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SBI PO Pre

Read the following instructions carefully before you begin to attempt the questions.

INSTRUCTIONS TO CANDIDATE

- (1) This booklet contains **100 Questions** in all comprising the following **Three** parts.
Part-(I) : Reasoning Ability (30 Questions)
Part-(II) : Quantitative Aptitude (30 Questions)
Part-(III) : English Language (40 Questions)
- (2) All the questions are compulsory and carry equal marks.
- (3) Before you start to attempt the questions, you must explore this booklet and ensure that it contains all the pages and find that no page is missing or replaced. If you find any flaw in this booklet, you must get it replaced immediately.
- (4) **Each question carries negative marking also as 0.25 mark will be deducted for each wrong answer.**
- (5) You will be supplied the Answer-sheet separately by the invigilator. You must complete the details of Name, Roll number, Test name/Id and name of the examination on the Answer-Sheet carefully before you actually start attempting the questions. You must also put your signature on the Answer-Sheet at the prescribed place. These instructions must be fully complied with, failing which, your Answer-Sheet will not be evaluated and you will be awarded 'ZERO' mark.
- (6) Answer must be shown by completely blackening the corresponding circles on the Answer-Sheet against the relevant question number by **Black/Blue ball pen** only.
- (7) A machine will read the coded information in the OMR Answer-Sheet. In case the information is incompletely/different from the information given in the application form, the candidature of such candidate will be treated as cancelled.
- (8) The Answer-Sheet must be handed over to the Invigilator before you leave the Examination Hall.
- (9) Failure to comply with any of the above Instructions will make a candidate liable to such action/penalty as may be deemed fit.
- (10) Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any question.
- (11) Mobile phones and wireless communication device are completely banned in the examination halls/rooms. Candidates are advised not to keep mobile phones/any other wireless communication devices with them even switching it off, in their own interest. Failing to comply with this provision will be considered as using unfair means in the examination and action will be taken against them including cancellation of their candidature.
- (12) No rough work is to be done on the Answer-Sheet.
- (13) No candidate can leave the examination hall before completion of the exam.

NAME OF CANDIDATE:.....

DATE :..... **CENTRE CODE :**.....

ROLL No

Maximum Marks : **100**

Total Questions : **100**

Time Allowed : **60 Min.**

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

SPP-909214129-E

Reasoning Aptitude

Directions [1-4]: Answer the questions based on the information given below.

Eight persons P1, P2, P3, P4, P5, P6, P7 and P8 sit in a row and face the north direction but not necessarily in the same order. Distance between the persons sitting at extreme ends are 42m. Distance between adjacent persons is equal.

The distance between P3 and P5 is 18m. As many persons sit to the right of P3 as to the left of P7. P4 sits 6m to the right of P5. P4 sits 12m from one of the extreme ends. Distance between P7 and P8 is more than 18m. P1 sits adjacent to P8. Distance between P1 and P6 is at least 12m. Distance between P2 and P1 is more than 18m. P3 doesn't sit at any extreme ends.

1. Who sits at extreme right end of the row?

- (A) P7 (B) P8
(C) P6 (D) P2
(E) None of the above

2. What is the distance between P2 and P4?

- (A) 12m (B) 18m
(C) 30m (D) 24m
(E) None of the above

3. Who sits 24m away from P3?

- (A) P2 (B) P6
(C) P4 (D) P1
(E) None of the above

4. Find the odd one out.

- (A) P7 (B) P8
(C) P4 (D) P6
(E) P3

Directions [5-9]: Answer the questions based on the information given below.

Eight persons A, B, C, D, E, F, G and H were born in 8 different years i.e., 1984, 1986, 1989, 1991, 1994, 1997, 2001 and 2004 but not necessarily in the same order. They all are born on 1st April of the given years. The ages of the persons are calculated as on 1st April, 2022

Age of D is a perfect square. A is 2 years older than F. Difference between the age of C and G is 3 years. C is not born in an odd numbered year. H was born after G. Difference of age between D and B is one year less than the difference between E and H.

5. Who was born in the year 1989?

- (A) B (B) A
(C) F (D) C
(E) None of the above

6. How many persons were born between E and D?

- (A) Four (B) Five
(C) Two (D) Three
(E) Cannot be determined

7. What is the difference of the age of D and G?

- (A) 11 years (B) 6 years
(C) 4 years (D) 13 years

(E) None of the above

8. Who was born five years before C?

- (A) D (B) B
(C) A (D) G
(E) None of the above

9. If a meaningful word can be formed using the 2nd, 5th, 6th and 8th letters of the word "GENEROUS" from the left end, and then what is the third letter from the right end of the word formed? If no such word can be formed, then mark Y as your answer while if more than one such word can be formed, then mark Z as your answer.

- (A) O (B) Z
(C) R (D) Y
(E) S

Directions [10-12]: Answer the questions based on the information given below.

Seven containers P, Q, R, S, T, U and V have different weight but not necessarily in the same order. The difference between the weight of T and R is 20kgs. The weight of 2nd heaviest box is 59kgs. Only one box is lighter than V. P is just heavier than U, which is heavier than R. Two boxes have weight between V and P. S is just heavier than T. R is not the lightest container.

10. If the sum of the weight of R and the 3rd heaviest container is 89kgs, then what may be the weight of U?

- (A) 50kgs (B) 45kgs
(C) 30kgs (D) 63kgs
(E) Cannot be determined

11. Which container is 4th heaviest?

- (A) R (B) P
(C) U (D) T
(E) None of the above

12. Study the given information and answer the following questions based on it.

K is the paternal grandmother and J is the maternal grandfather of L and M respectively. G is the mother of the son of R's brother. Y is sister of the husband of G. R is the aunt of the daughter of H who is not brother of R.

- Who is the father of L?
(A) H (B) J
(C) Y (D) R
(E) Can't be determined

Directions (13-14): From point P, Naina moves 22m towards east and then she takes left turn and walks 2m to reach point R. She then turns to her right and walks for another 10m to point Q. After that, she turns to her left and walk for 7m to reach point S and stops there. Nupur started from point A. Point B is 18m to the west point A. From point B, she moves 15m to the south to reach point C. Point S is 11m to the east of point C.

13. If point K is 9m to the north of point P, then what is the distance and direction of point C with respect to point K?

- (A) 19m to the south (B) 21m to the east
(C) 25m to the south (D) 21m to the west
(E) 17m to the north

14. Four of the following pairs are related to each other in some way and thus form a group, which of the following pair does not belong to that group?

- (A) C-A (B) R-S
(C) P-Q (D) R-A
(E) B -S

Directions [15-17]: Answer the questions based on the information given below.

In a certain code language,

I. 'Rajasthan Ethnic wear Great' is coded as 'qq, pp, nn, rr'

II. 'Wear Ethnic Clothes Only' is coded as 'oo, ss, qq, rr'

III. 'Only Rajasthan Win Games' is coded as 'pp, ss, tt, dd'

IV. 'They Only Won Great Games' is coded as 'ee, dd, nn, mm, ss'

15. _____ is coded as 'Only Rajasthan Clothes'.

- (A) rr, ss, qq (B) tt, dd, nn
(C) ss, pp, oo (D) qq, ss, oo
(E) pp, ss, nn

16. If 'Wear Clothes' is coded as 'rr, oo', then what could be the code of 'Ethnic culture Games'?

- (A) nn, qq, pp (B) qq, bb, cc
(C) dd, rr, nn (D) qq, dd, bb
(E) Cannot be determined

17. What is the code of the word 'Only win'?

- (A) ss, oo (B) oo, ss
(C) ss, tt (D) tt, mm
(E) Cannot be determined

18. In the following question, three statements are given and two conclusions are given below these statements. Choose the option which shows the conclusions which logically follow from the given statements, disregarding commonly known facts.

Statement: Only a few cycles are Tube
No Tube is Black

Only a few Black are Puncture

Conclusion: I. Few Black are Cycles

II. Few Puncture are Tube

- (A) Either Conclusion I or II
(B) Only Conclusion I
(C) Neither Conclusion I nor II
(D) Only Conclusion II
(E) Both Conclusions I and II

19. In the following question, three statements are given and two conclusions are given below these statements. Choose the option which shows the conclusions which logically follow from the given statements, disregarding commonly known facts.

Statements: Only plants are grass.

Only a few bushes are trees.

Some plants are trees.

Conclusions: I. No grass is a tree.

II. Some grass can be bush.

- (A) Only I follows (B) Only II follows
(C) Both I and II follow (D) Either I or II follows
(E) Neither I nor II follows

20. In the question below there are four statements followed by three conclusions I, II and III. You have to take the four given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the four statements disregarding commonly known facts.

Statements: Some Car are Tough.

All Tough are Truck.

No Truck is Light.

All Light are Strong.

Conclusions: I. Some Tough are not Light.

II. Some Truck are not Strong.

III. Some Car are not Light.

- (A) Only conclusions I and II follow
(B) Only conclusions I and III follow
(C) Only conclusions II and III follow
(D) Only conclusion I follows
(E) All the conclusions follow

Directions [21-25]: A circular farm is divided into ten equal regions, viz., A, B, C, D, E, F, G, H, I and J, but not necessarily in the same order.

Note: Consider your left-hand side as right side and your right-hand side as left side of the farm.

I is fourth to the left of J. Two farms are between J and C. G is third to the right of D, which is sixth to the left of C. E is immediate to the left of H. Four farms are between B and E. F is not adjacent to B.

21. How many farms are between A and C?

- (A) Either two or three (B) Either one or five
(C) Four (D) Six
(E) Seven

22. Four of the following five are alike in a certain way and thus form a group. Which of the following does not belong to the group?

- (A) Farm F and Farm I (B) Farm J and Farm D
(C) Farm A and Farm B (D) Farm C and Farm G
(E) Farm E and Farm H

23. Farm E is _____ of Farm I.

- (A) Second to the left (B) Third to the right
(C) Fourth to the left (D) Fourth to the right
(E) None of these

24. Which of the following statements is/are correct?

- (A) Farm G is adjacent to Farm B and Farm I.
(B) There are five farms between Farm A and Farm D.
(C) All are true
(D) There are three/five farms between Farm A and Farm E.
(E) There is only one farm between Farm C and Farm I.

25. If farm J is replaced by Farm M and Farm F is replaced by Farm K, then what is the position of Farm M with respect to Farm H and Farm K, respectively?

- (A) Immediate right and fifth to the left
(B) Second to the left and second to the right
(C) Third to the left and second to the right
(D) Second to the left and fourth to the right
(E) None of these

Directions [26–30]: Twelve persons- A, C, F, I, K, M, O, R, T, V, X and Z are living on a three-storeyed building, such as the bottommost floor is numbered as 1, above that floor as 2 and so on. Each floor has four flats- Flat 1, Flat 2, Flat 3, and Flat 4 from west to east. Only one person lives in each flat. The flat and floor number of T is same. Z lives immediately below T in the same flat. C and R live in flat 1 of floor 2 and flat 3 of floor 1 respectively. Only one floor is between O and F. A does not live on floor 3. F lives immediately east of X. A lives immediately above V in the same flat. O lives above F in an even number flat. C lives immediately west of K. I does not live in flat 4. O and F live in the same flat.

Note: If A lives in flat 1 and A lives immediately below B means B either lives in flat 1, flat 2, flat 3 or flat 4. If A lives immediately west of B means A and B live on the same floor.

26. Who among the following lives in Flat 4?
(A) T (B) C
(C) X (D) Z
(E) M
27. Which of the following statement is true?
(A) I lives in flat 1.
(B) Only one floor is between M and V.
(C) O lives immediately east of I.
(D) F lives below Z.
(E) All statements are true.
28. K lives _____.
(A) Flat 4 floor 1 (B) Flat 2 floor 2
(C) Flat 1 floor 3 (D) Flat 3 floor 1
(E) Flat 2 floor 3
29. Four of the following are related to each other in some way and thus form a group, who among the following does not belong to that group?
(A) I (B) X
(C) O (D) A
(E) R
30. F lives immediately below _____, who lives immediately west of _____.
(A) K, Z (B) T, C
(C) I, R (D) X, M
(E) V, O

Quantitative Aptitude

31. The income of each employees of a company increases by 25% from their previous income. After increment the average income of all employees become ₹40,000. Find the income of a employee Arun whose income is 20% more than the average income of all employees before increment.
(A) ₹37400 (B) ₹38000
(C) ₹38400 (D) ₹39000
(E) ₹39400

32. The ratio of denominator of a fraction to its numerator is 5:9. If 15 is added to both numerator and denominator, the ratio becomes 3:2 respectively. Find the denominator of the original fraction.

- (A) 30 (B) 25
(C) 45 (D) 50
(E) 10

33. In the following question, two equations I and II are given. Solve both the equations carefully and choose the correct option.

I. $18x^2 - 45x + 28 = 0$ II. $12y^2 - 20y + 7 = 0$

- (A) $x < y$
(B) $x \geq y$
(C) $x \leq y$
(D) $x = y$ or no relation can be established between x and y
(E) $x > y$

34. In the following question, two equations I and II are given. Solve both the equations carefully and choose the correct option.

I. $3X^2 - 51X + 198 = 0$ II. $3Y^2 + 9Y - 162 = 0$

- (A) $X < Y$
(B) $X = Y$ or relationship cannot be established
(C) $X \geq Y$
(D) $X \leq Y$
(E) $X > Y$

35. Area of a circle and a rectangle are in the ratio 7: 8 respectively and perimeter of rectangle is 14 cm more than the perimeter of circle. If longer side of rectangle is 4 cm more than its shorter side (whose length is an integer), then calculate the perimeter of the rectangle. (take $\pi = 22/7$)

- (A) 72 cm (B) 80 cm
(C) 84 cm (D) 90 cm
(E) 92 cm

36. Mani bought two items at ₹2000 each. He sold one item at $(3y - 5)\%$ profit and the other at $(2y - 3)\%$ loss. If he earned a profit of ₹40 in whole transaction, then the value of 'y' is equal to -

- (A) 4 (B) 3
(C) 5 (D) 6
(E) 2

37. A bag contains 11 coins of 1Rs., 8 coins of ₹2 and 9 coins of ₹5. If 3 coins are drawn at random then find the probability that all of them are ₹2 coins.

- (A) $2/117$ (B) $2/13$
(C) $4/39$ (D) $1/13$
(E) $4/117$

Direction: (38 – 41): What approximate value will come in place of the question mark (?) in the following question? (**Note:** You are not expected to calculate the exact value.)

38. 74.86% of $(6.01^3 + 17.99^2 + 59.96) = ? \times \sqrt{9.1}$

- (A) 95 (B) 210
(C) 150 (D) 275
(E) 70

39. $119.86 \text{ of } 24.89 \div 15.89 \text{ of } 14.84 \times 8.02 = ?^2 + 18.982$
 (A) 36 (B) 24
 (C) 9 (D) 81
 (E) 243

40. $\frac{\sqrt{290} \times \sqrt{325}}{\sqrt{15} + \sqrt{170}} + \frac{71.98}{?} = \sqrt{902}$
 (A) 6 (B) 16
 (C) 32 (D) 48
 (E) 64

41. $34.78\% \text{ of } 399.892 \div (15.78 - 8.92) = ? \times 4.98 - \sqrt{401}$
 (A) 80 (B) 40
 (C) 25 (D) 16
 (E) 8

42. Find the missing term (?) in the following series-
 157, 108, 72, 47, 31, ?
 (A) 22 (B) 15
 (C) 9 (D) 6
 (E) 16

43. What will come in place of the question mark (?) in the following series?
 20, 24, 32, ?, 80, 144
 (A) 42 (B) 40
 (C) 64 (D) 48
 (E) 60

44. Soumya lent ₹6600, ₹8000 and ₹5000 to Prachi, Ankita and Preeti respectively at the rate of 5% for 't' years. If she earned ₹2920 as simple interest from Prachi and Ankita then find the interest that she earned from Preeti at same rate and time.
 (A) ₹1400 (B) ₹1550
 (C) ₹780 (D) ₹1600
 (E) ₹1000

45. A swimmer swims from point P to point Q on a river against the stream and after travelling for 16 km he increases his speed by 4 km/h and thus reduces his time by 40 minutes. Original speed of swimmer in still water is 15 km/h and speed of stream is 3 km/h, then what is the distance between points P and Q?
 (A) 32 km (B) 48 km
 (C) 60 km (D) 40 km
 (E) None of these

46. Chanda can walk 5km in 1 hour. If he uses his motorbike to commute to his office, he can reach his office in 15 minutes. If speed of the motorbike is 60km/hr, how long will Chanda take to reach his office if he covers the distance on foot?
 (A) 3 hours (B) 2 hours
 (C) 5 hours (D) 4 hours
 (E) 6 hours

47. Amal and Kamal started a business by investing ₹'X' and ₹(X + 700), respectively. 20 months later, Kamal withdrew his entire investment. At the end of 24 months, the total profit from the business was ₹8,200, out of which profit share of Kamal was ₹1,800 more than that of Amal. Find the value of 'X'.
 (A) 800 (B) 1400
 (C) 600 (D) 900
 (E) 1100

48. Two pipes can fill a tank in 36 and 20 minutes respectively and a leakage pipe can empty 26 gallons per minute. All three pipes working together can fill the tank in 24 minutes. Find the capacity of the tank.

(A) 600 gallons (B) 840 gallons
 (C) 720 gallons (D) 360 gallons
 (E) 240 gallons

49. 'A' alone can complete some work in 30 days. 'B' is twice as efficient as 'A' and thrice as efficient as 'C'. If 'B' and 'C' start working together, then after how many days 'A' should join them so that the work gets completed in exactly 9 days?

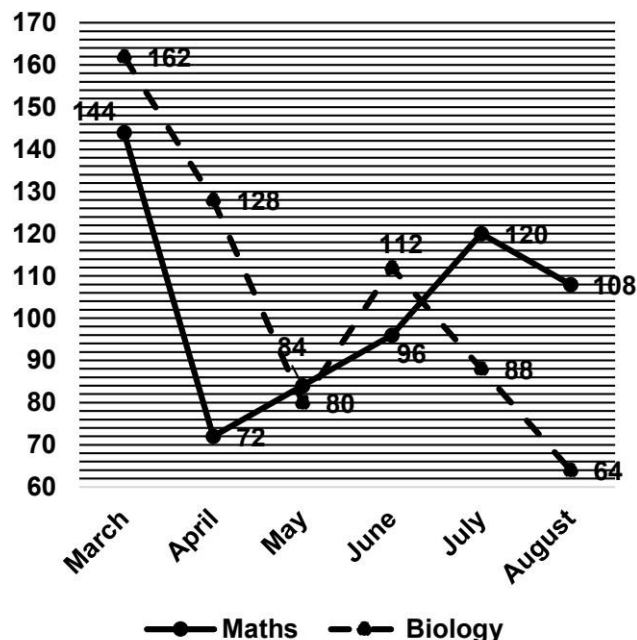
(A) 6 (B) 3
 (C) 2 (D) 7
 (E) 5

50. Two years ago, the ratio of Vani's age and Pihu's age was 19: 12. The ratio of Pihu's age 5 years hence and Jatin's age 7 years hence, will be 43: 60. If Jatin is 6 years younger than Vani, then what will be Vani's age after three years?

(A) 59 years (B) 64 years
 (C) 63 years (D) 60 years
 (E) 62 years

Directions (51 – 55): Read the following data carefully and answer the following questions:

Below line graph shows the number of books (in hundreds) of two subjects (Maths, and Biology) sold by a shopkeeper in six months (March, April, May, June, July, and August):

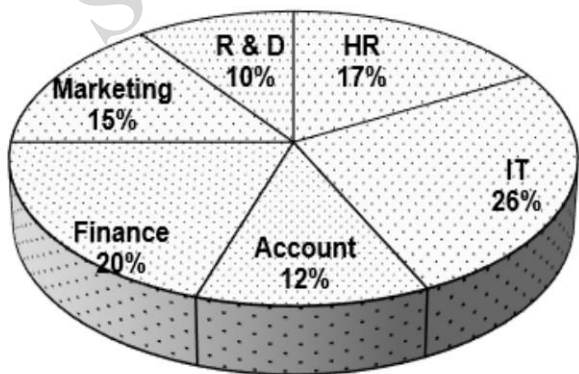


Note: The ratio of number of books of physics and maths sold in each month is 5: 4 and number of books of chemistry sold in each month is 200 hundred more than the number of books of biology sold in each month.

51. What is the ratio of number of books of physics sold in March to the number of books of chemistry sold in July?
(A) 5: 6 (B) 32: 27
(C) 16: 27 (D) 16: 15
(E) 5: 8
52. If the number of books of chemistry sold in September is 12/11 times of the number of books of chemistry sold in previous month, then the number of books of chemistry sold in September is how many more or less than the number of books of physics sold in August?
(A) 16600 (B) 17200
(C) 15600 (D) 15300
(E) 17600
53. The number of books of chemistry sold in April is what percentage more or less than the number of books of physics sold in July?
(A) 142.56% (B) 135.66%
(C) 118.66% (D) 128.56%
(E) 114.28%
54. The number of books of physics sold in February is 50% of the number of books of chemistry sold in April, then what is the number of books of physics sold in February?
(A) 16400 (B) 13200
(C) 13600 (D) 12400
(E) 16600
55. What is the average number of books of physics sold in March and May together?
(A) 14250 (B) 15200
(C) 13700 (D) 14710
(E) 14730

Directions [56-60]: Study the graph carefully and answer the following questions.

The following pie chart shows that percentage of employees working in different departments of company A in the year 2023. Total employees in company A in the year 2023 is 8000.



56. Find the difference between the employees working in the IT department and the employees working in (R&D) department in company A in the year 2023.
(A) 1260 (B) 1240
(C) 1280 (D) 1200
(E) 1300

57. If the ratio of employees working in the account department in Company A to employees working in the account department in company B is 4:5. Find the total number of employees working in the account department of company B.
(A) 1000 (B) 1200
(C) 1250 (D) 1050
(E) 1300
58. If percentage of employees working in company A in year 2024 increased by 20% than previous year and percentage distribution of employees in various department is same as in year 2023. Find the number of employees working in the marketing department in the year 2024.
(A) 1440 (B) 1420
(C) 1240 (D) 1460
(E) 1620
59. Find the ratio of the total number of employees working in the (HR) department in company A to the total number of employees working in the Finance department in company A.
(A) 3: 4 (B) 5:6
(C) 11:15 (D) 17:20
(E) 14:11
60. Find the average number of employees working in the (R&D) department and the account department together in company A.
(A) 880 (B) 860
(C) 890 (D) 900
(E) 850

English Language

Directions: (61-65): In the question given below, a set of sentences is given, which when properly sequenced, form a coherent paragraph. Arrange the sentences in the correct sequence, and answer the questions.

- P. Domestic market alliances are short-term and they focus on value appropriation.
Q. Domestic market alliances are individual partner driven, usually prioritising on individual process efficiency, whereas in an International Market Alliances (IMA), priority is given to a systematic, standardised and collective process improvement.
R. IMAs are long term and focus on value creation.
S. Domestic market alliances offer an easy and immediate exit, whereas IMAs are difficult to exit keeping in mind several regulatory challenges and the potential negative impact on shareholder value after dissolution.
T. Another key difference between domestic market alliances and IMAs is the ease of dissolution.
61. Which of the following would be THIRD the statement after rearrangement?
(A) Q (B) P
(C) R (D) S
(E) T
62. Which of the following would be FOURTH the statement after rearrangement?
(A) Q (B) P
(C) R (D) S

- (E) T
63. Which of the following would be SECOND the statement after rearrangement?
(A) Q (B) P
(C) R (D) S
(E) T
64. Which of the following would be FIRST the statement after rearrangement?
(A) Q (B) P
(C) R (D) S
(E) T
65. Which of the following would be FIFTH the statement after rearrangement?
(A) Q (B) P
(C) R (D) S
(E) T

Direction: (66-70): In the question given below, a sentence is given, divided into parts. One of the parts may contain an error. Identify the part that contains the error, and mark it as the answer. Ignore errors of punctuation. In case the sentence is correct as it is, mark option (e), that is, 'No error'. Note – The words in bold are grammatically and contextually correct.

66. A run on the lira proved a **pivotal** moment for Turkey's financial markets in 2018, prompting action from Ankara that has tilted the **economy** inward and frighten off foreign investors.
(A) A run on the lira proved a
(B) moment for Turkey's financial markets in 2018,
(C) prompting action from Ankara that has tilted the
(D) inward and frighten off foreign investors
(E) No error
67. India's dominant service industry began 2020 in a buoyant mood as activity accelerated in January in the fastest pace in **seven** years on strong domestic demand.
(A) India's dominant service industry began 2020
(B) a buoyant mood as activity
(C) accelerated in January in the fastest pace in
(D) years on strong domestic demand.
(E) No error
68. The swap market move was one of dozen of dictats **and** regulations to defend the lira, from setting deposit **rates** at lenders to tapping the central bank's reserves.
(A) The swap market move was
(B) one of dozen of dictats
(C) regulations to defend the lira, from setting deposit
(D) at lenders to tapping the central bank's reserves
(E) No error
69. Many Chinese consumers perceives **cars** with three-cylinder engines as noisier **and** prone to vibrating, and sales began to tumble in the third quarter of 2018.
(A) Many Chinese consumers perceives
(B) with three-cylinder engines as noisier
(C) prone to vibrating,
(D) and sales began to tumble in third quarter of 2018
(E) No error

70. Three-cylinder gasoline engines are cleaner **and** more fuel efficient than **their** conventional four-cylinder counterparts, and automakers are keen to promote them.
(A) Three-cylinder gasoline engines are cleaner
(B) more fuel efficient than
(C) conventional four-cylinder counterparts,
(D) and automakers are keen to promote them.
(E) No error
71. In the following question, three sentences are given, revolving around the same theme or idea. Decide which of the sentences are grammatically and meaningfully correct and mark the answer accordingly.
I. A British nail artist has claimed that hers designs have been stolen by a fast fashion giant.
II. She says not only have the firm copied her nail art, but it has also taken her own Instagram pictures without permission to advertise it.
III. She believes the fashion giant should have approached her to ask if it could sell the design and then pay her.
(A) Only II and III (B) Only III
(C) Only I and III (D) Only II
(E) All I, II, and III
72. In the following question, a sentence is given with certain words marked as (A), (B), (C), (D) and (E). Choose the options with the correct sequence of words to make the sentence grammatically and contextually correct. If no change is required, mark E 'No change required' as your answer.
Some people **helps** (A) that having a set time every **day** (B) - right before **morning** (C), first thing in the **bed** (D), just after a workout - **find** (E) establish a habit.
(A) DABCE (B) CEBDA
(C) EBDCA (D) ADCEB
(E) No change required.
73. There has been a **growing** interest in **leveraging** more **mature** artificial intelligence and machine learning models as cyberattacks become more **frequent** and threatening.
(A) growing (B) leveraging
(C) mature (D) frequent
(E) All are correct
74. In the following question, a sentence is given with four words marked as (A), (B), (C) and (D). Among the options, choose the correct order of words, that is required to make the sentence grammatically and contextually correct. If no rearrangement is required, mark (e) 'No rearrangement required' as your answer.
Since **time** (A) immemorial, humans have **determines** (B) over land, a scarce resource that **fought** (C) where people can grow food, build houses and live out their **days** (D) on planet Earth.
(A) ACDB (B) ACBD
(C) DABC (D) DBCA
(E) No rearrangement required

75. In the question below, a sentence is given with a portion underlined. Choose the best replacement for the underlined portion to make the sentence meaningful and grammatically correct.
Having seen the team play, I thought that it was their worse performance ever.
(A) their worst performance
(B) there worse performance
(C) the worse perform
(D) their worse perform
(E) No correction required
76. In the following question, a sentence is given with a phrase highlighted in bold. Select the option given below that can replace the phrase in bold to make the sentence grammatically and contextually correct and mark that as your answer. If the sentence is correct as it is, mark 'No correction required', as the answer.
The misuse of antimicrobials, along with other microbial stressors, **create favourite conditions** to microorganisms.
(A) creating favourite conditions to
(B) create conditions favourite to
(C) create appropriate condition for
(D) No correction required
(E) creates favourable conditions for
77. In the question given below, a sentence is given with two blanks, followed by five options, each having two words that may or may not fit in the blanks. From the given options, choose the one that has the correct pair of words to fit in the given blanks.
It was difficult and time-consuming, it involved some rather _____ self-examination, and it raised _____ suspicions of self-involvement, exhibitionism, and insufferable earnestness that I'd so far mainly _____ in life.
(A) Obsessive, nadir (B) Menace, penance
(C) Prejudiced, quell (D) Unpleasant, avoided
(E) Shrewd, resurrected
78. In the following question, one part of the sentence may have an error. Find out which part of the sentence has an error and select the appropriate option. If the sentence is free from error, select 'No Error'.
(A) There is a critical needed to
(B) accelerate on-ground measures for
(C) early diagnosis and management
(D) of mental illness in India.
(E) No error
79. In the following question, one part of the sentence may have an error. Find out which part of the sentence has an error and select the appropriate option. If the sentence is free from error, select 'No Error'.
(A) The Consumer Price Index measures
(B) the general prices of goods
(C) and services such that food,
(D) clothing, and fuel over time.
(E) No error
80. In the following question, a sentence is given which is divided into five parts. Part in bold is grammatically correct. Out of the other four parts, one part contains an error. Mark the option containing the part with the error. If none of the parts has error, mark 'No error' as your answer.
Later, while attempting to utilise (A)/ **the gas for the production of electricity** / by means of a Grove gas battery, (B)/ he noticed that it contained in it (C) / carbon monoxide combined with nickel. (D)
(A) A (B) C
(C) B (D) D
(E) No error
81. In the following question, one part of the sentence may have an error. Find out which part of the sentence has an error and select the appropriate option. If the sentence is free from error, select 'No Error'.
The reason to avoid spicy and deep-fried (A)/ foods is because they will leave (B)/ you thirsty in addition to making (C)/ you feel bloated and heavy. (D)/ No error (E)
(A) A (B) B
(C) C (D) D
(E) E
82. In the question below, a sentence is given with four words highlighted in bold. One of these four words may either be wrongly spelt or inappropriate in the context of the sentence. Find out the word, which is wrongly spelt or inappropriate, if any. If all the words are correctly spelled and appropriate in the context of the sentence, mark (E) as your answer.
Japan has been **grappling** with a **record outrage** of avian flu in recent months, putting **strain** on the supply of poultry.
(A) grappling (B) record
(C) outrage (D) strain
(E) All are correct
83. In the question that follows, a word has been given which is used in three different sentences. Choose the sentence(s) in which **the word or other form(s) of the word is correctly used** and mark that as your answer.
DISCRETE
I. Thanks to the Web, it is so easy to **discrete** shop for a toy.
II. Most have relied upon traditional methods for analysing jobs, by breaking them down into long lists of **discrete** skills.
III. The picture consists of a lot of **discrete** spots of colour.
(A) Only I and II (B) Only III
(C) Only I (D) Only II and III
(E) None of these
84. In the given question, a sentence has been broken into five parts and the parts are jumbled. Choose the option which provides the correct way to rearrange the parts to form a grammatically and contextually meaningful sentence.
A. research has shown that finding
B. out something good is going to happen causes
C. positive emotions and is associated
D. as when something good actually happens
E. with activity in similar brain areas

- (A) DACBE (B) ACDBE
(C) BACDE (D) CADBE
(E) ABCED

85. In the given question, a sentence has been broken into five parts and the parts are jumbled up. Choose the option that provides the correct order to rearrange the parts to form a grammatically and contextually meaningful sentence.

- A. millions of years ago
B. and later, water leached through the rocks
C. volcanoes deposited minerals
D. over vast tracts of South America
E. to form massive lakes and other water bodies

- (A) EDCAB (B) CBDEA
(C) BEDCA (D) ACDBE
(E) None of the orders is correct.

86. In the given question, a sentence has been broken into five parts and the parts are jumbled. Choose the option which provides the correct way to rearrange the parts to form a grammatically and contextually meaningful sentence.

- A. Days before the actual
B. Train ticket reservations for
C. long-distance travel can
D. Now be made even 120
E. Date of the journey

- (A) EDABC (B) BCDAE
(C) CBDEA (D) DEBAC
(E) ACEBD

Directions (87 – 92): In the following passage, some of the words have been left out and replaced by a blank represented by a letter. First, read the passage and try to understand what it is about. Then fill in the blanks as per the questions given.

Yellowstone National Park is in the states of Wyoming, Idaho, and Montana. It became the first National Park in 1872. There are A or hot springs at Yellowstone. There are also many animals at Yellowstone. There are elk, bison, sheep, grizzly bears, black bears, moose, coyotes, and more. More than 3 million people visit Yellowstone National Park each year. During the winter, visitors can ski or go snowmobiling there. There are also snow coaches that B tours. Visitors can see steam (vapour water) come from the geysers. During other seasons, visitors can go boating or fishing. People can ride horses there. There are natural C and tours. Most visitors want to see Old Faithful, a very predictable geyser at Yellowstone. Visitors can check a/an D to see the exact time that Old Faithful is going to erupt. There are many other geysers and boiling springs in the area. Great Fountain Geyser erupts every 11 hours. Excelsior Geyser produces 4,000 gallons of boiling water each minute! Boiling water is 100 degrees Celsius, or 212 degrees Fahrenheit - that's very hot! People also like to E the Grand Prismatic Spring. It is the largest hot spring in the park. It has many beautiful colours. The beautiful colours are F by bacteria in the water. These are forms of life that have only one cell. Different bacteria live in different water temperatures.

Visiting Yellowstone National Park can be a week - long vacation or more. It is beautiful, and there are activities for everyone.

87. Which of the following words can fit in the blank A?
(A) Geysers (B) Washers
(C) Lakes (D) Ablution
(E) Capsize

88. Which of the following words can fit in the blank B?
(A) Provides (B) Enchants
(C) Shows (D) Give
(E) Reflect

89. Which of the following words can fit in the blank C?
(A) Meander (B) Trails
(C) Tracking (D) Plod
(E) Amble

90. Which of the following words can fit in the blank D?
(A) Fixing (B) Organise
(C) Arrangements (D) Install
(E) Schedule

91. Which of the following word(s) can fit in the blank E?
Grasp, Sight, Watch, Perceive, Discern, See
(A) Grasp, Perceive, See
(B) See, Watch, Sight, Discern
(C) Watch, Perceive, Sight
(D) See, Watch
(E) See, Sight, Discern

92. Which of the following words can fit in the blank F?
(A) Submerge (B) Spawned
(C) Caused (D) Spreading
(E) Procreated

Directions [93 – 100]: Read the following passage carefully and answer the questions that follow.

Ant colonies are a family affair: Most of them have one queen, who is the only reproductive member of the clan, and the worker ants are her children. Queens usually can't be replaced. But new research shows that, with the Indian jumping species, vast numbers of worker ants will go through intense physiological changes to redevelop the ability to reproduce and throw in their hat for the crown. Contenders shrink their own brains by as much as 25 percent, minimise their venom sacs, and expand their ovaries while increasing their oocytes (or eggs) seven-fold. The findings were published in the journal Proceedings of the Royal Society B.

These transformer ants are called "gamergates" (the "gam" rhymes with "ham") - not to be confused with the 2014 internet campaign. In order to study their behaviour and physiology, scientists identified two gamergates in each of 30 Indian jumping ant colonies reared in the lab. They left one gamergate ant as it was, and reverted the other back to worker status through **solitary** isolation. Researchers then added the reverted gamergates back to their colonies, observing and comparing behavioural and physiological changes between the pairs.

The study authors found that isolated gamergate ants were able to revert back to worker physiology in just six to eight weeks. In that time their brains, venom sacs, and ovaries re-morphed to match their worker peers. That reversibility is remarkable. While other species like honeybees can change the volume of their brains, the Indian jumping ant is the first insect species known to be able to take back those changes. It's this ability that gives Indian jumping worker ants the chance to vie for royal status when a queen dies - and return to workers if they fail.

The showdown for the crown is a dominance tournament that can last up to 40 days and involve up to half of a colony's workforce. Out of this massive brawl emerge five to 10 pseudo-queens, gamergates who successfully duelled all the others with their antennae while undergoing their transformation. Eventually these winners develop pheromones to compel the colony to treat them like royalty, thus sealing their new status and allowing them to live the rest of their days as a group of ant baby-makers.

Becoming a gamergate likely requires brain shrinkage so that the ants can "divert additional resources to egg production, as brain tissue is metabolically expensive to maintain," write the authors. Their venom sacs decrease as well, since taking out deadly threats to the colony are not usually on a queen's agenda. On the flip side, when conceding the throne and reverting back to worker status, the brain and venom sacs need to expand again, since their functions are required to complete **foraging** tasks.

93. In the following question, out of the five alternatives, choose the one which best expresses the meaning of the word '**solitary**'.
- (A) Crowded (B) Lonesome
(C) Difficult (D) Brave
(E) Troublesome
94. In the following question, choose the word opposite in meaning to the word '**foraging**'.
- (A) Invigorating (B) Protecting
(C) Tough (D) Motivating
(E) Increasing

95. Which of the following can change the volume of brain?
- (A) Indonesian jumping ants
(B) Honey bee
(C) Insects
(D) Queen
(E) None of the above
96. According to the passage, isolated gamergate ants can change back to worker physiology in _____.
- (A) 6 to 8 days (B) 6 to 8 weeks
(C) 6 to 8 months (D) 6 weeks
(E) None of the above
97. Which of the following is **NOT TRUE** according to the findings published in the journal Proceedings of the Royal Society B?
- (A) Large numbers of worker ants undergo intense physiological changes to redevelop the ability to reproduce.
(B) Contender ants contract their own brains by as much as 25 percent.
(C) Contender ants reduce their venom sacs and contract their ovaries.
(D) Contender ants increase their eggs seven-fold.
(E) None of the above
98. Which of the following are referred as "gamergates"?
- (A) Contender ants (B) Queen bee
(C) Transformer ants (D) Indian jumping ants
(E) Honey bees
99. Which of the following is the likely requirement for becoming a gamergate?
- (A) Increase the number of venom sacs
(B) Increase in the number of ovaries.
(C) Seven-fold reduction in eggs.
(D) Brain shrinkage
(E) All of the above
100. The fight to become the queen ant can last up to _____.
- (A) 6-8 weeks (B) 40 days
(C) 25 days (D) 1 week
(E) 30 days

Space for rough work

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