311,

110, 100, 010, 000, 001, 111

Option ID :- 312,

1100, 1101, 100, 101, 111, 0

Answer Given by Candidate:- , **Option ID :**
-310

Correct Answer :-

1100, 1101, 100, 101, 111, 0

Option ID :- 310

Section : Technical, Q79

Question ID:- 79

Match the following data and choose the correct option from those given below.

- | | |
|--|--------------------|
| 1) Worst case time complexity of Heap Sort | i) $O(n^2)$ |
| 2) Best case time complexity of Selection Sort | ii) $O(n)$ |
| 3) Best case time complexity of Insertion Sort | iii) $O(n \log n)$ |
| 4) Average case time complexity of Binary search | iv) $O(\log n)$ |

Options:-

1-ii, 2-i, 3-iv, 4-iii

Option ID :- 313,

1-ii, 2-iii, 3-i, 4-iv

Option ID :- 314,

1-iii, 2-i, 3-ii, 4-iv

Option ID :- 315,

1-iii, 2-iv, 3-i, 4-ii

■ **Option ID :- 316,**

Answer Given by Candidate:-

1-ii, 2-iii, 3-i, 4-iv

, **Option ID : -314**

Correct Answer :-

1-iii, 2-i, 3-ii, 4-iv

Option ID :- 315

Section : Technical, Q80

Question ID:- 80

Which of the following is true about the worst-case time complexity of an algorithm?

Options:-

It represents the average time taken by the algorithm to execute.

■ **Option ID :- 317,**

It represents the minimum time taken by the algorithm to execute.

■ **Option ID :- 318,**

It represents the maximum time taken by the algorithm to execute.

■ **Option ID :- 319,**

It represents the best-case time taken by the algorithm to execute.

■ **Option ID :- 320,**

Answer Given by Candidate:-

It represents the maximum time taken by the algorithm to execute.

, **Option ID : -319**

Correct Answer :-

It represents the maximum time taken by the algorithm to execute.

Option ID :- 319

Section : Technical, Q81

Question ID:- 81

What is recurrence for Merge Sort and what is the time complexity in Worst case?

Options:-

Recurrence is $T(n) = T(n/2) + O(n)$ and time complexity is $O(n^2)$

■ **Option ID :- 321,**

Recurrence is $T(n) = T(n-1) + O(n)$ and time complexity is $O(n^2)$

Option ID :- 322,

Recurrence is $T(n) = 2T(n/2) + O(n)$ and time complexity is $O(n \log n)$

Option ID :- 323,

Recurrence is $T(n) = T(n/10) + T(9n/10) + O(n)$ and time complexity is $O(n \log n)$

Option ID :- 324,

Answer Given by Candidate:-

Recurrence is $T(n) = 2T(n/2) + O(n)$ and time complexity is $O(n \log n)$

, **Option ID : -323**

Correct Answer :-

Option ID :- 323

Section : Technical, Q82

Question ID:- 82

Which of the following data structures is best suited to implement a priority queue?

Options:-

Linked list

Option ID :- 325,

Queue

Option ID :- 326,

Stack

Option ID :- 327,

Heap

Option ID :- 328,

Answer Given by Candidate:- **Heap** , **Option ID : -328**

Correct Answer :- **Heap** **Option ID :- 328**

Section : Technical, Q83

Question ID:- 83

Which of the following graph algorithms is commonly used to find the strongly connected components in a directed graph?

Options:-

Breadth-first search (BFS)

■ **Option ID :- 329,**

Depth-first search (DFS)

■ **Option ID :- 330,**

Dijkstra's algorithm

■ **Option ID :- 331,**

Prim's algorithm

■ **Option ID :- 332,**

Answer Given by Candidate:-

Prim's algorithm

, **Option ID : -332**

Correct Answer :-

Depth-first search (DFS)

Option ID :- 330

Section : Technical, Q84

Question ID:- 84

The keys 31, 19, 2, 13, 25, 24, 21, 9, 23, 33 and 5 are inserted into an initially empty hash table of length 11 using open addressing with hash function $h(k) = k \bmod 11$ and quadratic probing. What is the resultant sequence of numbers in hash table?

Options:-

33 23 2 13 25 5 24 9 19 31 21

■ **Option ID :- 333,**

33 23 2 25 13 5 24 9 31 19 21

■ **Option ID :- 334,**

33 23 13 25 2 5 24 31 9 19 21

■ **Option ID :- 335,**

none of the above

■ **Option ID :- 336,**

Answer Given by Candidate:-

33 23 2 13 25 5 24 9 19 31 21

, **Option ID :**

-333

Correct Answer :-

33 23 2 13 25 5 24 9 19 31 21

Option ID :- 333

Section : Technical, Q85

Question ID:- 85

Which of the following sorting algorithms guarantees a worst-case time complexity of $O(n \log n)$ for all inputs?

Options:-

Bubble sort

Option ID :- 337,

Insertion sort

Option ID :- 338,

Quick sort

Option ID :- 339,

Merge sort

Option ID :- 340,

Answer Given by Candidate:-

Merge sort

, Option ID : -340

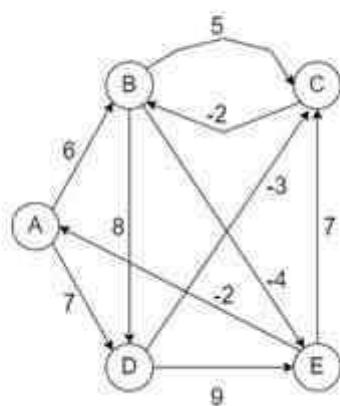
Correct Answer :-

Merge sort **Option ID :- 340**

Section : Technical, Q86

Question ID:- 86

Consider the following graph. Find the single-source shortest path from source vertex A to vertex E. Choose the correct option for the cost of the shortest path.



Options:-

16

Option ID :- 341,

2

Option ID :- 342,

2

■ **Option ID :- 343,**

none of the above

■ **Option ID :- 344,**

Answer Given by Candidate:- 2 , **Option ID : -342**

Correct Answer :- 2 **Option ID :- 343**

Section : Technical, Q87

Question ID:- 87

Relation employeeinfo(empid, name, sex) gives information about employees. The relation assign (empid, projectid) gives the information about which employee is assigned to which project. Assume that every project is assigned to at least one male and one female employee. What does the following expression represent?

$$\Pi_{\text{projectid}}((\Pi_{\text{empid}}(\sigma_{\text{sex}=\text{"male"}}(\text{employeeinfo})) \times \Pi_{\text{projectid}}(\text{assign})) - \text{assign})$$

Options:-

projects in which all male employees are assigned

■ **Option ID :- 345,**

projects in which only male employees are assigned

■ **Option ID :- 346,**

projects in which proper subset of male employees are assigned

■ **Option ID :- 347,**

projects in which some male and female employees are assigned

■ **Option ID :- 348,**

Answer Given by Candidate:-

projects in which some male and female employees are assigned

, **Option ID : -348**

projects in which proper subset of male employees are assigned

Correct Answer :-

Option ID :- 347

Section : Technical, Q88

Question ID:- 88

Which of the following represents the relationship between two entities in the ER-model?

Options:-

Primary Key
■ ,
Option ID :- 349,

Candidate Key
■ ,
Option ID :- 350,

Super Key
■ ,
Option ID :- 351,

A foreign key
■ ,
Option ID :- 352,

Answer Given by Candidate:- A foreign key , **Option ID : -352**

Correct Answer :- A foreign key **Option ID :- 352**

Section : Technical, Q89

Question ID:- 89

Match the following data and choose the correct option from those given below.

- | | |
|----------------|---|
| 1) Atomicity | i) integrity constraints must be maintained |
| 2) Consistency | ii) changes of a successful transaction occurs even if the system failure occurs |
| 3) Isolation | iii) transaction should execute all the operations including commit or none of them |
| 4) Durability | iv) multiple transactions occur independently without inference |

Options:-

1-iii, 2-iv, 3-i, 4-iv
■ ,

Option ID :- 353,
1-iii, 2-i, 3-iv, 4-ii
■ ,

Option ID :- 354,
1-ii, 2-iii, 3-iv, 4-i
■ ,

Option ID :- 355,
1-iv, 2-iii, 3-i, 4-ii
■ ,

Option ID :- 356,
1-iv, 2-iii, 3-i, 4-ii
■ ,

Answer Given by Candidate:-

1-iii, 2-i, 3-iv, 4-ii

, Option ID : -354

Correct Answer :-

1-iii, 2-i, 3-iv, 4-ii

Option ID :- 354

Section : Technical, Q90

Question ID:- 90

Which normal form ensures that there are no transitive dependencies in a relation?

Options:-

First Normal Form (1NF)

■

Option ID :- 357,

Second Normal Form (2NF)

■

Option ID :- 358,

Third Normal Form (3NF)

■

Option ID :- 359,

Boyce-Codd Normal Form (BCNF)

■

Option ID :- 360,

Boyce-Codd Normal Form (BCNF)

Answer Given by Candidate:-

-360

, Option ID :

Correct Answer :-

Third Normal Form (3NF)

Option ID :- 359

Section : Technical, Q91

Question ID:- 91

You have been given two tables, Customers and Orders as follows:

Customers

customer_id	first_name	last_name	age	country
1	John	Doe	31	USA
2	Robert	Luna	22	USA
3	David	Robinson	22	UK
4	John	Reinhardt	25	UK
5	Betty	Doe	28	UAE

Orders

order_id	item	amount	customer_id	order_id
1	Keyboard	400	4	1
2	Mouse	300	4	2
3	Monitor	12000	3	3
4	Keyboard	400	1	4
5	Mousepad	250	2	5

What is the output of the following SQL query?

```
SELECT Count(*)
FROM ((SELECT customer_id, first_name, last_name
      FROM Customers) AS A
      NATURAL JOIN (SELECT last_name,
                           age, country
      FROM Customers) AS B);
```

Options:-

10

■ ,
Option ID :- 361,

5

■ ,
Option ID :- 362,

7

■ ,
Option ID :- 363,

9

■ ,
Option ID :- 364,

9
Answer Given by Candidate:- , Option ID : -364

7
Correct Answer :- Option ID :- 363

Section : Technical, Q92

Question ID:- 92

Which normal form ensures that there are no partial dependencies in a relation?

Options:-

First Normal Form (1NF)

Option ID :- 365,

Second Normal Form (2NF)

Option ID :- 366,

Third Normal Form (3NF)

Option ID :- 367,

Boyce-Codd Normal Form (BCNF)

Option ID :- 368,

Boyce-Codd Normal Form (BCNF)

Answer Given by Candidate:-

-368

, Option ID :

Correct Answer :-

Second Normal Form (2NF) **Option ID :- 366**

Section : Technical, Q93

Question ID:- 93

Which file structure is commonly used for fast retrieval of records based on a search key value?

Options:-

Sequential file

Option ID :- 369,

Index file

Option ID :- 370,

B-tree

Option ID :- 371,

B+ tree

Option ID :- 372,

B+ tree

Answer Given by Candidate:-

, Option ID : -372

Correct Answer :-

Index file

Option ID :- 370

Section : Technical, Q94

Question ID:- 94

The number of tokens in the following C statement is _____.

printf("Hey, we need %0.f lights.\n", lights);

Options:-

- ,
Option ID :- 373,
- ,
Option ID :- 374,
- ,
Option ID :- 375,
none of the above
- ,
Option ID :- 376,

Answer Given by Candidate:- 7 , Option ID : -374

Correct Answer :- 7 Option ID :- 374

Section : Technical, Q95

Question ID:- 95

Which parsing technique uses a grammar to analyze the syntactic structure of a program?

Options:-

- Top-down parsing
Option ID :- 377,
- Bottom-up parsing
Option ID :- 378,
- LR parsing
Option ID :- 379,
- LL parsing
Option ID :- 380,

Answer Given by Candidate:- LL parsing , Option ID : -380

Section : Technical, Q96**Question ID:- 96**

Which phase of the compiler associates' attributes with the grammar symbols and performs computations during parsing?

Options:-

- Lexical analysis

- ,
Option ID :- 381,

- Parsing

- ,
Option ID :- 382,

- Syntax-directed translation

- ,
Option ID :- 383,

- Code generation

- ,
Option ID :- 384,

Answer Given by Candidate:-

Syntax-directed translation

Correct Answer :-

, Option ID : -383

Syntax-directed translation

Option ID :- 383

Section : Technical, Q97**Question ID:- 97**

Consider the following table of arrival time and burst time for five processes P0, P1, P2, P3 and P4.

Process Id	Arrival Time	Burst Time
P0	0ms	5ms
P1	1ms	3ms
P2	2ms	1ms
P3	3ms	2ms
P4	4ms	3ms

The round robin scheduling algorithm is used with time quantum = 2. What is the average turn around time for the five processes?

Options:-

5.8ms

■ ,
Option ID :- 385,

7ms

■ ,
Option ID :- 386,

8.6ms

■ ,
Option ID :- 387,

12ms

■ ,
Option ID :- 388,

Answer Given by Candidate:- 8.6ms , **Option ID : -387**

Correct Answer :- 8.6ms **Option ID :- 387**

Section : Technical, Q98

Question ID:- 98

Which part of the assembler resolves symbolic addresses in the assembly code to their corresponding memory locations?

Options:-

Lexical analysis

■ ,
Option ID :- 389,

Parsing

■ ,
Option ID :- 390,

Linker

■ ,
Option ID :- 391,

Loader

■ ,
Option ID :- 392,

Answer Given by Candidate:- Loader , **Option ID : -392**

Correct Answer :- Linker **Option ID :- 391**

Section : Technical, Q99

Question ID:- 99

A CPU generates 32-bit virtual addresses. The page size is 8 KB. The processor has a translation look-aside buffer (TLB) which can hold a total of 256 page table entries and is 4-way set associative. The minimum size of the TLB tag is:

Options:-

- 11 bits
- ,
Option ID :- 393,
- 13 bits
- ,
Option ID :- 394,
- 15 bits
- ,
Option ID :- 395,
- 20 bits
- ,
Option ID :- 396,

Answer Given by Candidate:- ^{11 bits} , **Option ID : -393**

Correct Answer :- ^{13 bits} **Option ID :- 394**

Section : Technical, Q100

Question ID:- 100

What is the term used to describe the execution of multiple threads in a concurrent manner?

Options:-

- Multiprocessing
- ,
Option ID :- 397,
- Multithreading
- ,
Option ID :- 398,
- Multitasking
- ,
Option ID :- 399,
- Multiuser
- ,
Option ID :- 400,

Answer Given by Candidate:- Multithreading , **Option ID : -398**

Correct Answer :- Multithreading **Option ID :- 398**

Section : Technical, Q101

Question ID:- 101

Which phase of the system development life cycle involves understanding the business requirements, identifying stakeholders, and determining the feasibility of the project?

Options:-

Information gathering requirement and feasibility analysis

■ **Option ID :- 401,**

Design

■ **Option ID :- 402,**

Implementation

■ **Option ID :- 403,**

Maintenance

■ **Option ID :- 404,**

Answer Given by Candidate:-

Information gathering requirement and feasibility analysis

, **Option ID : -401**

Information gathering requirement and feasibility analysis
Correct Answer :-
- 401

Option ID

Section : Technical, Q102

Question ID:- 102

Match the following data of SDLC models and choose the correct option from those given below.

- | | |
|--------------------|---|
| 1) Waterfall model | i) risk-driven approach and iterative development |
| 2) Agile model | ii) linear, sequential approach |
| 3) Spiral model | iii) frequent collaboration, adaptability, and iterative development |
| 4) V-model | iv) verification and validation approach with specific testing phases |

Options:-

1-iv, 2-i, 3-iii, 4-ii

■ **Option ID :- 405,**

1-ii, 2-iii, 3-i, 4-iv

■ **Option ID :- 406,**

1-iii, 2-iv, 3-i, 4-ii

■ **Option ID :- 407,**

1-iii, 2-i, 3-iv, 4-ii

■ **Option ID :- 408,**

Answer Given by Candidate:-

1-iii, 2-i, 3-iv, 4-ii

, **Option ID : -408**

Correct Answer :-

1-ii, 2-iii, 3-i, 4-iv

Option ID :- 406

Section : Technical, Q103

Question ID:- 103

Which document provides detailed information about how a specific process in a system should be performed?

Options:-

Data flow diagram

■ **Option ID :- 409,**

Process specification

■ **Option ID :- 410,**

Use case diagram

■ **Option ID :- 411,**

Entity-relationship diagram

■ **Option ID :- 412,**

Entity-relationship diagram

Answer Given by Candidate:-

, **Option ID : -412**

Process specification

Correct Answer :-

Option ID :- 410

Section : Technical, Q104

Question ID:- 104

If a program calls two subprograms P1 and P2 and P1 can fail 30% of the time and P2 can fail 50% of the time, what is the failure rate of program P?

Options:-

65%
■ ,
Option ID :- 413,

55%
■ ,
Option ID :- 414,

75%
■ ,
Option ID :- 415,

45%
■ ,
Option ID :- 416,

Answer Given by Candidate:- 45% , **Option ID : -416**

Correct Answer :- 65% **Option ID :- 413**

Section : Technical, Q105

Question ID:- 105

Which phase of the software development life cycle involves translating the design specifications into executable code?

Options:-

Design
■ ,
Option ID :- 417,

Planning and managing the project
■ ,

Coding and testing
■ ,
Option ID :- 418,

Implementation
■ ,
Option ID :- 419,

Coding and testing
■ ,
Option ID :- 420,

Answer Given by Candidate:- Implementation , **Option ID : -420**

Coding and testing
Correct Answer :- Implementation **Option ID :- 419**

Section : Technical, Q106

Question ID:- 106

The availability of a complex software is 80%. Its Mean Time Between Failure (MTBF) is 300 days. Because of the critical nature of the usage, the organization deploying the software further enhanced it to obtain an availability of 92%. In the process, the Mean Time to Repair (MTTR) increased by 12 days. Approximately, what is the MTBF of the enhanced software?

Options:-

1200

- ,
Option ID :- 421,

1001

- ,
Option ID :- 422,

2000

- ,
Option ID :- 423,

1500

- ,
Option ID :- 424,

Answer Given by Candidate:- 1500 , Option ID : -424

Correct Answer :- 1001 Option ID :- 422

Section : Technical, Q107

Question ID:- 107

Match the following data of OSI model and choose the correct option from those given below.

- | | |
|----------------------|----------|
| 1) Data link layer | i) UDP |
| 2) Network layer | ii) FTP |
| 3) Transport Layer | iii) SCP |
| 4) Session Layer | iv) IP |
| 5) Application layer | v) PPP |

Options:-

1-ii, 2-iii, 3-iv, 4-i, 5-v

- ,
Option ID :- 425,

1-iii, 2-i, 3-ii, 4-v, 5-iv

- ,
Option ID :- 426,

1-v, 2-iv, 3-i, 4-iii, 5-ii

■ **Option ID :- 427,**

1-iv, 2-iii, 3-ii, 4-v, 5-i

■ **Option ID :- 428,**

Answer Given by Candidate:-

1-iv, 2-iii, 3-ii, 4-v, 5-i

, **Option ID : -428**

Correct Answer :-

1-v, 2-iv, 3-i, 4-iii, 5-ii

Option ID :- 427

Section : Technical, Q108

Question ID:- 108

If a dedicated line transfer 4K frames/sec and every slot has 16 bits. Then the transmission rate of the circuit using Time distance multiplexing is _____

Options:-

64000 bps

■ **Option ID :- 429,**

16000 bps

■ **Option ID :- 430,**

250 bps

■ **Option ID :- 431,**

32000 bps

■ **Option ID :- 432,**

Answer Given by Candidate:-

64000 bps

, **Option ID : -429**

Correct Answer :-

64000 bps

Option ID :- 429

Section : Technical, Q109

Question ID:- 109

Which routing algorithm (best option) is used in the Internet to find the shortest path between two network nodes?

Options:-

Distance Vector

■ **Option ID :- 433,**

- Link State
- Option ID :- 434,
- RIP
- Option ID :- 435,
- OSPF
- Option ID :- 436,

Answer Given by Candidate:- OSPF , **Option ID : -436**

Correct Answer :- Link State **Option ID :- 434**

Section : Technical, Q110

Question ID:- 110

Consider a CSMA/CD network that transmits data at a rate of 10 Mbps over a 5 km cable with no repeaters. If the minimum frame size required for this network is 1250 bytes, what is the signal speed (km/sec) in the cable?

Options:-

- 8000
- 10000
- 16000
- 20000
- 25000
- 30000
- 35000
- 40000
- 45000
- 50000
- 55000
- 60000
- 65000
- 70000
- 75000
- 80000
- 85000
- 90000
- 95000
- 100000
- 105000
- 110000
- 115000
- 120000
- 125000
- 130000
- 135000
- 140000
- 145000
- 150000
- 155000
- 160000
- 165000
- 170000
- 175000
- 180000
- 185000
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- 195000
- 200000
- 205000
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- 225000
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- 255000
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- 290000
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- 300000
- 305000
- 310000
- 315000
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- 405000
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- 780000
- 785000
- 790000
- 795000
- 800000
- 805000
- 810000
- 815000
- 820000
- 825000
- 830000
- 835000
- 840000
- 845000
- 850000
- 855000
- 860000
- 865000
- 870000
- 875000
- 880000
- 885000
- 890000
- 895000
- 900000
- 905000
- 910000
- 915000
- 920000
- 925000
- 930000
- 935000
- 940000
- 945000
- 950000
- 955000
- 960000
- 965000
- 970000
- 975000
- 980000
- 985000
- 990000
- 995000
- 1000000

Answer Given by Candidate:- 200000 , **Option ID : -440**

Correct Answer :- 100000 . **Option ID :- 438**

Section : Technical, Q111

Question ID:- 111

Which protocol is responsible for reliable, connection-oriented Communication between applications in the Internet?

Options:-

TCP
■ ,
Option ID :- 441,

UDP
■ ,
Option ID :- 442,

IP
■ ,
Option ID :- 443,

ICMP
■ ,
Option ID :- 444,

Answer Given by Candidate:- ICMP , **Option ID : -444**

Correct Answer :- TCP **Option ID :- 441**

Section : Technical, Q112

Question ID:- 112

Match the following data and choose the correct option from those given below.

- | | |
|----------|--|
| 1) HTTPS | i) used for real-time communication and event-based messaging with a server. |
| 2) SMTP | ii) used to securely transfer files to a server over the internet. |
| 3) MQTT | iii) used for network management and monitoring. |
| 4) SNMP | iv) used to send or receive email messages from a remote mail server |

Options:-

1-ii, 2-i, 3-iv, 4-iii

■ ,
Option ID :- 445,

1-ii, 2-iv, 3-i, 4-iii

■ ,
Option ID :- 446,

1-iii, 2-i, 3-ii, 4-iv

■ ,
Option ID :- 447,

1-ii, 2-iii, 3-i, 4-iv

■ ,
Option ID :- 448,

Answer Given by Candidate:-

1-ii, 2-iv, 3-i, 4-iii

, Option ID : -446

Correct Answer :-

1-ii, 2-iv, 3-i, 4-iii

Option ID :- 446

Section : Technical, Q113

Question ID:- 113

Which application layer protocol is used for the retrieval of email messages from a mail server?

Options:-

■ SMTP
■ ,
Option ID :- 449,

■ POP
■ ,
Option ID :- 450,

■ FTP
■ ,
Option ID :- 451,

■ Bluetooth
■ ,
Option ID :- 452,

Answer Given by Candidate:- SMTP , Option ID : -449

Correct Answer :- POP **Option ID :- 450**

Section : Technical, Q114

Question ID:- 114

Given ISP has a BLOCK 205.65.0.0/19. A company requires IP address for 700 computers. Which of the following is eligible range of IP address which can be assigned to the company?

- I. 205.65.16.0/22
- II. 205.65.25.0/22
- III. 205.65.56.0/22
- IV. 205.65.28.0/22

Select among the following.

Options:-

■ I and IV
■ ,
Option ID :- 453,

- II and III
' ,
Option ID :- 454,
I, II and III
' ,
Option ID :- 455,
II and IV
' ,
Option ID :- 456,

Answer Given by Candidate:- II and IV , **Option ID : -456**
Correct Answer :- I and IV **Option ID :- 453**

Section : Technical, Q115

Question ID:- 115

Match the following data related to HTML5 and choose the correct option from those given below:

- | | |
|--------|---|
| 1) src | i) isolates a part of text that might be formatted in a different direction from other text outside it. |
| 2) for | ii) specify the URL of the image in the tag |
| 3) bdi | iii) used to associate a label with an input element |
| 4) kbd | iv) used to display the content in the browser's default monospace font |

Options:-

- 1-ii, 2-i, 3-iv, 4-iii
' ,
Option ID :- 457,
1-iii, 2-iv, 3-i, 4-ii
■ ,
Option ID :- 458,
1-iii, 2-i, 3-ii, 4-iv
■ ,
Option ID :- 459,
1-ii, 2-iii, 3-i, 4-iv
■ ,
Option ID :- 460,

Answer Given by Candidate:- 1-iii, 2-i, 3-ii, 4-iv , **Option ID : -459**
Correct Answer :- 1-ii, 2-iii, 3-i, 4-iv **Option ID :- 460**

Section : Technical, Q116

Question ID:- 116

In .Net framework, the MVC view extension is presented by _____.

Options:-

Xhtml

✓ ,

Option ID :- 461,

Vbhtml

✓ ,

Option ID :- 462,

CShtml

✓ ,

Option ID :- 463,

CSShtml

✓ ,

Option ID :- 464,

Answer Given by Candidate:- CSShtml , **Option ID : -464**

Correct Answer :- Vbhtml **Option ID :- 462**

Section : Technical, Q117

Question ID:- 117

Which language is used by the Serverside to fetch the input entered by the user on forms?

Options:-

html

✓ ,

Option ID :- 465,

PHP

✓ ,

Option ID :- 466,

Java Script

✓ ,

Option ID :- 467,

AJAX

✓ ,

Option ID :- 468,

Answer Given by Candidate:- AJAX , **Option ID : -468**

Correct Answer :- **Option ID :- 466**

Section : Technical, Q118

Question ID:- 118

Read the statements which are describing client-server computing. Choose the correct option with true statements.

- I) In client-server computing, the client is responsible for processing and storing data.
- II) The client in client-server computing is typically a powerful machine capable of performing complex computations.
- III) Client-server computing is a distributed computing model where tasks are divided between the client and the server.
- IV) In client-server computing, the server is responsible for providing services, such as data storage and processing.
- V) The client and server in client-server computing communicate with each other using the same processing capabilities.
- VI) Scalability is a key advantage of client-server computing, allowing for the addition of more clients or servers as needed.

Options:-

III, IV and V

■ ,
Option ID :- 469,

I, II and IV

■ ,
Option ID :- 470,

III, IV and VI

■ ,
Option ID :- 471,

II, IV, V and VI

■ ,
Option ID :- 472,

Answer Given by Candidate:-

II, IV, V and VI

, **Option ID : -472**

Correct Answer :-

III, IV and VI

Option ID :- 471

Section : Technical, Q119

Question ID:- 119

Which term describes the architectural pattern that separates the presentation, data processing, and data storage components of a web application?

Options:-

MVC

,

Option ID :- 473,

CSS

,

Option ID :- 474,

HTML

,

Option ID :- 475,

XML

,

Option ID :- 476,

Answer Given by Candidate:- MVC , **Option ID : -473**

Correct Answer :- MVC **Option ID :- 473**

Section : Technical, Q120

Question ID:- 120

Match the following data and choose the correct option from those given below.

- | | |
|--------------|--|
| 1) Pearl | i) strong in meta-programming, which allows creating a fabulous product like Vagrant. |
| 2) VB Script | ii) supports procedure-oriented programming and object-oriented programming and has an extensive Standard Library. |
| 3) Ruby | iii) most often used in CGI scripting along with C for web servers. |
| 4) Python | iv) is a subset of Visual Basic. |

Options:-

1-ii, 2-i, 3-iv, 4-iii

,

Option ID :- 477,

1-iii, 2-i, 3-ii, 4-iv

,

Option ID :- 478,

1-iii, 2-iv, 3-i, 4-ii

,

Option ID :- 479,

1-i, 2-iii, 3-iv, 4-ii

,

Option ID :- 480,

Answer Given by Candidate:-

1-iii, 2-iv, 3-i, 4-ii

, Option ID : -479

Correct Answer :-

1-iii, 2-iv, 3-i, 4-ii

Option ID :- 479