

SSC PO

Memory Based Paper
30 Jan, 2023 Shift 1

155 Questions

Que. 1 **Direction:** Read the given information and answer the following questions.

There is a building in which total of ten rooms are present in which odd numbered floor has one room and even numbered floor have two rooms. Each room is given a different number and different alphabet based on the given conditions.

Arrangement 1: The number will be allotted to each room based on this output of dice.

(6,5), (1,1), (6,3), (3,5), (2,3), (4,3), (1,4), (3,4), (4,2), (1,2).

The operation will be carried out from left to right on this above output. For even numbered floor the digits in the output will be added and for odd numbered floor the digits in the output will be multiplied. First fill one room on each even numbered floor in decreasing order of the floor. Then fill the odd numbered floor in increasing order. The remaining will be filled in decreasing order of even numbered floor.

Arrangement 2: The alphabets will be allotted based on the given conditions.

E, V, I, F, A, H, R, M, T, P.

All the vowels will be placed with the odd prime numbers in decreasing order of the number and the increasing alphabet order of the vowels according to the English alphabet. Then the alphabets before the letter L according to English alphabet will be placed with the square numbers in increasing order of the number and increasing order of the letters according to the English alphabets. The remaining letters will be allotted in the increasing order of the remaining numbers and the increasing order of the remaining letters according to the English alphabet.

Arrangement 3: The letters are then placed in the linear seating arrangement in which all are facing the north direction.

The number of letters between I and A is equal to the number of persons between I and E. No vowel sits at the end of the line. The number of letters between I and E is a even prime number. Three persons sit between I and the one who lives in first floor. M sits to the immediate right of V. R sits fourth to the left of E. H sits at one of the end of the line. The one whose room is in 5th floor sits to the immediate right of the one who has an even square number.

What is the sum of the one who lives in floor 1 and the one who is to the immediate left of R?

1. 17
2. 18
3. 21
4. 20
5. 19

Correct Option - 3

Que. 2 Who sits to the immediate left of F in arrangement 3?

- I. One who has 3
- II. One who has 8
- III. One who lives with 9
- IV. One who lives in floor 2
- V. One who lives in floor 4

1. I, II, III
2. II, IV, V
3. I, III, IV
4. III, IV, V
5. I, IV, V

Correct Option - 3

Que. 3 What is the sum of numbers of the one who sits at both the ends of the line?

1. 24
2. 20
3. 16
4. 17
5. 11

Correct Option - 5

Que. 4 According to the arrangement 2, which among the following is true?

1. V - 6 - Floor 5
2. E - 8 - Floor 2
3. T- 12 - Floor 4
4. P - 6 - Floor 3
5. T- 2 - Floor 1

Correct Option - 4

Que. 5 **Direction:** In the following question, some symbols are used with the meaning given below. Below the information, coded statements are given followed by three conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements.

P @ Q means Only a few Q are P.

P # Q means All Q are P.

P \$ Q means No Q is P.

Statement:

K @ J # C \$ D; K # B

Conclusions:

I. All D is J is a possibility.

II. No J is K.

III. Some D is not K.

1. Only II and III follows
2. Only I and III follows
3. Only I follows

4. Only III follows
5. None follows

Correct Option - 3

Que. 6 **Direction:** Read the given information and answer the following questions:

Six persons- P, Q, R, S, T, and U in which three are married couples are sitting at the circular table facing the centre but not necessarily in the same order. They are of different ages. The couples are not sitting together. In couples, the husband's age is more than the wife's age. U sits second to the left of the one whose age is 34. U and the spouse of Q are sitting adjacent to each other. Q sits immediate right of the one who sits opposite to the person whose age is 45. Q does not sit adjacent to U. P sits immediate right of the one who is the husband of U. P is not the spouse of Q. S is the male who sits opposite to the one whose age is 25. The age of T is three years more than S's spouse. Neither S nor R is the spouse of Q. U's spouse age is five years more than the one who sits immediate right of T. The age difference between S and Q is one year less than the age difference between R and Q. The age of Q is less than the age of P's spouse.

Who sits to the immediate left of U's spouse?

- I. One who is the spouse of T
- II. One who is 34 years old
- III. One who is second to the right of U
- IV. One who is to the immediate left of R
- IV. One who is opposite to T

1. I, II, III, IV
2. I, II, III, V
3. I, II, IV, V
4. I, II, III, V
5. II, III, IV, V

Correct Option - 4

Que. 7 How many persons are seated between Q's spouse and S's spouse when counted to the right of Q's spouse?

1. None
2. One
3. Two
4. Three
5. Four

Correct Option - 1

Que. 8 What is the sum of the age of S, T, and R?

1. 92
2. 97
3. 96

4. 82
5. 86

Correct Option - 2

Que. 9 Which among the following is true?

1. The one who is 39 years old is the spouse of T
2. The one whose age is 25 is to the immediate right of R
3. The one whose age is 39 is the spouse of U
4. The one who sits second to the right of T's spouse is 45 years old
5. The one who sits immediate left of Q is a male

Correct Option - 4

Que. 10 **Directions:** Study the following information carefully and answer the questions given below:

When a number arrangement machine is given an input line of numbers, it arranges them following a particular rule. The following is an illustration of input and rearrangement:

Input: 67543 49652 86235 27549 59246 38673

Step I: 42412 36510 48115 14436 45124 24521

Step II: 14422 53160 51184 31644 51442 51422

Step III: 112 150 154 155 133 101

Step IV: 16112 36150 100154 121155 49133 4101

And Step IV is the last step of the above arrangement as the intended arrangement is obtained.

As per the rules followed in the given steps, find out the appropriate steps for the given input:

Input: 45483 45192 35654 79583 43235 55672

How many five digit numbers are there in Step IV?

1. 1
2. 2
3. 3
4. 4
5. More than four

Correct Option - 4

Que. 11 What is the sum of the largest digit of the first number and the smallest digit of the last number in Step II?

1. 4
2. 1
3. 5
4. 6
5. 9

Correct Option - 3

Que. 12 If the digits of the number which is third from the left in Step I are arranged in ascending order then which digit is third from the right?

1. 5
2. 1
3. 2
4. 0
5. 4

Correct Option - 3

Que. 13 What is the difference between the second highest number and the second smallest number of second last step?

1. 58
2. 116
3. 5
4. 121
5. 25

Correct Option - 1

Que. 14 **Directions:** Study the following information carefully and answer the questions given below:

In a hexagon arrangement, at each corner, a triangle is placed which is denoted by either two letters or two numbers. Below are given some of the conditions:

- I. If the number is a perfect square then only that number is increased by 1.
- II. If there is at least one vowel then change it to the preceding alphabet.
- III. If both digits are odd then reduce those digits by 2.
- IV. If any one of the consonants is smaller than N in alphabetical order then change it to the next alphabet.

Note: If no condition is applied then there will be no change.

Apply the above-given conditions to find the output. More than one condition can be applicable.

For example:

Input		Output
Triangle 1	1, 4	2, 5
Triangle 2	o, k	n, l
Triangle 3	6, 7	6, 7
Triangle 4	i, l	h, m
Triangle 5	s, v	s, v
Triangle 6	5, 5	3, 3

Input	
Triangle 1	c, d

Triangle 2	u, b
Triangle 3	7, 7
Triangle 4	h, f
Triangle 5	w, q
Triangle 6	8, 3

What is the sum of the second number of output of triangle 3 and the first number of output triangle 6?

1. 13
2. 9
3. 15
4. 7
5. 11

Correct Option - 1

Que. 15 What is the output of triangle 1?

1. b, e
2. d, a
3. b, a
4. d, e
5. c, d

Correct Option - 4

Que. 16 How many letters are the between the second letter of the output of triangle 2 and the first letter of the output of triangle 5?

1. 11
2. 13
3. 21
4. 19
5. 17

Correct Option - 4

Que. 17 What is the difference between the product of numbers of the output of triangle 3 and product of numbers of the output of triangle 6?

1. 25
2. 1
3. 49
4. 4
5. 3

Correct Option - 2

Que. 18 **Directions:** Study the following information carefully and answer the questions given below:

Six persons U, T, S, R, Q, and P are standing in a linear row in the same order from left to right. Three of them are facing south. The consecutive distance between any two persons is 8 m. U travels 16m in a certain direction then turns right and travels 34m to reach its final position. Q travels 12 m in a certain direction then turns right and travels 10m meters to reach its final position. S travels 8 m south and then turns left and walks a few meters to reach its final position which is in the north of the final position of Q. R walks 12m in a certain direction and then turns right and walks 10m to reach its final position which is south of final position of U. The final position of P cannot be northeast of final position of Q. T travels 6m in a certain direction and then turns right and travels 6m to reach its final position. P travels 16m in a certain direction then turns right and travels 21 m to reach its final position.

What is the direction of the final position of U with respect to the final position of P?

1. Northeast
2. Northwest
3. North
4. South
5. Southeast

Correct Option - 2

Que. 19 Who travels the most among all the six persons?

1. P
2. Either Q or S
3. U
4. Either T or P
5. R

Correct Option - 3

Que. 20 What is the shortest distance T needs to travel further in order to reach the initial position of S?

1. $\sqrt{45}$ m
2. $\sqrt{80}$ m
3. $\sqrt{35}$ m
4. $\sqrt{40}$ m
5. $\sqrt{70}$ m

Correct Option - 4

Que. 21 Find the odd one out:

1. Final position of T with respect to initial position of U.
2. Final position of S with respect to initial position of Q.

3. Final position of Q with respect to initial position of P.
4. Final position of P with respect to initial position of R.
5. Final position of S with respect to initial position of U.

Correct Option - 1

Que. 22 **Directions:** Study the following information carefully and answer the questions given below:

$X ! Y$ means X is the father-in-law of Y.

$X @ Y$ means X is the brother-in-law of Y.

$X \# Y$ means X is the mother of Y.

$X \$ Y$ means X is the father of Y.

$X \% Y$ means X is the son of Y.

$X \wedge Y$ means X and Y are married couples.

$X \& Y$ means X is the mother-in-law of Y.

$X * Y$ means X is the grandmother of Y.

$X \sim Y$ means X is the daughter of Y.

$X + Y$ means X is the sister-in-law of Y.

$X = Y$ means X is the brother of Y.

Expression:- $D \wedge B \$ E; B \% K * L; E \wedge G + L; B \% M$

If $K \# A \wedge F @ B; O \$ F \$ C \% A$, then how is A's husband related to B?

1. Brother
2. Sister
3. Brother-in-law
4. Sister-in-law
5. Can't be determined

Correct Option - 3

Que. 23 $D \sim H ! B$ then how is H related to E?

1. Grandson
2. Grandfather
3. Grandmother
4. Granddaughter
5. Cannot be determined

Correct Option - 2

Que. 24 If N is the nephew of P then what will come in the blanks respectively?

$L = P \underline{\quad} G \# N \underline{\quad} E$

1. +, %
2. @, %

3. +, =
4. @, =
5. Either 1 or 2

Correct Option - 5

Que. 25 **Directions:** Read the given instructions and answer the following questions:

Four boxes A, B, C and D are placed one above the other. One box is placed between A and C. A is adjacent to D.

If P is added to this stack, above C below A and Q is placed just above D. All boxes contain different number of pencils in consecutive multiple of 6 from bottom to top. A contains 30 pencils. B is not placed at the top.

Which box is placed at the top?

1. A
2. P
3. B
4. Q
5. D

Correct Option - 4

Que. 26 What is the sum of pencils in box A and box P?

1. 54
2. 48
3. 66
4. 42
5. 72

Correct Option - 1

Que. 27 Eight friends A, B, C, D, E, F, G and H are sitting in a circular table facing center each having different hobby viz. Painting, Boxing, Singing, Badminton, Drawing, Singing, Cricket and Football then, what is the hobby of the person who sit second to right of the one having Cricket as hobby?

I. F sits third to right of E, who likes Singing. B having Boxing as hobby sits second to right of C, who sits third to right of D. G sits third to right of one like Dancing, who sits second to right of A. The one who likes singing sits second to left of the one like Drawing. D sits immediate left of F. The one who likes Football sit in-front of the one who likes Badminton, who sits third to left of E. A sit third to left of B.

II. The one likes Boxing sits immediate right of H. B sits third to left of D, who sits second to right of the one who likes Singing. The one who likes Football sit third to left of A. F sits second to left of C, who sits second to left of the one who likes Boxing. A sits third to left B, who like Boxing. E likes Singing and sits third to left of the one who likes Cricket.

1. If the data in Statement I alone is sufficient to answer the question, while the data in Statement II alone is not sufficient to answer the question.
2. If the data in Statement II alone is sufficient to answer the question, while the data in Statement I alone is not sufficient to answer the question

3. If the data either in Statement I alone or in Statement II alone is sufficient to answer the question
4. If the data in both the Statements I and II together are not sufficient to answer the question.
5. If the data in both the Statements I and II together are necessary to answer the question

Correct Option - 5

Que. 28 **Direction:** The following question consists of three statements numbered I, II and III. Decide if data given in the statements are sufficient to answer the question below.

Six persons B1, B2, B3, B4, B5 and B6 go on a trip on two different dates 8 and 19 of three different months- April, May and June but not necessarily in the same order. No two persons appear on the same date. Who went on the trip on 8th June?

- I. B4 goes on a trip in a month having 31 days. B6 goes immediately after B3 and in the same month.
- II. B1 goes after B5 and in a month having less than 31 days.
- III. B4 goes on an odd number date. Two persons go between B6 and B2. B2 goes after B6.

1. Only statement I alone is sufficient to find the answer
2. Only statement I and II are sufficient to find the answer
3. Only statement II and III are sufficient to find the answer
4. Only statement I and III are sufficient to find the answer
5. All three statements I, II and III are sufficient to find the answer

Correct Option - 4

Que. 29 **Direction:** Study the information given carefully and answer the question given below.

Eight people T, K, P, C, H, O, P, and S sit in two parallel rows facing each other. The persons are sitting in row I facing towards the south and the persons sitting in row II facing towards the north. What is the position of H from the left end?

- I) One person sits between T and P. T sits on one of the ends and does not face north. H sits opposite to P. C is an immediate neighbour of H.
- II) K and P both are immediate neighbours of each other both facing south. None of them sits at the corner. K sits opposite to C. H sits immediate right of C.

1. The data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient in answer the question
2. The data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question
3. The data in either in statement I alone or in statement II alone are sufficient to answer the question
4. The data in both the statements I and II together are not sufficient to answer the question
5. The data in both the statements I and II are together necessary to answer the question

Correct Option - 5

Que. 30 **Directions:** Study the following information carefully and answer the questions given below:

In a building, there is a certain number of floors with each floor having two flats i.e. flat P and flat Q. Flat P is in the west of flat Q. Immediately above or below means both persons live in the same flat.

C lives on an even-numbered floor below the 5th floor in flat P. D lives at a gap of two floors from C and E lives immediately below D's flat. No one lives to the east of E. No one lives to the east of K. There are three

floors between G and H and both lives in the same flat. The number of floors above C is the same as the number of floors below H. One floor is between D and F. D does not live on the 5th floor and F does not live on the floor which is a multiple of 3. G lives immediately above F. J lives on an even-numbered floor above the 10th floor. K lives immediately above J.

How many total number of flats are there in the building?

1. 13
2. 17
3. 10
4. 22
5. 26

Correct Option - 5

Que. 31 G lives on _____ floor in flat _____.

1. 6th, Q
2. 7th, P
3. 6th, P
4. 5th, Q
5. 8th, P

Correct Option - 3

Que. 32 How many floors are there between C and K?

1. 9
2. 8
3. 7
4. 6
5. 10

Correct Option - 2

Que. 33 Find the odd one out:

1. K
2. J
3. H
4. E
5. C

Correct Option - 1

Que. 34 **Directions:** In the question given below, a passage is given followed by three statements that may or may not be concluded from the passage. Select the correct combination of statements that can be

concluded.

Improving education is a slow, arduous, long-term undertaking everywhere, and nowhere more so than in Africa, where tight economic constraints often prevent sustained investment in human capital. Too often, though, expedient approaches prove shortsighted and fail to engage local leaders who hold the keys to economic and social progress. Too often, grassroots-level voices, reflecting firsthand experience addressing their communities' problems, are ignored. When global leaders gather in Hamburg this week for the G20 summit, the new G20-Africa Partnership will take center stage. But those committed to helping Africa should focus squarely on the nuts and bolts of aid and development and that means investing in local leadership.

I. Engaging local leaders is essential to improve education in Africa.

II. Economic constraints have hampered the growth of the education sector in Africa.

III. Local leadership does not affect education.

1. Only I
2. Only II
3. Only III
4. Only I and II
5. Only II and III

Correct Option - 4

Que. 35 **Directions:** In the question given below, a passage is given followed by three statements that may or may not be inferred from the passage. Select the correct statements that can be inferred.

A study using Office of National Statistics data has ranked 20 of the most popular courses according to the level of salary graduates are likely to be on five years after leaving university. Unsurprisingly, medicine and dentistry are at the top of the list when it comes to earning potential with graduates earning some £47,300 per annum. But some unexpected entries lower down on the list include law - which could see graduates taking home a relatively modest £25,200, only marginally more than those who have teaching degrees. The current average UK salary is £27,600 per year.

I. Students opting for medicine and dentistry can be expected to earn more than the current average salary.

II. The average salary of teachers in UK is less than the current average salary in UK.

III. Only doctors and dentists earn more than the current average salary in UK.

1. Only I
2. Only II
3. Only I and II
4. Only II and III
5. All I, II and III

Correct Option - 3

Que. 36 **Directions :** Study the following information carefully and answer the below questions

Statement: Some banks have begun charging a minimum amount of 150 per transaction for cash deposits and withdrawals beyond free four transactions in a month. The new charges will be applied to all savings as well as salary accounts. The banks have also restricted cash transactions at Rs 25,000 per day deposited by the third party in one account. Daily transactions in terms of non-home branches up to Rs 25,000 are non-chargeable. Senior citizens and children will not be charged any amount.

Are the steps taken by the bank **justified**? Choose the appropriate option(s).

Arguments:

- I. Yes, the step taken by the banks will increase digital transactions in the country.
II. No, the people living below the poverty level in the country will face a lot of difficulties in meeting their daily needs.
III. Yes, the step taken by the bank will help wipe out black money from the country.
IV. No, all the customer of private banks will transfer their account to some other banks which do not levy any charges on cash transactions.

1. Only I and III are strong
2. All are strong
3. Only I and II are strong
4. Only II and IV are strong
5. None of these

Correct Option - 1

Que. 37 **Directions:** Study the following information carefully and answer the questions given below:

Six persons G to L went to attend an essay writing session in the same week from Monday to Saturday, not necessarily in the same order. Each person writes a different number of letters for the essay in these sessions. Two persons attend between I and the one who writes 430 letters. The one who writes the most number of letters attends the session after Wednesday but before Saturday. More than three persons attend between G and J. The one who attends two days before J does not write the most number of letters. G writes 60 letters less than K. K writes 110 letters more than J. The one who writes the least number of letters goes immediately after G. As many persons attend before H as after K. K attends before L. The difference in the number of letters of L and J is equal to the number of letters of K. K and I do not attend consecutively. J is not the first to attend the session.

What is the total number of letters written by I and G if the least number of letters written is the number which is smallest three-digit perfect square?

1. 430
2. 310
3. 331
4. 530
5. 590

Correct Option - 2

Que. 38 Who attends the session just before J?

1. G
2. H
3. I
4. K
5. L

Correct Option - 5

Que. 39 What is the difference between the number of letters written by H and I?

1. 270
2. 50
3. 220
4. 140
5. Cannot be determined

Correct Option - 5

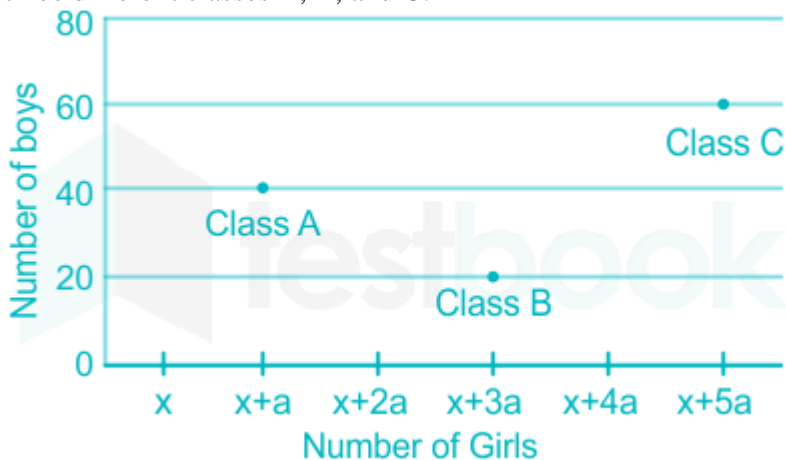
Que. 40 If H writes the second most number of letters then who writes the fourth highest number of letters?

1. J
2. K
3. I
4. G
5. L

Correct Option - 4

Que. 41 **Directions:** Answer the questions based on the information given below.

The scatter graph given below shows the number of girls (X-axis) and the number of boys (Y-axis) in three different classes A, B, and C.



Note: If there were 10 more girls in class 'C', then the probability of selecting a girl from class 'C' would have been 40%.

Find the difference between the total number of students in class 'A' and in class 'B' if the number of boys in class 'A' is 4 times the number of girls in the same class?

1. 10
2. 20
3. 30
4. 40
5. 50

Correct Option - 1

Que. 42

If the number of girls in class 'D' is 20% more than that in class 'B' and the number of boys in class 'D' is equal to that in class 'A' then find the probability of selecting 2 boys from class 'D' if it is given that the total number of students in class 'A' is 50.

1. $220/477$
2. $230/477$
3. $240/477$
4. $250/477$
5. $65/168$

Correct Option - 5

Que. 43 Find the average of the total number of students in all three class together if it is given that the total number of students in class 'B' is 40?

1. 30
2. 36
3. 45
4. 54
5. 60

Correct Option - 5

Que. 44 **Directions: Answer the questions based on the information given below.**

Seller 'A' and seller 'B' sold a certain number of 'wooden' and 'plastic' toys. The selling price of each 'wooden' toy that is sold by seller 'A' is equal to the selling price of each 'wooden' toy that is sold by seller 'B'. The selling price of each 'plastic' toy that is sold by seller 'A' is equal to the selling price of each 'plastic' toy that is sold by seller 'B'. The total unit sale of 'plastic' toys to 'wooden' toys by seller 'A' is in the ratio of 3 : 8 respectively. The ratio of the total number of 'wooden' toys sold by seller 'A' to that by seller 'B' is in the ratio of 2 : 3 respectively. The total number of toys sold by seller 'B' is 100. The number of 'plastic' toys sold by seller 'B' is equal to the number of 'wooden' toys sold by seller 'A'. The selling price of each 'wooden' toy is double the selling price of each 'plastic' toy and it is applicable for both the given sellers.

Find the difference between the total number of toys sold by seller 'A' to that by seller 'B'?

1. 15
2. 25
3. 35
4. 45
5. 55

Correct Option - 4

Que. 45 The number of 'plastic' toys sold by seller 'B' is what percent more/less than the number of 'wooden' toys sold by seller 'A'?

1. 10%
2. 20%

3. 25%
4. 40%
5. None of these

Correct Option - 5

Que. 46 If the selling price of each 'plastic toy that is sold by seller 'A' is 130 Rs., then find the total revenue generated by seller 'A' from selling all the 'wooden' toys together?

1. 10200 Rs.
2. 10300 Rs.
3. 10400 Rs.
4. 10500 Rs.
5. 10600 Rs.

Correct Option - 3

Que. 47 Average monthly expenditure of 'P' and 'R' together is Rs. 6932. Monthly expenditure of 'P' is 40% more than his monthly saving. Monthly income of 'Q' is 4.166% more than that of 'P' while 'Q' saves 68% of his monthly income. If the monthly saving of 'R' is 15% more than that of 'Q' and the ratio of the monthly expenditure to monthly saving of 'R' is 3 : 2 respectively then find the annual expenditure of 'R'?

1. Rs. 1, 08, 612
2. Rs. 1,09, 944
3. Rs. 1,11, 276
4. Rs. 1,12, 608
5. Rs. 1,13, 544

Correct Option - 4

Que. 48 Boat 'P' and Boat 'Q' are travelling in two different rivers called 'A' and 'B' respectively. Downstream speeds of boat 'P' and boat 'Q' are in the ratio of 6 : 5 respectively. The upstream speed of boat 'P' is 8 km/hr less than the downstream speed of boat 'Q'. If boat 'P' can cover 160 km in upstream in 5 hours and it is given that river 'B' flows 2 km/hr faster than river 'A' then find the time taken by boat 'Q' to cover the same distance in upstream?

1. 4 hours
2. 6 hours
3. 8 hours
4. 10 hours
5. 12 hours

Correct Option - 3

Que. 49 **Directions: Answer the questions based on the information given below.**

Equation (i) : $x^2 - 7x + t = 0$

Equation (ii) : $y^2 - 4y + (t - 9) = 0$

Roots of equation (i) are 'p' and 'q' and the roots of equation (ii) 'p' and '(q - p)' respectively.

Had equation (ii) been multiplied with 2^n and 1 been added to the smallest root of the resulting quadratic equation then find the resultant number obtained from this process?

1. 1
2. 2
3. 3
4. 4
5. 5

Correct Option - 2

Que. 50 Find the value of $(t - 8)^9$?

1. 36
2. 81
3. 125
4. 256
5. 343

Correct Option - 4

Que. 51 **Directions: Answer the questions based on the information given below.**

A right circular cylindrical vessel is filled with a mixture of milk and water. The quantity of milk to that of water in the mixture is in the ratio of 5 : 3 respectively. x ml of the total given mixture is sold and replaced with x ml of pure milk. The ratio between the resultant quantity of milk to that of water in the resultant mixture is in the ratio of 75 : 13 respectively. The quantity of mixture which is sold earlier was 104 ml less than the original quantity of the given mixture in the vessel.

If $0.25x$ ml of the initial mixture is sold and $0.75x$ ml pure milk and $0.05x$ ml water is added to the vessel then find the final total quantity of the resultant mixture in the given vessel?

1. 332 ml
2. 342 ml
3. 352 ml
4. 362 ml
5. 372 ml

Correct Option - 3

Que. 52 If the radius and the height of the given vessel are 3.5 cm and 10 cm respectively then what portion of the vessel would have empty at the end of the given process?

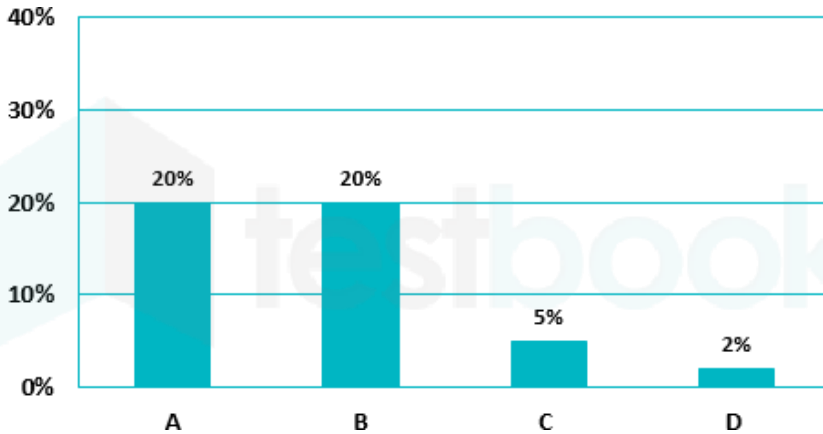
1. 99 ml
2. 110 ml
3. 121 ml

4. 132 ml
5. 143 ml

Correct Option - 3

Que. 53 Directions: Answer the questions based on the information given below.

Mr. X had a total stock value of Rs.24000. The bar graph given below shows the percentage of the stocks sold by him to five different persons.



The table given shows the percentage increase in the price of stocks in two respective years and the overall percentage increase in the price of stocks for the same respective two years. With the increased price of stocks Mr. 'X' earned some return amount from each of the person.

Person	Percentage increase in 1st year	Percentage increase in 2nd year	Overall Percentage increase in two years
A	---	---	44%
B	10	---	21%
C	---	---	56.25%
D	---	---	32.25%
E	---	---	69%

If the rate of increment for both years is equal for person 'A' and person 'C' then find the difference between the returned amount from both persons if it is calculated just after the first year?

1. 40600 Rs.
2. 41600 Rs.
3. 42600 Rs.
4. 43600 Rs.
5. 44600 Rs.

Correct Option - 3

Que. 54 If the returned amount earned by Mr. 'X' from person 'B' is again used by him for purchasing 8 shares of equal price, then find the value of each share?

1. 7160 Rs.
2. 7260 Rs.

3. 7360 Rs.
4. 7460 Rs.
5. 7560 Rs.

Correct Option - 2

Que. 55 If the returned amount earned by Mr. 'X' from person 'E' is invested in a SI scheme at the rate of 10% for 3 years then find the amount earned by Mr. 'X' from the scheme?

1. 219458.4 Rs.
2. 239458.4 Rs.
3. 259458.4 Rs.
4. 279458.4 Rs.
5. 299458.4 Rs.

Correct Option - 4

Que. 56 Directions: Answer the questions based on the information given below.

Series X : 66, 148, 270, 440, 666, 956

Series Y : 138, 148, 174, 224, 346, 516

Series Z : 316, 541, 830, 1191, 1632, 2161

Subsequent terms in all the given series should follow the given pattern: 1 more than the square of a consecutive odd number.

Which of the following series does not follow this pattern?

1. Only X
2. Only Y
3. Only Z
4. Both X and Y
5. Both Y and Z

Correct Option - 5

Que. 57 Directions: Answer the questions based on the information given below.

Equation (i) : $ax^2 + bx + c = 0$

Equation (ii) : $py^2 + qy + c = 0$

'c' is a single-digit prime number greater than 2. 'p' and 'b' are 2-digit prime numbers less than 20. 'p' is greater than 11 and 'b' is greater than 'p'. The smallest roots of both the equations are same and none of the roots for any given equation is irrational. '3c' is greater than 'b' and $q = b + 1$

Find the value of a?

1. 9
2. 10
3. 11

4. 12
5. 13

Correct Option - 4

Que. 58 Find the value of $p \times q$?

1. 247
2. 260
3. 323
4. 340
5. 380

Correct Option - 2

Que. 59 The area of a circle is 616 cm^2 . The length of the rectangle (l) is twice the radius (r) of the circle. The perimeter of the rectangle is 10 cm more than the circumference of the circle. 'b' is the breadth of the rectangle.

Equation (i) $ax^2 - 42x + (r + 1) = 0$

Equation (ii) $zy^2 - 35y + (b + r) = 0$

If the bigger roots of equation (i) and equation (ii) are 14 and 7 respectively and if both the given equations have one common root then find the value of $(a^2 + z^2 - 2az)$?

1. $3/4$
2. $5/4$
3. $7/4$
4. $9/4$
5. $11/4$

Correct Option - 4

Que. 60 The question consists of two statements numbered "I" and "II" given below it. You have to decide whether the data provided in the statements are sufficient to answer the question or not and choose the correct option accordingly.

Equation (i) : ${}^n\sqrt{(q^n)} \times (p + 1) = 27$

'p' is the largest even prime number.

Equation (ii) : $(q + m - n)^2 = 64$

Find the sum of q, m, and n

(I) : $(x - 1)$ and $(x + 1)$ are factors of the equation $mx^3 + nx^2 - 2x - 3 = 0$

(II) : $q = n + 6$ and $2m + q = 13$

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

3. The data either in statement I alone or in statement II alone are sufficient to answer the question.
4. The data in both statements I and II together are necessary to answer the question.
5. The data given in both statements I and II together are not sufficient to answer the question.

Correct Option - 3

Que. 61 Directions: Answer the questions based on the information given below.

Given below there are two rows, in the first row some numbers are given and in the second row the probability of picking that number is given when all numbers are considered as one series.

Number	4	a	b	2b - 1	3(b + 1)	38.5
Probability	1/3	1/6	1/3	1/6	1/6	1/6

Consider a wrong number series : 1, 9, 19, 32, 49, 72, 99

If wrong number of this series is replaced by correct term then find the value of it in terms of a?

1. $a^4 - 6$
2. $a^4 - 7$
3. $a^4 - 8$
4. $a^4 - 9$
5. $a^4 - 10$

Correct Option - 5

Que. 62 Consider an another wrong number series : 12, 17, 27, 44, 70, 120, 157

If wrong number of this series is represented by 'x' find the value of $b \times x$?

1. 108
2. 176
3. 280
4. 480
5. 628

Correct Option - 4

Que. 63 If $c = 3b + 1$ then find the value of c?

1. 9
2. 13
3. 17
4. 21
5. 25

Correct Option - 2

Que. 64 If the series 4, a, b, $2b - 1$, $3(b + 1)$, 38.5 follow a certain pattern then find the value of a?

1. 3
2. 4
3. 5
4. 6
5. 7

Correct Option - 1

Que. 65 The question consists of two statements numbered “I” and “II” given below it. You have to decide whether the data provided in the statements are sufficient to answer the question or not and choose the correct option accordingly.

Yash invests Rs. X in scheme 'A' at the rate of R% compounded annually for t years then find the value of X?

(I) Kush invests $(X + 1000)$ Rs. for $(t + 2)$ years in the same scheme at the rate of R% compounded annually and gets 44% more amount than Yash.

(II) If Piyush invests the same amount as Yash for '2' years in the same scheme at the same rate of compound interest, then gets Rs. 3456 as the total amount.

1. The data in statement I alone is sufficient to answer, while the data in statement II alone is not sufficient to answer the question.
2. The data in statement II alone is sufficient to answer, while the data in statement I alone is not sufficient to answer the question.
3. The data either in statement I alone or in statement II alone are sufficient to answer the question.
4. The data in both statements I and II together are necessary to answer the question.
5. The data given in both statements I and II together are not sufficient to answer the question.

Correct Option - 4

Que. 66 The question consists of two statements numbered “I” and “II” given below it. You have to decide whether the data provided in the statements are sufficient to answer the question or not and choose the correct option accordingly.

The ratio of time taken by pipe 'A' and pipe 'B' to fill the same tank is in the ratio of 3 : 4 respectively. pipe 'A' takes t hours to fill the tank and pipe 'C' takes $(t + 4)$ hours to completely empty the same tank. If all the three pipes are opened together at 10 am then the tank gets filled at 5pm. For how many hours pipe C was opened during the process if it is known that pipe 'C' was closed in between the given duration of time.

(I) pipe 'A' and pipe C together can fill $(7/10)$ th of the tank in 28 hours.

(II) pipe 'A' and pipe 'B' together can fill $(7/8)$ th of the tank in 3 hours.

1. The data in statement I alone is sufficient to answer, while the data in statement II alone is not sufficient to answer the question.
2. The data in statement II alone is sufficient to answer, while the data in statement I alone is not sufficient to answer the question.
3. The data either in statement I alone or in statement II alone are sufficient to answer the question.
4. The data given in both statements I and II together are not sufficient to answer the question.
5. The data in both statements I and II together are necessary to answer the question.

Correct Option - 3

Que. 67 Directions: Answer the questions based on the information given below.

The table given below shows the total points achieved by a team for scoring a goal from different distances from the goal post. It also shows the total points achieved by any team and some additional information about the number of goals scored by the players who are playing for their respective teams.

Team	Points achieved from 6 ft distance	Points achieved from 3 ft distance	Points achieved from 1 ft distance	Total points achieved	Descriptions
A	8	4	2	32	Same (X) number of goal/goals scored by exactly two players while one player scored (X + 1) goals.
B	6	5	3	38	Two players scored equal number of goal/goal and one player scored minimum number of goal/goals.
C	9	6	2	28	Total number of goals scored by the team is less than 6.
D	8	5	3	26	Only one goal was scored for maximum pointer.

Note: (1) Minimum of 1 goal scored from each distance in each team.

(2) There are only three players in a team.

(3) Any particular player can score from only one position.

Find the total number of goals scored from 1 ft distance by all the given teams together?

1. 6
2. 7
3. 8
4. 9
5. 11

Correct Option - 4

Que. 68 Which of the following teams scored the same number of total goals?

1. A and C
2. B and C
3. C and D
4. A and B
5. B and D

Correct Option - 3

Que. 69 Find the difference between the number of goal/goals scored from 6 ft distance by team 'A' and the number of goal/goals scored from 3 ft distance by team 'C'?

1. 0
2. 1
3. 2
4. 3
5. 4

Correct Option - 2

Que. 70 If an another team 'E' scored 2 more goals from 3 ft distance than that by team 'B' and scored 1 more goal from 6 ft distance than that by team 'D', then find the total number of points achieved by team 'E', if team 'E' scored from these two positions only and the points achieved by team 'E' for scoring any goal from any distance is same as that of team 'C'?

1. 45
2. 48
3. 54
4. 60
5. 62

Correct Option - 3

Que. 71 India's first ETF was listed in which year?

1. 2000
2. 2001
3. 2002
4. 2003
5. 2004

Correct Option - 3

In ACABC Scheme, the first C stands for_____.

Que. 72

1. Center
2. Central
3. Clinic
4. Capital
5. Crop

Correct Option - 3

Que. 73 Which of the following divested a 4.5% stake in Paytm's parent One97 Communications through an open market transaction?

1. SoftBank
2. Ant Group
3. Axis Trustee Services
4. BH International Holdings
5. None of the Above

Correct Option - 1

Que. 74 Which of the following is the smallest minority community in India?

1. Jain
2. Buddha
3. Parsi
4. Sikh
5. Muslim

Correct Option - 3

Que. 75 Which of the following launched the first-ever private market for grapes in the country?

1. ITC Ltd
2. Amul
3. Sindhudurg Farmers Producer Co Ltd
4. Sahyadri Farmers Producer Co Ltd
5. None of the Above

Correct Option - 4

Que. 76 Who is the author of the book "The Paradise of Food"?

1. Sanjeev Kapoor
2. Khalid Jawed
3. Ruskin Bond
4. Gordon Ramsay

5. Henry McDonald

Correct Option - 2

Que. 77 Which of the following is planning to regulate Financial Influencers (Finfluencers) in India?

1. RBI
2. SEBI
3. NABARD
4. SIDBI
5. FSSAI

Correct Option - 2

Que. 78 Lafarge Cement was accused of paying millions of dollars to ISIS in order to keep its cement plant operating in Syria. Which of the following countries does it belong?

1. USA
2. UK
3. France
4. Germany
5. Russia

Correct Option - 3

Que. 79 Who chaired the 'Committee of Experts on Sustainable Finance', constituted by International Financial Services Centres Authority (IFSCA)?

1. CK Mishra
2. Bimal Jalan
3. Raja Chelliah
4. Shankar Acharya
5. Surjit Bhalla

Correct Option - 1

Que. 80 SEBI issued new issuer limit for Mutual Funds schemes. What is the new limit for debt securities issued by AAA-rated companies?

1. 10% of the net asset value
2. 12% of the net asset value
3. 15% of the net asset value
4. 18% of the net asset value
5. 20% of the net asset value

Correct Option - 1

Que. 81 Raftar Formula Racing Team unveiled its first electric racing car in November 2022. The team belong to which of the following institutions?

1. IIT-Mumbai
2. IIT-Gandhinagar
3. IIT-Delhi
4. IIT-Roorkee
5. IIT-Madras

Correct Option - 5

Que. 82 The Gross collection of Direct Taxes has registered a growth of _____% which stood at Rs 13,63,649 cr in the financial year 2022-23.

1. 23.70%
2. 24.30%
3. 25.90%
4. 27.50%
5. 30%

Correct Option - 3

Que. 83 "Hallmark" is used as a logo for which one of the following?

1. Agricultural products
2. Electronic goods
3. Electrical goods
4. Jewellery
5. FMCG Goods

Correct Option - 4

Que. 84 What is the full form of GPT in recently launched chatbot ChatGPT?

1. Generative Post-trained Transformer
2. Generative Pre-trained Transponder
3. Generative Pre-trained Transformer
4. General Pre-trained Transformer
5. General Pre-trained Transponder

Correct Option - 3

Que. 85 Which of the following acquired the licence from Green Gold Licensing & Merchandising India Pvt. Ltd. to manufacture and distribute action figures of Chhota Bheem?

1. Funskool
2. PILOT

3. Jazwares
4. Comicave Studios
5. Joovy

Correct Option - 1

Que. 86 Who has been re-elected as President of the International Solar Alliance (ISA) in October 2022?

1. R K Singh
2. Narendra Modi
3. Amit Shah
4. Kiren Rijiju
5. Amitabh Kant

Correct Option - 1

Que. 87 Who addressed the 21st World Congress of Accountants in Mumbai on November 20, 2022?

1. Nitin Gadkari
2. Ashwini Vaishnaw
3. Smriti Irani
4. Piyush Goyal
5. Narendra Modi

Correct Option - 4

Que. 88 In its efforts to adopt advanced powering technology to decarbonize power generation in India, _____ and GE Gas Power signed a Memorandum of Understanding (MoU) for feasibility to demonstrate of hydrogen co-firing blended with natural gas.

1. JSW Energy
2. NTPC Ltd
3. Reliance Power
4. NHPC Ltd
5. Power Grid Corporation of India

Correct Option - 2

Que. 89 Number of Small Finance Bank in India _____.

1. 11
2. 12
3. 13
4. 10
5. 9

Correct Option - 2

Que. 90 Ministry of Power has launched a scheme for procurement of aggregate power of 4500 MW for five years under _____ Policy.

1. UJJWALA
2. SHAKTI
3. PRAGATI
4. IPDS
5. SAUBHAGYA

Correct Option - 2

Que. 91 On 30 Dec 2022, RBI launched the 2nd phase of the RBI's medium-term strategy for strengthening regulatory and supervisory mechanisms called Utkarsh 2.0. The 1st strategy framework was launched in which year?

1. 2017
2. 2018
3. 2019
4. 2020
5. 2021

Correct Option - 3

Que. 92 As per the 47th meeting of GST Council, e-commerce suppliers will not have to obtain GST registration if their turnover is lower than _____ for goods and services, respectively.

1. Rs 10 lakh and Rs 20 lakh
2. Rs 10 lakh and Rs 25 lakh
3. Rs 20 lakh and Rs 40 lakh
4. Rs 40 lakh and Rs 20 lakh
5. Rs 40 lakh and Rs 80 lakh

Correct Option - 4

Que. 93 In November 2022, the SEBI increased the investment limit of mutual funds (MFs) in debt instruments issued by a single issuer to _____ of the Net Asset Value (NAV) from 10%.

1. 15%
2. 12%
3. 14%
4. 11%
5. 13%

Correct Option - 2

Que. 94 Which pair has become the first Indian mixed doubles pair to enter the top five of the ITTF Table Tennis World Rankings in November 2022?

1. Manika Batra and Gnanasekaran Sathiyan
2. Sharath Kamal and Neha Aggarwal
3. Mouma Das and Gnanasekaran Sathiyan
4. Sharath Kamal and Manika Batra
5. Gnanasekaran Sathiyan and Neha Aggarwal

Correct Option - 1

Que. 95 The inaugural ceremony of the B20 inception meeting will be held in which of the following cities?

1. New Delhi
2. Mumbai
3. Hyderabad
4. Kolkata
5. Gandhinagar

Correct Option - 5

Que. 96 When the RBI placed in the public domain a draft scheme of reconstruction for Yes Bank. Which bank expressed its willingness to make an investment in Yes Bank and participate in its reconstruction scheme?

1. Axis Bank
2. Allahabad Bank
3. SBI
4. Punjab National Bank
5. Bank of Baroda

Correct Option - 3

Que. 97 Who among the following recently became the first Indian woman to reach the semifinals of the Asian Cup Table Tennis tournament, in Bangkok?

1. Sreeja Akula
2. Manika Batra
3. Ankita Das
4. Neha Aggarwal
5. Naina Jaiswal

Correct Option - 2

Que. 98 The Union Budget 2022-23, proposed to introduce the "Digital Rupee" using blockchain and other technologies. "Central Bank Digital Currency" is introduced for "Digital Rupee". Who is the regulator

of "Central Bank Digital Currency"?

1. SBI
2. RBI
3. SEBI
4. ECGC
5. NABARD

Correct Option - 2

Que. 99 Noted economist and former Union minister _____ passed away recently, after a prolonged illness.

1. Abhijit Sen
2. Yoginder K Alagh
3. Kaushik Basu
4. Amitava Bose
5. Ram Upendra Das

Correct Option - 2

Que. 100 Which of the following Table Tennis players has won Gold Medal in Men's Singles Table Tennis at Birmingham CWG 2022?

1. Harmeet Desai
2. G. Sathiyam
3. Sanil Shetty
4. Sharath Kamal
5. Subhajit Saha

Correct Option - 4

Que. 101 The government of India reopens the application window for Production-Linked Incentive (PLI) Scheme for White Goods (ACs and LED Lights) from 10th March to 25th April 2022 to give second chance to prospective investors to take benefits of the Scheme. How many sectors are there in Production-Linked Incentive (PLI) Scheme?

1. 14 Sectors
2. 15 Sectors
3. 13 Sectors
4. 16 Sectors
5. 18 Sectors

Correct Option - 1

Que. 102 Which of the following Kalvari class submarines will be commissioned on 23 January 2023?

1. INS Vagir
2. INS Vela
3. INS Vagsheer
4. INS Khanderi
5. None of these

Correct Option - 1

Que. 103 The Consumer Confidence Survey is conducted by which among the following institutions in India?

1. Department of Consumer Affairs
2. Reserve Bank of India
3. Competition Commission of India
4. NITI Aayog
5. NHB

Correct Option - 2

Que. 104 The Reserve Bank of India recently released a list of six domestic credit rating agencies that banks are advised to use for risk weighting their claims about capital adequacy. Which of the following is NOT one among the aforementioned six agencies?

1. India Ratings and Research Private Limited
2. Acuite Ratings & Research Limited
3. CRISIL Ratings Limited
4. Indian Enterprises Rating Agency of India
5. Credit Analysis and Research Limited

Correct Option - 4

Que. 105 Which organisations/Banks/Companies has set up a 5 year plan with the support of Financial Inclusion Advisory Committee to formulate National Strategy for Financial Inclusion?

1. SEBI
2. SBI
3. IRDAI
4. LIC
5. RBI

Correct Option - 5

Que. 106 Agri clinics and agribusiness come under _____

1. NABARD
2. State government
3. APEDA

4. FCI
5. RBI

Correct Option - 1

Que. 107 Lead Bank Scheme was launched in which year?

1. 1969
2. 1979
3. 1965
4. 1975
5. 1989

Correct Option - 1

Que. 108 Which of the following is not a Credit Rating Agency (CRA)?

1. ICRA Ltd.
2. CRISIL
3. Ind-Ra
4. SMERA
5. SIDBI

Correct Option - 5

Que. 109 In respect of infrastructure bonds issued under provisions of Section 80 CCF of the Income Tax Act what is the maximum amount (in thousands) up which these bonds can be covered ?

1. 30
2. 20
3. 40
4. 50
5. 60

Correct Option - 2

Que. 110 State Bank of India (SBI) recently raised Rs 9,700 crore through its second infrastructure bond issuance. This latest issuance is very significant considering this is the first time an Indian bank is issuing _____ long-term infrastructure bonds

1. 5-year
2. 15-year
3. 8-year
4. 12-year
5. 7-year

Correct Option - 2

Que. 111 The gross non-performing assets ratio (GNPA) of Scheduled Commercial Banks (SCBs) has decreased from 8.2% in March 2020 to a seven-year low of _____ in September 2022.

1. 7.7%
2. 6.2%
3. 5.0%
4. 4.8%
5. None of these

Correct Option - 3

Que. 112 Which of the following has become India's top oil supplier in October, surpassing traditional sellers Saudi Arabia and Iraq, according to data from energy cargo tracker Vortexa?

1. Russia
2. Ukraine
3. Iran
4. Nigeria
5. USA

Correct Option - 1

Que. 113 RBI has raised the cap on promoter's stake in private banks, to how much percent from the current 15 percent limit, of the paid-up voting equity share capital of the bank?

1. 20
2. 23
3. 26
4. 29
5. 25

Correct Option - 3

Que. 114 Ministry of Power kicked off a scheme for procurement of aggregate power of _____ MW on competitive basis for five years on Finance, Own and Operate basis under B (v) of SHAKTI Policy.

1. 1500
2. 2500
3. 3500
4. 4500
5. 5500

Correct Option - 4

Que. 115 Recently in June 2022, The Reserve Bank of India raised the Additional Factor of Authentication (AFA) limit from Rs. 5,000 to _____ per transaction for e-mandates on cards, Prepaid Payment

Instruments (PPIs) and UPI for recurring transactions.

1. Rs. 10,000
2. Rs. 25,000
3. Rs. 30,000
4. Rs. 15,000
5. None of these

Correct Option - 4

Que. 116 Consider the following statements regarding Government e-Marketplace.

1. GeM aims to enhance transparency, efficiency, and speed in public procurement.
2. GeM is a state-of-the-art national public procurement platform of the Ministry of Agriculture.
3. It is now mandatory for sellers to enter the Country of Origin while registering all new products on GeM.

Which of the statements given above is/are correct?

1. 1 and 2 only
2. 2 and 3 only
3. 1, 2 and 3
4. 1 and 3 only
5. 1 only

Correct Option - 4

Que. 117 The government recently has appointed a total of 15 judicial and technical members at the National Company Law Tribunal (NCLT), which is grappling with a shortage of judges. Where is the principal bench of the tribunal located?

1. Ahmedabad
2. Mumbai
3. Amaravati
4. New Delhi
5. Jaipur

Correct Option - 4

Que. 118 Which of the following statements regarding RuPay debit cards is/are correct?

1. The Cabinet recently cleared a Rs 2,500-crore incentive scheme for banks to promote RuPay debit cards and low-value BHIM-UPI transactions in the current fiscal.
2. Under the Incentive scheme for the promotion of RuPay Debit Cards and low-value BHIM-UPI transactions, the government pays banks an incentive as a percentage of the value of RuPay Debit card transactions and low-value BHIM-UPI transactions up to Rs 2,000.
3. Incentives paid by the government to banks for promoting RuPay debit cards and low-value BHIM-UPI transactions will not attract GST.

1. 1 and 2 only

2. 3 only
3. 2 and 3 only
4. 1 only
5. None

Correct Option - 3

Que. 119 Which year's regulation has been amended by Insolvency and Bankruptcy Board of India?

1. Insolvency and Bankruptcy Board of India Regulations, 1937
2. Insolvency and Bankruptcy Board of India Regulations, 2017
3. Insolvency and Bankruptcy Board of India Regulations, 2019
4. Insolvency and Bankruptcy Board of India Regulations, 1964
5. None of the above

Correct Option - 2

Que. 120 State Bank of India (SBI) is planning to raise up to Rs 10,000 crore via infrastructure bonds during the current quarter ending March 2023. Infrastructure bonds are long-term, fully paid, redeemable and unsecured financial instruments, with a minimum maturity period of _____ years.

1. five
2. three
3. one
4. two
5. seven

Correct Option - 5

Que. 121 Read the passage carefully to answer the given questions. Each question will have five alternatives as its answer, choose the correct option as your answer.

Artificial intelligence (AI) has become increasingly integrated into our daily lives. From personalized recommendations to automated customer service, AI has significantly impacted our lives. One of the latest AI technology-based platforms to disrupt the industry is ChatGPT, a Machine Learning (ML)-based system that can understand and respond to human queries.

Although ChatGPT is a promising technology in the education space, there's still a lot of R&D work to be done to integrate it into existing systems and ensure that it aligns with educational quality, policies, and standards. Furthermore, there are concerns about plagiarism, accuracy, the possibility of biases in algorithms, and security when using AI in the classroom. And even though ChatGPT can be useful for students, it's important to use it in moderation. Because, presently, ChatGPT is trained on a large amount of data, and it still depends on the accuracy of available data, which leads to limitations in its knowledge and understanding. This can lead to inaccurate or unreliable answers, especially on complex or nuanced subjects.

Additionally, a student's reliance on ChatGPT can stifle creativity and critical thinking skills. ChatGPT helps streamline routine tasks, but don't expect it to do all the heavy lifting in all areas in its present state. It might not be the best tool for the job if you're looking to dive deep into a topic or solve a complex problem. It presents a unique challenge to the current education system. The challenge for educators is to find a way to use ChatGPT without sacrificing teacher control, this is a complicated task, _____. For example, a teacher understands a student's strengths and lacunae. Accordingly, by teaching/discussing, the teacher navigates the student to understand the subject. Machines are yet to learn from this kind of human touch-based teaching.

One of the primary benefits of ChatGPT is that it can significantly increase the efficiency and effectiveness of teachers in generic subjects. It can help teachers save time and energy by streamlining the teaching process by providing tailored responses to students' questions. This frees their time and energy to focus on more complex tasks, such as helping students develop problem-solving skills. To be accurate and to avoid any possible biases in the output of ChatGPT, people may expect explainability from AI models. Basically, it means being able to figure out why the model made the decisions and responses it did. It's important to make sure AI models are trustworthy and used ethically.

As far as sustainability is concerned, advanced AI systems like ChatGPT require vast computational power and ongoing training, which can have a pretty big energy consumption and carbon footprint. And that's definitely a concern for sustainability. While ChatGPT is a cool technology with a lot of potential benefits and we need to keep sustainability and explainability in mind as we move forward with it. We need to find ways to minimize the environmental impact as well as train young human brains to learn things to develop their logic and analytical skills by being less dependent on the machine and making sure that we're using AI in a responsible and sustainable way.

Which of the following sentence(s) can be inferred from the given passage?

- A. From personalized recommendations to automated customer service, ChatGPT has significantly impacted our lives.
- B. Advanced AI systems like ChatGPT require vast computational power and ongoing training, which can have a pretty big energy consumption and carbon footprint.
- C. While technologies like ChatGPT have many benefits, we need to find ways to minimize the environmental impact and also, train young minds to not be fully dependent on Artificial intelligence.

- 1. Both A & B
- 2. Only A
- 3. Both B & C
- 4. Only B
- 5. All A, B & C

Correct Option - 3

Que. 122 Which of the following sentence(s) can be inferred from the given passage?

- A. ChatGPT is not a promising technology in the education space because there's still a lot of R&D work to be done to integrate it into existing systems and ensure that it aligns with educational quality, policies, and standards.
- B. Moving forward with ChatGPT we need to keep sustainability and explainability in mind.
- C. ChatGPT, a Machine Learning (ML)-based system that can give accurate answers, especially on complex or nuanced subjects.

- 1. Only A
- 2. Both A & B
- 3. Only C
- 4. Only B
- 5. Both B & C

Correct Option - 4

Que. 123 There is a blank given in the passage, fill the blank with the most appropriate option given below.

The challenge for educators is to find a way to use ChatGPT without sacrificing teacher control, this is a complicated task,_____.

1. It requires technical skills.
2. It requires a balance between learning and technology.
3. It can not be done with human touch-based teaching.
4. Requiring a careful balancing act between human and machine learning.
5. It can not be done with the help of ChatGPT.

Correct Option - 4

Que. 124 Which of the following sentence(s) can not be inferred from the given passage?

- A. There are several concerns associated with using AI in the classroom such as big energy consumption and carbon footprint.
- B. People may expect explainability from AI models which means being able to figure out why the model made the decisions and responses it did.
- C. The ChatGPT model significantly increases the efficiency and effectiveness of teachers in generic subjects and frees their time and energy to focus on more complex tasks, such as helping students develop problem-solving skills.

1. Both A & B
2. Only C
3. Only B
4. Both B & C
5. Only A

Correct Option - 5

Que. 125 Which of the following words given from the passage is **similar** in meaning to 'Constrain'?

1. Streamline
2. Stifle
3. Unreliable
4. Lacunae
5. Trustworthy

Correct Option - 2

Que. 126 Which of the following sentence(s) can be inferred from the given passage?

- A. Like a teacher navigates the student to understand the subject, machines have also learned this kind of human touch-based teaching.
- B. A student's reliance on ChatGPT can unleash creativity and critical thinking skills.
- C. ChatGPT can not help teachers save time and energy by streamlining the teaching process by providing tailored responses to students' questions.

1. Only A
2. Both A & B

3. Only C
4. Both B & C
5. None of these

Correct Option - 5

Que. 127 According to the passage which of the following is/are concerns regarding ChatGPT when it comes to ensuring that it aligns with educational quality, policies, and standards?

1. Security
2. The possibility of biases in algorithms
3. Both 1 & 2
4. Plagiarism & Accuracy
5. All 1, 2 & 4

Correct Option - 5

Que. 128 Why AI systems like ChatGPT can be a concern for sustainability?

1. Because they require vast computational power and ongoing training
2. Because they are a threat to humans
3. Because they don't have human touch-based teaching
4. Both 1 & 2
5. None of these

Correct Option - 1

Que. 129 **Directions:** A passage is given which is divided into five paragraphs. Read the passage carefully to answer the given questions. Each question will have five alternatives as its answer, choose the correct option as your answer.

Paragraph - 1

Urban agriculture refers to agricultural practices in urban and peri-urban areas. Peri-urban areas are those transitioning from rural land uses (such as for agriculture or livestock production) to urban ones (such as the built environment, manufacturing, services, and utilities), and are located between the outer limits of urban and regional centres and the rural environment. Urban agricultural practices are geared towards cultivating or growing a wide range of food and non-food products, and include activities such as rearing livestock, aquaculture, beekeeping, and commercial-scale floriculture.

Paragraph - 2

However, despite the variety of agricultural activities attempted under urban agriculture, it is unlikely to include the cultivation of staple foods due to the complexities involved (such as soil management, irrigation, transplantation, mechanisation, and harvesting) and the vast land space required. Food products that can be cultivated through urban agriculture will _____ be those that contribute micronutrients, such as fruits, vegetables, dark leafy greens, fish, and legumes. These are compounds that are needed in minimal quantities and aid in the human body's growth, development, and maintenance.

Paragraph - 3

Urban agriculture comprises various livelihood systems, from **subsistence** production at the household level to more commercialised agriculture. This is one of its main attributes, as it can be adapted to a wide range of urban situations and to the needs of diverse stakeholders. Urban agriculture is increasingly being adopted in cities worldwide by urban local bodies (ULBs), entrepreneurs, non-governmental organisations, community groups,

and citizens. Indeed, as per the United Nations' Food and Agricultural Organization, urban and peri-urban agriculture have a significant role in global food and nutritional security, and so it is seeking to encourage such activities through the Urban Food Agenda.

Paragraph - 4

The Urban Food Agenda comprises policies, programmes, and initiatives developed and implemented in partnership with civil society, academia, international agencies, city entities, and the private sector. In recent years, urban and peri-urban areas worldwide are estimated to have produced between 5 percent to 10 percent of legumes, vegetables, and tubers, and between 15 percent to 20 percent of all food. The world is increasingly becoming more urban, with 68 percent of the global population—estimated to rise to 9.8 billion by 2050—expected to reside in urban areas by that year, meaning cities will also consume the majority (80 percent) of all food produced globally.

Paragraph - 5

Importantly, by 2050, the arable land per person will have decreased to one-third of what was available in 1970 due to climate change, declining fisheries, and degradation from overfarming and poor production practices. In this context, the social, economic, and environmental sustainability of food systems and evolution of urban diets _____ . Therefore, a greater focus on the Urban Food Agenda is long overdue so ULBs and other relevant stakeholders can begin planning urban areas **adequately**.

Which of the following sentence(s) can be inferred from **paragraphs 1 & 2** of the given passage?

- A. Urban agriculture is improbable to include the cultivation of staple foods despite the variety of agricultural activities attempted under it.
- B. Urban agriculture refers to agricultural practices in either urban or peri-urban areas.
- C. Food products that can be cultivated through urban agriculture are needed in minimal quantities and aid in the human body's growth, development, and maintenance.

1. Only A
2. Both A & B
3. Only B
4. Both A & C
5. All A, B & C

Correct Option - 4

Que. 130 Which of the following sentence(s) can be inferred from **paragraphs 3 & 4** of the given passage?

- A. The urban local bodies (ULBs) in cities worldwide are abandoning Urban agriculture while entrepreneurs, non-governmental organisations, community groups, and citizens are increasingly adopting urban agriculture.
- B. The world is increasingly becoming more urban, with 68 percent of the global population - estimated to drop to 9.8 billion by 2050 - expected to reside in urban areas by that year.
- C. As per the United Nations' Food and Agricultural Organization, urban and peri-urban agriculture have an important role in global food and nutritional security, and thus it is aiming to encourage such activities through the Urban Food Agenda.

1. Only B
2. Both A & B
3. Only A
4. Both C & A
5. Only C

Correct Option - 5

Que. 131 Which of the following sentence(s) can be inferred from **paragraph 5** of the given passage?

- A.** A greater focus on the Urban Food Agenda is long overdue so United Nations' Food and Agricultural Organization and other Governmental and non - Governmental organizations can begin planning urban areas adequately.
- B.** The arable land per person will decrease by 2050 due to climate change, declining fisheries, and degradation from overfarming and poor production practices.
- C.** By 2050, the arable land per person will have decreased to one-fourth of what was available in 1970.

1. Only A
2. Both A & B
3. Only B
4. Only C
5. All A, B & C

Correct Option - 3

Que. 132 There is a blank given in one of the paragraphs of the passage, Fill the blank with the most appropriate option given below.

In this context, the social, economic, and environmental sustainability of food systems and evolution of urban diets _____.

1. will be the major problem faced by the entire world.
2. can be achieved through rural agriculture.
3. will largely depend on managing food systems in urban and peri-urban areas.
4. can also create job opportunities for city residents in the agricultural sector.
5. will not depend on managing food systems in urban and peri-urban areas.

Correct Option - 3

Que. 133 Which of the given words is **most opposite** in meaning to '**Subsistence**'?

1. Nourishment
2. Support
3. Deprivation
4. Sovereign
5. Alliance

Correct Option - 3

Que. 134 Which of the following is one of the main attributes of urban agriculture as per the given passage?

1. It comprises various livelihood systems, from subsistence production at the household level to more commercialised agriculture.
2. It includes agricultural practices in both urban and peri-urban areas.
3. Both 1 & 2
4. It is increasingly being adopted in cities worldwide by urban local bodies (ULBs), entrepreneurs, non-governmental organisations, community groups, and citizens.

5. None of these

Correct Option - 1

Que. 135 What will come in the blank taken from the passage?

Food products that can be cultivated through urban agriculture will _____ be those that contribute micronutrients, such as fruits, vegetables, dark leafy greens, fish, and legumes.

1. Reportedly
2. Important
3. Supposedly
4. Paucity
5. Predominantly

Correct Option - 5

Que. 136 What is the **central theme** of the given passage?

1. Urban agriculture and its increasing popularity
2. Why urban agriculture is the future?
3. Optimizing Urban Agriculture: A pathway to food security
4. Urban agriculture: Advantages & Disadvantages
5. The future of agriculture

Correct Option - 3

Que. 137 **Directions: A paragraph is given below which contains one or more errors in it. Read the paragraph carefully, find out how many errors are there in the paragraph and mark it as your answer.**

Almost half of all health spending in India is still paid by patients themselves directly at the point of treatment, although this has dropped as the government's share of spending on health went up significantly after 2013-14, according to the Economic Survey 2022-23. The share of government health expenditure in total health expenditure was just 28.6% in the financial year 2013-14 but rose to 40.6% by 2018-19, the latest year for which data is available. There was a concomitant decline in out-of-pocket expenditure as a percentage of total health expenditure from 64.2% in 2013-14 to 48.2% in 2018-19. Out-of-pocket expenditure is the money paid directly by households, at the point of receiving health care. This occurs when services are neither provided free of cost through a government health facility or is the individual covered under any public or private insurance or social protection scheme.

1. 1
2. 2
3. 3
4. 4
5. 5

Correct Option - 1

Que. 138 **Directions: A paragraph is given below which contains one or more errors in it. Read the paragraph carefully, find out how many errors are there in the paragraph and mark it as your answer.**

The month-long Kashi Tamil Sangamam, which showcased Tamil culture, heralded a new era where ancient Indian traditions intermingle with each other and are revitalised with the help of modern practices so that they contribute to cultural and economic growth. It gave a rich cultural context to India's mission to become a developed country by 2047. The event carried away our tradition of Ek Bharat Shreshtha Bharat. The event will see people from all walks in life from Tamil Nadu visiting Kashi. They experienced the city's traditions and its iconic landmarks such as the Kashi Vishwanath temple.

1. 1
2. 2
3. 3
4. 4
5. 5

Correct Option - 4

Que. 139 **Directions: A paragraph is given below which contains one or more errors in it. Read the paragraph carefully, find out how many errors are there in the paragraph and mark it as your answer.**

The Food and Agriculture Organization of the United Nations (FAO) will be declaring 2023 as the International Year of Millets. The Government of India and State governments, notably Karnataka and Odisha, have initiated Millet Missions. These policies are welcome, but nonetheless we pay attention to the economics of millet cultivation, we face a losing battle against more profitable alternatives. Small farmers in hilly regions and dryland plains who are among poorest households in rural India are going to cultivate millets only if it gives them good returns. Adequate public support can make millet cultivation profitable, ensure supply for the PDS, and, ultimately, provide nutrition benefits to a wide section of the population.

1. 1
2. 2
3. 3
4. 4
5. 5

Correct Option - 3

Que. 140 **Directions: A paragraph is given below which contains one or more errors in it. Read the paragraph carefully, find out how many errors are there in the paragraph and mark it as your answer.**

Google researchers have developed an AI tool, MusicLM, that can generate high-quality music from text descriptions. The AI model generates music at 24 kHz that remains consistent over several minutes. It outperforms previous systems both in audio quality and adherence to the text descriptions. The tech company however does not have any plans to releasing the model right now as it acknowledged that there are several risks associated with the new model and the use case it tackles. Google's AI tool is certainly not the first generative artificial intelligence system for songs. There have been other attempts, including Riffusion, an AI that composes music by visualizing it, as well as Dance Diffusion, Google's own AudioML, and OpenAI's Jukebox.

1. 1

2. 2
3. 3
4. 4
5. 5

Correct Option - 1

Que. 141 **Directions: A paragraph is given below which contains one or more errors in it. Read the paragraph carefully, find out how many errors are there in the paragraph and mark it as your answer.**

Sickle Cell Anaemia is a common genetic disorder among Indians effecting the red blood cells. It is transmitted by parents carrying a defective 'beta globin' gene. The disease start early in life. Those affected have persistent pain, low amount of haemoglobin, low energy, reduced growth along with other abnormalities, and multiple episodes of frequently severe pain. Like most genetic disorders, SCA has no cure but has symptomatic treatments for pain, anaemia, and vaso-occlusive crisis. The disease is well-known in tribal populations as well as prevalent in general populations in Maharashtra, Madhya Pradesh, Chhattisgarh, and Odisha.

1. 1
2. 2
3. 3
4. 4
5. 5

Correct Option - 3

Que. 142 **Directions: Given below is a set of six sentences, which when properly sequenced, form a comprehensible paragraph. Arrange the sentences in the correct sequence and answer the questions that follow.**

- A. Coveted watch brand Rolex, seen as a traditionalist luxury label, kicked off a certified pre-owned programme in Europe in December 2022.
- B. According to a recent Deloitte report, the pre-owned watch market is likely to grow to CHF 35 billion (Swiss francs) and make up more than half of the primary market by 2030.
- C. There was a time when buying second-hand or what is now called pre-loved fashion, was frowned upon, today, it is the talk of the luxury-burg town.
- D. This market will be driven _____ who prefer to shop online and have a penchant for pre-owned luxury due to price sensitivity and sustainability.
- E. Revered watch and couture brands are realising the allure of pre-loved glamour and adopting this trend to not only meet their sustainability goals but also as a new way of revenue generation.
- F. In its announcement, the company stated that the watches will benefit from the exacting quality criteria inherent to all its products, adding: "Because they are built to last, Rolex watches often live several lives."

Which of the following is the correct arrangement of the sentences?

1. ABDFCE
2. CEAFFD
3. BDCEAF
4. CEABFD

5. FEBCDA

Correct Option - 2

Que. 143 Which of the following will be the fourth sentence after rearrangement?

1. A
2. B
3. C
4. D
5. None of these

Correct Option - 5

Que. 144 There is a blank in the sentence 'D', which of the following phrase can fill in the blank both grammatically and meaningfully?

This market will be driven_____who prefer to shop online and have a penchant for pre-owned luxury due to price sensitivity and sustainability.

1. by middle-class people
2. by rich people
3. by younger consumers
4. by the elderly and antique collectors
5. None of these

Correct Option - 3

Que. 145 Which of the following sentence can come between the third and fourth sentences after the rearrangement?

1. Coach has launched a (Re)Loved programme wherein owners can bring in their bags for refurbishing, reimagining, and recycling.
2. The growth will be supported by brands launching their very own new pre-owned offerings, the expansion of existing channels, and consumers looking for discontinued timepieces.
3. Pre-loved fashion by popular Indian designers is also gaining interest on re-commerce stores.
4. With it, Rolex offers pre-loved watches, certified by the brand with a two-year international guarantee, valid from the date of resale in the Rolex network.
5. None of these

Correct Option - 4

Que. 146 Which of the following sentence can come between the fifth and sixth sentences after the rearrangement?

1. Like most online businesses, second-hand luxury aggregators too benefited during the pandemic lockdown as travel opportunities were limited for luxury consumers.
2. The growth will be supported by brands launching their very own new pre-owned offerings, the expansion of existing channels, and consumers looking for discontinued timepieces.

3. When the resale programme is brand specific, it is only going to cater to the customers of that particular brand.
4. She adds, "For authentication, we do not work directly with the brands, but we have an expert team that is always keeping an eye on the latest launches by various brands and factors that help us to authenticate.
5. None of these

Correct Option - 2

Que. 147 Given below are the two sentences each containing five highlighted words. Read the given sentences and answer the questions that follow:

- I. Besides this **distinguished (A)** selection of society Anna Shakhkot's **receptions (B)** were also **elegant (C)** by II. that she always **presented (D)** some new and **political (E)** person to the visitors and that nowhere else was the state of the **compelling(F)** thermometer of legitimate Petersburg court society so dearly and distinctly indicated.

Which of the following can connect the above statements I and II?

- A. The fact
 - B. Indeed
 - C. However
-
1. Only B
 2. Only A
 3. Only C
 4. Both A and C
 5. None of these

Correct Option - 2

Que. 148 Which of the following words should replace each other to form a meaningful and grammatically correct sentence?

1. B-C and E-F
2. A-C and F-E
3. A-D and F-C
4. B-C and D-F
5. None of these

Correct Option - 2

Que. 149 Given below are the two sentences each containing five highlighted words. Read the given sentences and answer the questions that follow:

- I. Corrupt **relationships(A)** of Confucianism by heteronormative men have **historically(B)** championed these ideas in terms of vertical **interpretations (C)**
- II. as a reciprocal set of **interactions (D)** social **benevolent(E)**, meaning that women have **suffered(F)** greatly as a result.

Which of the following words should replace each other to form a meaningful and grammatically correct

sentence?

1. A-C and F-E
2. A-C and D-E
3. A-B and D-E
4. D-F and B-C
5. None of these

Correct Option - 2

Que. 150 Which of the following can connect the above statements I and II?

1. Because
2. Yet
3. But
4. Rather than
5. None of these

Correct Option - 4

Que. 151 **Directions: In a question given below an incomplete sentence that must be filled/completed with one of the sentence /phrases can be fit into the given blanks. Choose the correct option and complete the given sentence.**

The focus has been on finishing the syllabus instead of concentration on whether the student

- _____.
1. is being able to understand what is not taught
 2. is being able to judge whether the school is reducing the fees or not
 3. is being able to know whether the school is organising the fest or not.
 4. is being able to perform well or not.
 5. is being able to understand what is being taught.

Correct Option - 5

Que. 152 **Directions: In a question given below an incomplete sentence that must be filled/completed with one of the sentence /phrases can be fit into the given blanks. Choose the correct option and complete the given sentence.**

Due to the rapid mechanisation of low-skill jobs in the construction and retail sectors, employment prospects _____.

1. for the poor appearing increasingly dismal.
2. for the poor appear increasingly dismal.
3. for them poor appear increasingly dismal.
4. for the poor appear increasing dismal.
5. for these poor appear increasing dismal.

Correct Option - 2

Que. 153 **Directions: In a question given below an incomplete sentence that must be filled/completed with one of the sentence /phrases can be fit into the given blanks. Choose the corret option and complete the given sentence.**

The high court on wednesday warned the Delhi government of attaching its bank accounts if _____ of municipal school teachers in east and north Delhi.

1. it did not increase the fees of the students
2. it did not open a joint account
3. it did not mention the name of
4. it did not release funds for payment of salaries
5. it did not organise the school fest

Correct Option - 4

Que. 154 **Directions: Below each question, some sentences are given, find the sentence which is not really contributing to the main theme and OUT of the passage or find the odd sentence and rearrange the remaining sentences to make a coherent paragraph.**

(A) The island nation has the highest rate of pre-primary education and all pregnant teenagers have access to antenatal care.

(B) The coal plants are likely to keep running over the next few days, alongside a fleet of gas-fired power plants, before breezy weather returns to help meet the rising demand for electricity from renewable energy sources.

(C) High rates of child marriage and malnutrition, and very low levels of school enrolment made Chad and South Sudan the worst places in Africa to be born a girl.

(D) Girls in Africa are being “condemned to a lifetime of discrimination and inequality” due to government failures, according to new data.

(E) In contrast, Mauritius was the best, being among the countries to have reformed their laws on girls’ rights, and harmonised them with international standards.

1. ECDA
2. DCEA
3. BACE
4. ABCE
5. DEAC

Correct Option - 2

Que. 155 **Directions: Below each question, some sentences are given, find the sentence which is not really contributing to the main theme and OUT of the passage or find the odd sentence and rearrange the remaining sentences to make a coherent paragraph.**

(A) Rainfed agriculture represents 60% of global crop production, and 80% of land under cultivation, with the rest benefiting from irrigation.

(B) Combined with a “sorry saga” of incompetence and failure, this has left taxpayers footing the bill for “astronomical sums”, they said.

(C) This results from decades of poor record-keeping and weak government oversight, the MPs said.

(D) The Nuclear Decommissioning Authority (NDA) has a perpetual lack of knowledge about the state and location of waste on the 17 sites it is responsible for making safe, a powerful committee of MPs has found.

(E) The NDA acknowledges that it still does not have full understanding of the condition of its sites, including 10 closed Magnox stations from Dungeness in Kent to Hunterston in Ayrshire, the MPs report said.

1. ACDB
2. DCBE
3. ECBD
4. CEAB
5. BEAD

Correct Option - 2