Direction (1-5): *Read the given passage carefully and answer the questions that follow.*

When Hurricane Harvey loomed off the coast of my home state of Texas, it seemed to fill the entire Gulf of Mexico. When it roared on land, it pummelled the towns of Rockport and Port Aransas, whose tawny beaches I've walked with my kids, pointing out the indigo sails of Portuguese man o' war jellyfish. Harvey's eye took direct aim at the University of Texas' Marine Science Institute, flattening not just the facility itself, but priceless samples awaiting analysis. After Harvey left Port Aransas, it spun back into the Gulf of Mexico over record sea temperatures as great as 4 degrees Fahrenheit above normal. Thermodynamic laws require that warmer air holds more water vapor. The heat armed the storm with a mighty arsenal of water vapor. Then Harvey returned to land, dumping a catastrophic amount of rain on Houston. My Facebook feed filled with pleas for rescue from the rising waters. Friends' houses flooded — houses that had always been on dry land before. A chemical plant blew up, twice. Toxic chemicals oozed from Superfund sites. Dozens died in the deluge, mostly by drowning. And all the while, alongside the heartbreak and horror, I kept thinking about a strange harbinger: jellyfish. Diaphanous in form yet menacing in sting, jellyfish have a powerful capacity to capture our imagination. They undulate in a primal rhythm, blinking open and closed like eyes that can peer into the soul of the sea. And what they are seeing are changes produced by us here on land. Because we burn fossil fuels, which release greenhouse gasses, not just the atmosphere but ocean waters are warming. At the same time, our ship traffic transports animals to new places, and sometimes these exotics find home-like conditions where in the past those conditions would have been unsuitable. That's likely what happened off the coast of Italy, where gas platforms are thought to be the home for a new invasion of jellyfish. In the twentieth century in the Adriatic Sea, moon jellies, pinkish with their characteristic four-leafed clover on top, were a rarity. Now they are ubiquitous. And as we wash pollution into our waters, we create low oxygen environments. Some jellyfish, with their low metabolic rate due to their a-cellular jelly insides, can survive more easily there than fish, with theiroxygen-guzzling muscled tissues. The fierce stings of these animals chase beach-goers out of the water. Their gooey bodies clog machinery at power plants, halting operations. Rampant coastal development provides new habitat for a jellyfish stage called a polyp that looks like a sea anemone. When it finds a hard surface like a dock or a jetty to grow on, a single polyp can proliferate into a dozen or even more medusae.

And fields of polyps grow on those hard structures. And our lack of oversight of the fishing industry, which has removed more than 90% of the large fish from the seas, has depleted the predators of jellyfish as well as their competitors. Jellyfish are eaten by some fish, and jellyfish eat the same small zooplankton that fish do. The ecological vacuum left by unrestrained fishing can allow jellyfish to expand their influence in marine ecosystems. That's what happened off the coast of Namibia, once one of the world's most productive fisheries.

1. Jellyfish can survive in polluted water better than other fishes. Why?
   I. They have oxygen gulping muscled tissues.
   II. They have low metabolic rate.
   III. They eat zooplankton for survival.
   A. Only I   B. Only II
   C. Both I and II   D. Both II and III
   E. All are correct

2. Why Hurricane Harvey is termed as devastating?
   A. Many houses got flooded during the hurricane.
   B. Many people died due to drowning.
   C. Toxic chemicals got released from superfund sites.
   D. Chemical plants got blown up.
   E. All of the above

3. What is the main idea of the passage?
   A. Jellyfish is an endangered species.
   B. Low oxygen content due to water pollution has caused changes in aquatic ecosystem.
   C. Informing some unknown facts about jellyfish.
   D. Destruction caused by Hurricane Harvey.
   E. How to improve ecological balance.

4. Pick up the fact(s) about Jellyfish that is(are) related with Namibia.
   A. Low oxygen content has caused reduction in the number of jellyfish.
   B. Jellyfish can extensively increase their population in case of ecological imbalance.
   C. Unregulated fishing activities has led to a stark decrease in number of Jellyfish predators.
   D. Both B and C.
   E. All are correct

5. Which of the following statement(s) is(are) true in the context of the given passage?
   A. Moon Jellyfish is found in Yellow sea where pollution is unchecked.
   B. Hurricane Harvey with strong winds battered the entire Gulf of Mexico.
   C. Jellyfish sweeping from China have afflicted Japan's coast.
   D. Jellyfish survive more than other fishes in low oxygen environment.
   E. Only B and D

6. The bank officials have been found_____of taking bribes.
   a) Receptive
   b) Guilty
   c) Probable
   d) Accurate
   A. a-c   B. b-c
   C. a-d   D. c-d
   E. a-b

7. The Defence Minister decided to give a briefing about the increased military _____ in the contemporary times.
   a) Requirements
   b) Threats
   c) Assistance
   d) Assumptions
   A. a-d   B. b-c
   C. a-b   D. b-d
   E. a-c

8. The neighbours decided to come_____after seeing the Christmas decoration being set up in the alley.
   a) Across
   b) On
   c) Over
   d) About
   A. b-d   B. a-c
   C. c-d   D. a-b
   E. b-c

9. As the Governor_____the officials to abolish the redundant act, the established system got disrupted.
   a) Asked
   b) Requested
   c) Ordered
   d) Inquired
   A. b-c   B. a-c
   C. b-d   D. a-b
   E. a-d

10. The waiter came to our table and asked if we wanted_____coffee, as it was closing time for the cafe.
    a) Much
    b) More
    c) Small
    d) Some
    A. a-b   B. b-c
    C. b-d   D. c-d
    E. a-d

11. The country's diplomatic history is filled with instances of_____people coming together to counter challenges.

    a) Powerful
    b) Insightful
    c) Approximate
    d) Lethargic
    A. b-d   B. a-c
    C. a-b   D. b-c
    E. a-d

12. In the latter decades of the last century, it was noted that racism was_____acknowledged by those in power.
    a) Virtually
    b) Speculatively
    c) Strongly
    d) Hardly
    A. a-b   B. c-d
    C. a-c   D. b-d
    E. b-c

13. Looking at the state of disorder, the veterans often _____ about the fading relevance of their sacrifices during the great war.
    a) Stuff
    b) Suit
    c) Wonder
    d) Think
    A. a-c   B. b-d
    C. a-d   D. c-d
    E. b-c

14. The contract for the dam was being heavily contested_____the major construction giants on the continent.
    a) By
    b) Among
    c) Across
    d) Over
    A. a-b   B. b-c
    C. b-d   D. a-c
    E. a-d

15. The Election Commission decided to_____its authority after receiving complaints of malpractices during the poll campaigns.
    a) Ease
    b) Use
    c) Exercise
    d) Ascertain
    A. a-c   B. b-c
    C. b-d   D. a-b
    E. a-d

16. The company was keen at **cutting down** on the employee overheads in order to make the business profitable.
    A. Reduce   B. Spike
    C. Ensure   D. Elongate
    E. Affiliate

17. It was difficult to **put up with** the nagging relatives during the growth years.
   A. Decorate   B. Issue
   C. Endure   D. Richochet
   E. Prioritise

18. The commissioner advised the fugitives **to turn in** themselves to get some legal respite.
   A. Lessen   B. Accentuate
   C. Retard   D. Liberate
   E. Surrender

19. Aniket was willing to **go overboard** for receiving a scholarship to pursue higher education overseas.
   A. Remove   B. Stretch
   C. Incur   D. Liquidate
   E. Enhance

20. The central bank was of the idea that it was not suitable **to bail out** the ailing cooperatives.
   A. Depart   B. Alter
   C. Entertain   D. Reverse
   E. Rescue

   Direction (21-30): *The given question contains one statement that is divided into five parts, out of which the first part is correct. There is some error in the three of the remaining four parts of the statement, while one part is correct. The correct part is your answer. In case all the parts are incorrect, the last option is your answer.*

21. **The trouble with**/ mental illness are/ that it is rarely/ diagnosed latter than/ it should suitably be.
   A. mental illness are
   B. that it is rarely
   C. diagnosed latter than
   D. it should suitably be
   E. All are incorrect

22. **Recurrence of scams**/ in the recent/ decades can be credited by/ the increasing in/ the bureaucratic lenient.
   A. in the recent
   B. decades can be credited by
   C. the increasing in
   D. the bureaucratic lenient
   E. All are incorrect

23. **The proactive approach of**/ a city authorities / have led to the reduction/ with unwanted federal expenses/ in tax collection.
   A. a city authorities
   B. have led to the reduction
   C. with unwanted federal expenses
   D. in tax collection
   E. All are incorrect

24. **It has always been**/ difficult with the political/ machinery to meshing with/ the judiciary because/ of the conflicts of interest.
   A. difficult with the political
   B. machinery to meshing with
   C. the judiciary because
   D. of the conflicts of interest
   E. All are incorrect

25. **My driver revved the engine**/ hard in an attempt to increasing/ the available power over/ the engine, but failed/ due to the favorable weather.
   A. hard in an attempt to increasing
   B. the available power over
   C. the engine, but failed
   D. due to the favorable weather
   E. All are incorrect

26. **There has been**/ a unprecedented increase in/ the number of adoption/ requests into the last/ few years of collect statistics.
   A. a unprecedented increase in
   B. the number of adoption
   C. requests into the last
   D. few years of collect statistics
   E. All are incorrect

27. **The incumbent Greek government**/ is willing to make most sacrifices/ than their predecessors in/ order to impress financial/ situation in the troubled economics.
   A. is willing to make most sacrifices
   B. than their predecessors in
   C. order to impress financial
   D. situation in the troubled economics
   E. All are incorrect

28. **Removing the trash from**/ the street was being always/ consideration a prerequisite/ for improvement the overall/ ambience of the city.
   A. the street was being always
   B. consideration a prerequisite
   C. for improvement the overall
   D. ambience of the city
   E. All are incorrect

29. **Referring to the attention**/ received for the pilot project,/ the district collector commemoration / the social workers involved in/ the execution of an crucial plan.
   A. received for the pilot project
   B. the district collector commemoration
   C. the social workers involved in
   D. the execution of a crucial plan
   E. All are incorrect

30. **Living under the shadow**/ of the revolting must have/ has deteriorating effect in/ the personalities of the childrens/ growing over these years.
   A. of the revolting must have
   B. has deteriorating effect on
   C. the personalities of the childrens
   D. growing over these years
   E. All are incorrect

31. Direction: What should come in the place of question mark (?) in the following number series?
   24, 25, ?, 41, -8, 73
   A. 13   B. 16
   C. 25   D. 43
   E. 50

32. Direction: What should come in the place of question mark (?) in the following number series?

7, 10, 16, 28, ?, 100

A. 34   B. 40
C. 52   D. 60
E. 78

33. Direction: What should come in the place of question mark (?) in the following number series?

9, 11, 16, 26, ?, 69

A. 31   B. 38
C. 43   D. 45
E. 46

34. Direction: What should come in the place of question mark (?) in the following number series?

3, 4, 10, 33, 136, ?

A. 150   B. 298
C. 463   D. 572
E. 685

35. Direction: What should come in the place of question mark (?) in the following number series?

2, 3, 6, 15, 45, ?

A. 90   B. 135
C. 157.5   D. 200
E. 225

Directions (36-40): *Study the following Table and answer the questions given below.*

Number of books sold in different shops in different years. (in thousands)

Years	P	Q	R	S	T
			Books sold		
2000	9.20	8.75	15.5	4.2	9.1
2001	10.50	12.6	13.5	13.3	5.9
2002	18.8	6.20	7.5	2.3	7.5
2003	25.5	14.4	5.6	6.3	5.8
2004	10.25	7.40	16.3	5.2	13.7
2005	17.15	15.7	13.5	12.5	4.8

36. What was the respective ratio between the Books sold in Shop P to Shop S in the year 2005?
A. 243:250   B. 343:250
C. 204:211   D. 104:115
E. None of these

37. What was total number of Books sold in shop R in all the years together?
A. 61800   B. 42400
C. 71900   D. 72800
E. None of these

38. Which Shops sold maximum number of Books in all the years together?
A. P   B. Q
C. R   D. T
E. None of these

39. What was the difference between the numbers of books sold in shop T in 2001 and In Shop S in the year 2003?
A. 600   B. 900
C. 400   D. 450
E. None of these

40. What was the total number of books sold in Shop Q in 2003, 2004, and 2005?
A. 36500   B. 38500
C. 37500   D. 39000
E. None of these

41. **Direction:** What value should come in place of the question mark (?) in the following question?

$12.5 \times 14 \div 8.75 + 42 = 50 + ?$

A. 18   B. 12
C. 32   D. 42
E. 65

42. **Directions:** What value should come in place of question mark (?) in the following question?

150% of 460 + 34% of 650 = ?

A. 857   B. 846
C. 895   D. 825
E. 867

43. **Directions:** What value should come in place of question mark (?) in the following question?

$44^2 + 23^2 = (?)^2 + 4^4$

A. 47   B. 65
C. 52   D. 41
E. 87

44. **Direction:** What will come in place of the question mark (?) in the following question?

$504 \div 42 \times 7 - 63 + 28 = ?$

A. 72   B. 48
C. 62   D. 38
E. None of these

45. **Direction:** What value should come in place of the question mark (?) in the following question?

$68 \times \sqrt{?} - 3421 = 591$

A. 3249   B. 3481
C. 3364   D. 3136
E. None of these

46. **Direction:** What value should come in place of the question mark (?) in the following question?

$(?)^2 \% \text{ of } 650 = (20)^2 + (4)^2$

A. 8   B. 64
C. $\sqrt{8}$ D. $(64)^2$
E. 32

47. **Direction:** What value should come in place of the question mark (?) in the following question?

$$\frac{5^2 \times 14 + 1450}{18} = 1998 \div ?$$

A. 18.25   B. 19.98
C. 34.58   D. 65.25
E. 45.85

48. **Direction:** What should come at the place of question mark (?) in the following question?

$$4\frac{3}{7} + 2\frac{1}{6} - 4\frac{1}{3} = ? - 2\frac{3}{4}$$

A. 2.79   B. 5.01
C. 4.29   D. 6.36
E. 3.96

49. **Direction:** What value should come in place of the question mark (?) in the following question?

$$325 - (12)^2 + 75 = (?)^2 - 68$$

A. $\sqrt{18}$ B. 324

C. 18   D. $(324)^2$

E. $\sqrt{314}$

50. **Direction:** What value should come in place of the question mark (?) in the following question?

534.596 + 61.472 - 496.708 = ? + 27.271

A. 126.631   B. 62.069
C. 72.089   D. 132.788
E. None of these

51. **Direction:** What value should come in place of the question mark (?) in the following question?

$$\sqrt{529} * 6 / 2 * ? = 14076$$

A. 204   B. 251
C. 102   D. 146
E. 129

52. **Direction:** What value should come in place of the question mark (?) in the following question?

1637 + 1832 = $(45)^2$ + $(?)^2$

A. 38   B. 42
C. 46   D. 54
E. 50

53. **Direction:** What value should come in place of the question mark (?) in the following question?

$$264 \div \sqrt{576} + (11)^2 + 12 = (?)^2$$

A. 44   B. 12
C. 15   D. 14
E. None of these

54. **Directions:** What value should come in place of question mark (?) in the following question?
69÷3×0.85+24.5-13.8=?
A. 31.75   B. 30.25
C. 28.95   D. 35.25
E. 37.95

55. **Directions:** What will come in place of question mark (?) in the following question?

$$\frac{3}{4} \text{ of } \frac{3}{5} \text{ of } \frac{2}{3} \text{ of } ? = 3174$$

A. 10550   B. 10540
C. 10580   D. 10500
E. None of these

56. Two items A and B have equal cost price. Item A is sold at 40% profit and item B is sold at an amount 20% less than the selling price of item A. If the total profit is 156 Rs then find the cost price of A.
A. Rs. 300   B. Rs. 350
C. Rs. 400   D. Rs. 450
E. None of these

57. Of three positive numbers, the ratio of the first and second numbers is 3:4 & that of the second and third numbers is 5:6. The product of the second and third numbers is 4320. What is the sum of three numbers?
A. 167   B. 177
C. 187   D. 197
E. None of these

58. The ratio of the speed of a boat downstream and speed of the stream is 9:1. If the speed of the current is 3 km per hr, find the distance travelled by the boat upstream in 5 hours.
A. 100 km   B. 98 km
C. 109 km   D. 105 km
E. 112 km

59. The difference between the simple interest obtained by investing Rs. 'X' with 8% per annum for an year and by investing Rs. 'X+1400' with 8% per annum for two years is 240 Rs. Find the value of X.
A. 200   B. 100
C. 400   D. 300
E. None of these

60. Average age of A and B, 2 years ago was 26. If the age of A, 5 years hence is 40 years, and B is 5 years younger to C, then find the difference between the age of A and C?
A. 6   B. 9
C. 12   D. 15
E. 18

61. The average of X, Y, Z is 24. Also, X:Y = 2:3 and X+Y = 60, then find the value of (X-Z)
A. 9   B. 10
C. 11   D. 12
E. None of these

62. The length of a rectangle is 80% of the diagonal of a square of area 1225 cm², then find area of rectangle if it's perimeter is 94√2 cm
    A. 1064 cm²   B. 1077 cm²
    C. 1081 cm²   D. 1090 cm²
    E. None of these

63. The annual salary of Arun is 7.68 lac. If he spends Rs. 12000 on his children, 1/13th of rest of the salary on food and Rs. 8000 in mutual funds, then find the monthly saving he is left with.
    A. Rs. 38000/-   B. Rs. 39500/-
    C. Rs. 40000/-   D. Rs. 41250/-
    E. Rs. 45000/-

64. A can do a work in 24 days. B is 20% more efficient than A. If C can do the work in 10 more days than B, find the time taken by A and C together to complete the work.
    A. 43/3 days   B. 40/3 days
    C. 50/3 days   D. 41/2 days
    E. None of these

65. The ratio of milk to water is 5:4. If two litres of water is added, the ratio becomes 10:9, then find the new amount of water in the mixture.
    A. 12 litres   B. 14 litres
    C. 16 litres   D. 17 litres
    E. 18 litres

Direction (66-70): *Study the following information carefully and answer the questions.*

A building has eight floors numbered one to eight, in such a manner that the ground floor is numbered one, the floor above it, numbered two and so on such that the topmost floor is numbered eight. One of the eight persons, viz, P, Q, R, S, T, U, V and W lives on each floor. R lives on third numbered floor. Only two persons live between the floors of R and V. W lives on the floor immediately above the floor of Q. Only one person lives between the floors of T and U. T lives above U. Only one person lives between the floors of R and S. S lives on any floor below the floor of T.

66. Who among the following lives on the fifth numbered floor?
    A. S   B. Q
    C. W   D. P
    E. V

67. Who among the following lives exactly between the floors of R and S?
    A. U   B. P
    C. V   D. T
    E. W

68. Who among the following lives on the topmost floor?
    A. T   B. Q
    C. W   D. R
    E. V

69. Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?
    A. R   B. V
    C. P   D. S
    E. Q

70. How many persons live between the floors of Q and U?
    A. None   B. One
    C. Two   D. Three
    E. Four

Direction (71-75): *The question has two statements followed by two conclusions numbered I and II. You have to take the two 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 given statements disregarding commonly known facts.*

71. **Statements:**
    All buses are car.
    Some buses are trucks.
    Conclusions:
    I. Some buses are definitely not trucks.
    II. At least some trucks are cars.

    A. Only conclusion I follows.
    B. Only conclusion II follows.
    C. Either conclusion I or II follows.
    D. Neither conclusion I nor II follows.
    E. Both conclusions I and II follow.

72. **Statements:**
    Some animals are plants.
    All plants are rocks.
    Conclusions:
    I. All plants are animals.
    II. At least some rocks are animals.

    A. Only Conclusion I follows
    B. Only Conclusion II follows
    C. Either Conclusion I or II follows
    D. Neither Conclusion I or II follows
    E. Both Conclusion I and II follow

73. **Statement:**
    No pin is a clip.
    All pins are fans.
    Conclusions:
    I. All fans are pins.
    II. No clip is a fan.

    A. Only conclusion I follows
    B. Only conclusion II follows
    C. Either I or II follows
    D. Neither I nor II follows.
    E. Both I and II follows.

74. **Statements:**
Some kites are birds.
No kite is an aeroplane.
Conclusions :
I. All aeroplanes are birds.
II. Some birds are definitely not kites.
A. Only conclusion I follows
B. Only conclusion II follows
C. Either I or II follows
D. Neither I nor II follows.
E. Both I and II follows.

75. **Statements:**
All metals are plastics.
All plastics are fibres.
Conclusions:
I. At least some fibres are metals.
II. Some metals are not fibres.
A. Only conclusion I follows
B. Only conclusion II follows
C. Either I or II follows
D. Neither I nor II follows.
E. Both I and II follows.

Direction (76-80): *Study the following arrangement of numbers, letters, and symbols carefully and answer the questions.*

I 4 M 6 % 1 R O # 9 @ G W S 2 U $ *8 7 C E 3 ©
K 5

76. How many such numbers are there in the above arrangement each of which is immediately followed by a vowel but not immediately preceded by a number?
A. None   B. One
C. Two   D. Three
E. More than three

77. Four of the following five are alike in a certain way on the basis of their positions in the above arrangement and so form a group. Which is the one that does not belong to that group?
A. M1%   B. U8*
C. G2S   D. 35K
E. C©E

78. Which of the following is seventh to the right of fifteenth from the right end?
A. 8   B. G
C. 7   D. C
E. None of these

79. How many such symbols are there in the above arrangement, each of which is immediately followed by a consonant and also immediately preceded by a number?
A. None   B. One
C. Two   D. Three
E. More than three

80. If all the symbols are dropped from the above arrangement which of the following will be eight from the left end?
A. G   B. R
C. O   D. 9
E. None of these

Direction (81-85): *In these questions, relationship between different elements is shown in the statements. These statements are followed by two conclusions.*

81. **Statement:** P ≤ Q = R > S > T
Conclusions:
I. P < T
II. T < Q
A. Only conclusion I follows
B. Only conclusion II follows
C. Either conclusion I or II follows
D. Neither conclusion I nor II follows
E. Both conclusion I and II follows

82. **Statement:** L ≤ M < N > O = P
Conclusion:
I. P < N
II. O < M
A. Only conclusion I follows
B. Only conclusion II follows
C. Either conclusion I or II follows
D. Neither conclusion I nor II follows
E. Both conclusion I and II follows

83. **Statement:** J > K ≤ L = M < N
Conclusions:
I. K < N
II. K < M
A. Only conclusion I follows
B. Only conclusion II follows
C. Either conclusion I or II follows
D. Neither conclusion I nor II follows
E. Both conclusion I and II follows

84. **Statement:** P ≤ Q = R, T > R = S
Conclusions:
I. P = S
II. P < S
A. Only conclusion I follows
B. Only conclusion II follows
C. Either conclusion I or II follows
D. Neither conclusion I nor II follows
E. Both conclusion I and II follows

85. **Statement:** P ≤ Q = R, T > R = S
Conclusions:
I. Q < T
II. P < S
A. Only conclusion I follows
B. Only conclusion II follows
C. Either conclusion I or II follows
D. Neither conclusion I nor II follows
E. Both conclusion I and II follows

Direction (86-90): *Study the information given below and answer the question based on it.*

Eight persons A, B, C, D, E, F, G and H are sitting around a circular table and facing the centre. They earn different salaries i.e. 12000, 15000, 17000, 18000, 21000, 22000, 26000 and 32000, but not necessarily in the same order. D sits third to the left of A who earns 12000. The one who earns 18000 is neighbor of A. F earns 4000 more than G. Two persons sit between the one who earns 18000 and H. B earns 17000 and sits immediate left of D. G and C are neighbours and earn total 33000. F is neighbor of A and the one who earns the highest. D earns more than E. The one who earns 21000 sits 2nd to the right of the one who earns 18000.

86. Who among the following earns the highest?
   A. F   B. C
   C. H   D. G
   E. D
87. Which of the following combination is correct?
   A. D-21000   B. C-18000
   C. G-18000   D. G-15000
   E. F-21000
88. Which of the following pair is sitting opposite?
   A. B and C   B. C and H
   C. A and E   D. E and H
   E. G and B
89. Who is sitting exactly between G and E?
   A. The one who earns 18000.
   B. A
   C. F
   D. The one who earns 15000
   E. B
90. How many persons are earning more than D?
   A. None   B. 1
   C. 2   D. 3
   E. 4

Directions (91-95): *Study the information given below and answer the questions based on it.*

OTM   NSP   AKG   BCE   LTR

91. If all the alphabets in each word are arranged in reverse English alphabetical order then which of the following word comes first in reverse English alphabetical order?
   A. OTM   B. NSP
   C. AKG   D. BCE
   E. LTR
92. If in each of the words, the first alphabet is changed to previous alphabet according to English alphabetical series and last alphabet is changed to the next alphabet according to English alphabetical series so in how many words there is no vowel in that particular word?
   A. 0   B. 1
   C. 2   D. 3
   E. 4
93. If the second letter is replaced with an alphabet which succeeds the second alphabet is English

alphabetical order and the last letter is replaced with an alphabet which precedes the last letter in English alphabetical order then how many words will have repeated alphabets?
   A. 0   B. 1
   C. 2   D. 3
   E. 4
94. If in each of the words, we sum all the alphabets number according to their position in English alphabetical series (i.e. A=1) so which of the following get the highest number?
   A. OTM   B. NSP
   C. AKG   D. BCE
   E. LTR
95. If in each of the words, all the consonants are replaced with an alphabet which succeeds that consonant in English alphabetical order and all the vowels are replaced with an alphabet which precedes that vowel in English alphabetical order then how many words will be there with at least two vowels?
   A. 0   B. 1
   C. 2   D. 3
   E. 4

Direction (96-100): *Study the following information carefully and answer the questions.*

Eight persons M, N, O, P, Q, R, S and T are sitting in a straight line. Four of them are facing north and four of them are facing south. Only three persons sit between M and N and N is sitting at one of the ends. O is 2nd to the right of M and facing north. Q is 3rd to the right of O. More than two persons sit between Q and R. T is 2nd to the left of R. P is 2nd to the right of Q. More than two persons sit between T and N. M's neighbours are facing same direction. Q's neighbours are facing same direction. P's neighbours are facing opposite directions.

96. Who among the following sits at the corner?
   A. R   B. Q
   C. S   D. T
   E. P
97. Who among the following is not belongs to the group?
   A. R   B. M
   C. S   D. Q
   E. P
98. How many persons sit between Q and R?
   A. None   B. 1
   C. 2   D. 3
   E. 4
99. Who among the following is 3rd to the left of S?
   A. No one   B. M
   C. Q   D. T
   E. R
100. Who among the following exactly between M & O?
   A. T   B. R
   C. P   D. N
   E. Q

Solutions

1. Ans. D
The first two statements have been mentioned at the end of the first paragraph. While the third paragraph too finds its mention in the second paragraph, it is not a reason for the better survival rate of the Jellyfish, so the correct response is option D.

2. Ans. E
The devastating effects of the hurricane have been mentioned in the first paragraph. All the options have been mentioned in the first paragraph and thus the correct response is option E which includes all the given statements.

3. Ans. B
The passage has been wound around the fact that the water pollution has led to changes in the established ecosystem. Taking the example of the jellyfish, the author has mentioned that the aquatic ecosystem is changing, thus the correct response is option B.

4. Ans. C
All the mentioned facts find place in the passage but the only fact that is related with Namibia is the fact that the number of predators of Jellyfish has reduced drastically leading to a great spike in their numbers.

5. Ans. E
Statement B has been mentioned at the starting of the first paragraph.
Statement D has been discussed in the middle of the first paragraph.
Thus, the correct response is option E as it combines both the statements.

6. Ans. B
Receptive means willing to consider or accept new suggestions and ideas.
Guilty means justly chargeable with a particular fault or error.
Probable means a person who is likely to become or do something, especially one who is likely to be chosen for a team.
Accurate means (with reference to a weapon, missile, or shot) capable of or successful in reaching the intended target.
The context is that the bank officials either have been found to take bribes or are likely to take bribes, so the correct response is b-c.

7. Ans. C
The suitable contexts here are that here are that there are military dangers and needs. Thus, the correct response is a-b.

8. Ans. C
Two phrases can be used here:'Come over' meaning to visit casually or 'come about' meaning to arrive. So, the correct response will be a-d.

9. Ans. B
According to the general chain of command, the Governor usually gives orders. Thus, the only relevant contexts will be a-c.

10. Ans. C
Here the context is of coffee which is an uncountable item and thus can't use 'much' or 'small' to explain its quantity. This leaves b-d as the only relevant options.

11. Ans. C
Insightful means having or showing an accurate and deep understanding; perceptive.
Approximate means close to the actual, but not completely accurate or exact.
Lethargic means affected by lethargy; sluggish and apathetic.
'Approximate' is not a suitable adjective when talking about people. 'Lethargic' is contextually incorrect as this kind of people are generally not able to make any changes to the society. So, the correct response is a-b.

12. Ans. B
Virtually means nearly; almost.
Speculatively means theoretical rather than demonstrable.
Strongly means with great power or strength.
Hardly means scarcely (used to qualify a statement by saying that it is true to an insignificant degree).
Here the possible contexts can be of racism being either very strongly or scarcely acknowledged. Thus, the correct response is c-d.

13. Ans. D
The context is of the veterans being doubtful of the relevance of the sacrifices. Only, 'think' and 'wonder' suit this context. Thus, the correct response is c-d.

14. Ans. A
Here the choice of preposition needs to be made. The context is of the contest being between major construction giants, thus 'by' and 'among' are the two contextually suitable fillers. 'By' gives the sense of associativity and 'among' can be used to pick from the pool of the contenders.

15. ns. B
Ease means the act of making things easy.
Ascertain means find (something) out for certain; make sure of.
These two do not fit in the context of the statement.
So, the correct response is b-c.

16. Ans. A
The phrase 'cutting down' is used to show the reduction from the previous value. Thus the correct response is option A.

17. Ans. C
'To put up with' means to tolerate or endure. Thus the correct response is option C.
Richochet means a shot or hit that rebounds off a surface.

18. Ans. E
The phrase 'to turn in' means to surrender. So, the correct response is option E.
Accentuate means make more noticeable or prominent.
Retard means delay or hold back in terms of progress or development.
Liberate means set (someone) free from imprisonment, slavery, or oppression

19. Ans. B
'To go overboard' means be very enthusiastic. So, the correct response is option B which means to overstretch oneself.

20. Ans. E
'To bail out' means to rescue someone from a difficult situation. So, the correct response is option E.

21. Ans. D
The second part is incorrect because of the plural helping verb 'are' while the noun is singular.
The third part is incorrect because it gives incorrect meaning. 'Rarely' needs to be replaced with 'generally'.
The fourth part is incorrect because 'latter' is the incorrect word usage here. It needs to be replaced with 'later'.
The fifth part ha no error.

22. Ans. A
The third part is incorrect because of the wrong preposition use. 'By' needs to be replaced with 'to'.
The fourth part is incorrect because of the incorrect form of the verb. 'Increasing' needs to be replaced with 'increase'.
The fifth part is incorrect as 'lenient' is the adjective form while the correct usage is adverb form which is 'leniency'.

23. Ans. D
The second part is incorrect because of the wrong article usage. 'A' needs to be replaced with 'the'.
The third part is incorrect becauuse the subject here is 'approach' which is singular and thus will take a singular helping verb i.e. 'has'.
The fourth part is incorrect because of the wrong preposition usage. 'With'' needs to be replaced by 'in'.
The fifth part has no error.

24. Ans. C
The second part is incorrect because of the incorrect usage of the preposition. 'With' needs to be replaced by 'for'.
The third part is incorrect because of the incorrect form of verb. 'Meshing' needs to be replaced with 'mesh'.
The fifth part is incorrect because of the incorrect phrasal usage. It should be 'conflicts of interests'.
The fourth part is free from error.

25. Ans. C
The second part is incorrect because of the incorrect form of the verb. 'Increasing' needs to be replaced with 'increase'.
The third part is incorrect because of the wrong preposition usage. 'Over' needs to be replaced with 'to'.
The fifth part is incorrect because it fails to provide proper meaning. 'Favorable weather' is not likely to cause the engine to fail; it has to be 'unfavorable'.

26. Ans. B
The second part is incorrect because of the incorrect article. 'A' needs to be replaced with 'an'.
The fourth part is incorrect because of the wrong preposition usage. 'Into' needs to be replaced with 'in'.
The fifth part is incorrect because of the incorrect framing. It should be 'collected statistics' instead of the 'collect statistics'.

27. Ans. B
The second part is incorrect because of the wrong usage of 'most'. The correct comparison degree would be 'more'.
The fourth part is incorrect because 'impress' does not make any sense in the context of the statement. It should be replaced with 'improve'.
The fifth part is incorrect because of the incorrect use of the word 'economics'. It needs to be replaced with 'economy'.
There is no error in the third part.

28. Ans. D
The second part is incorrect because of the wrong structure. 'Was' needs to be omitted.
The third part is incorrect because we require a verb here instead of a noun. 'Consideration' needs to be replaced with' considered'.
The fourth part is incorrect because 'improvement' is a verb but we need a verb here. Thus 'improving' needs to be used.
The fifth part is free from error.

29. Ans. C
The second part is incorrect because of the wrong preposition usage. 'For' needs to be replaced with 'by'.
The third part is incorrect because of the wrong structure. 'Commemoration' is a noun' which needs to be replaced with 'commemorated' which is a verb.
The fifth part is incorrect because of the incorrect article usage' 'An' needs to be replaced with 'a'.
The fourth part is free from any error.

30. Ans. D
The second part is incorrect because we need the noun 'revolt' instead of the verb form 'revolting'.
The third part is incorrect because of the wrong preposition usage. 'In' needs to be replaced with 'on'.
The fourth part is incorrect because of the wrong spelling 'childrens'. It should be replaced with 'children'.
The fifth part is free from any error.

31. Ans. B
The pattern followed is $+1^2, -3^2, +5^2, -7^2, +9^2$

32. Ans. C
The pattern followed is +3 , +6 , +12 , +24 , +48

33. Ans. C
Double Difference pattern is followed in the above series.
+2, +5, + 10, +17, +26

34. Ans. E
The pattern followed is *1 + 1, *2 +2 , *3 + 3 , *4 + 4 , *5 + 5

35. Ans. C
The pattern followed is *1.5 , * 2 , *2.5 , *3 , *3.5

36. Ans. B
Required ratio = 17150 : 12500 = 343:250

37. Ans. C
Required total number of sales = 15.5 + 13.5 + 7.5 + 5.6 + 16.3 + 13.5= 71900

38. Ans. A
Shop P's sales= 91.4
Shop Q's sales=65.05
Shop R's sales=71.9
Shop S's sales=43.8
Shop a T's sales=46.8

39. Ans. C
Required difference = 6.3 – 5.9 = 0.4 thousands= 400

40. Ans. C
Required total number of sales=14.4+7.4+15.7=37.5 thousand= 37500

41. Ans. B
By replacing the "?" with "x"
$$12.5 * \frac{14}{8.75} + 42 = 50 + X$$
(125*140)/875 + 42 = 50 + X
140/7 + 42 = 50 + X
20 + 42 = 50 + X
62 = 50 + X
X = 62 - 50
X = 12

42. Ans. B
$$\frac{150}{100} \times 460 + \frac{24}{100} \times 650$$
690+156
846

43. Ans. A
$1936 + 529 = ?^2 + 256$
$2465 = ?^2 + 256$
$?^2 = 2465 - 256$
$?^2 = 2209$
?=47

44. Ans. E
504/42 × 7 - 63 + 28 = 84 – 63 + 28 = 49
Hence option E is correct

45. Ans. B
$$68 \times \sqrt{?} - 3421 = 591$$
$$\Rightarrow 68 \times \sqrt{?} = 591 + 3421$$
$$\Rightarrow \sqrt{?} = \frac{4012}{68}$$
$$\Rightarrow \sqrt{?} = 59$$
$$\Rightarrow ? = (59)^2 = 59 \times 59$$
$$\Rightarrow ? = 3481$$
Hence, option (B) is correct.

46. Ans. A
$$(?)^2 = \frac{(400+16)}{650} \times 100 = \frac{416}{650} \times 100 = 64$$
$$\because (?)^2 = 64;$$
$$\therefore ? = 8$$

47. Ans. B
By replacing the "?" with "x"
$$\frac{25 \times 14 + 1450}{18} = 1998 \div x$$

$$\frac{350+1450}{18}=\frac{1998}{x}$$

$$\frac{1800}{18}=\frac{1998}{x}$$

$$100=\frac{1998}{x}$$

$$x=\frac{1998}{100}$$

x=19.98

48. Ans. B

$$4\frac{3}{7}+2\frac{1}{6}-4\frac{1}{3}=?-2\frac{3}{4}$$

$$?=4\frac{3}{7}+2\frac{1}{6}-4\frac{1}{3}+2\frac{3}{4}$$

$$?=(4+2-4+2)+\frac{3}{7}+\frac{1}{6}-\frac{1}{3}+\frac{3}{4}$$

$$?=(8-4)+\frac{36+14-28+63}{84}$$

$$?=4+\frac{113-28}{84}$$

$$?=4+\frac{85}{84}$$

$$?=4+1.01$$

$$?=5.01$$

49. Ans. C
$(?)^2 = 325 – 144 + 75 + 68$
$= 468 – 144 = 324$
$(?) = 18,-18$

50. Ans. C
534.596 + 61.472 – 496.708 = ? + 27.271
596.068 – 496.708 = ? + 27.271
? = 99.36 – 27.271
? = 72.089

51. Ans. A
$$\frac{23*6}{2}*x=14076$$

23*3*x=14076
69*x=14076
$$=\frac{14076}{69}=204$$

52. Ans. A
$3469 = 2025+?^2$
$?^2 = 3469-2025$
$?^2 = 1444$
? = 38

53. Ans. B

$$264 \div \sqrt{576} +(11)^2 +12 = (x)^2$$

264 / 24 + 121 + 12 = (?)^2
11 + 121 + 12 = (?)^2
144 = (?)^2
(?) = 12

54. Ans. B
$$\frac{69}{3}\times\frac{85}{100}+10.7$$
19.55+10.7
30.25

55. Ans. C
$$\frac{3}{4}\ of\ \frac{3}{5}\ of\ \frac{2}{3}\ of\ ?=3174$$

2/3x3/5x3/4x?=3174
=3174x10/3
=31740/3
=10580
Hence, Option C is correct.

56. Ans. A
Let the cost price of A as well as B is 100 Rs.
Then, ATQ:
Selling Price of A = 100+40 = 140
And Selling Price of B = 140 - (140*0.2) = 140 - 28 = 112
Total selling price = 140+112 = 252 Rs.
Total Cost price = Rs. 200
So by taking cost price = 100 Rs. total profit = 52 Rs.
Total profit will be Rs. 156 when cost price = (100/52)*156 = Rs. 300

57. Ans. B
Let the second & third numbers are 2x & 3x respectively.
ATQ,
5x*6x = 4320
$30x^2 = 4320$
$x^2 = 144$
x=12
Hence, second number = 5x = 5*12 = 60
Third number = 6x = 6*12 = 72
Ratio of first & second number = ¾
Hence, first number = (¾)*60 = 45
Sum of these 3 numbers = 60+72+45 = 177

58. Ans. D
Let the speed of boat in still water is 'x' km/hr & that of stream is 'y' km/hr.
Then,
ATQ
$(x+y)/y = 9/1$
$9y = x + y$
$x = 8y$
$y = 3$ km/hr
So, $x = 24$ km/hr
Upstream speed = 24-3 = 21 km/hr
Hence, distance travelled upstream in 5 hours = 21*5 = 105 km

59. Ans. A
$[(X+1400)*8*2/100] - [(X*8*1)/100] = 240$
$0.16X + 14*16 - 0.08X = 240$
$0.08X = 240 - 224$
$0.08X = 16$
$X = 200$ Rs.

60. Ans. B
Let the present ages of A & B to be 'a' & 'b' respectively.
Hence, 2 years ago, their ages must have been (a-2) & (b-2) respectively.
Average of their ages at that time = 26
Hence,
$[(a-2)+(b-2)]/2 = 26$
$(a-2)+(b-2) = 52$
$a+b = 56$
Age of A, 5 year hence = 40 years
Hence, $(a+5) = 40$
$a = 35$ years
Hence, $b = 56 - 35 = 21$ years
$B = (C-5)$
Hence, $C = 21+5 = 26$ years
Age difference between A & C = 35 - 26 = 9 years

61. Ans. D
$X+Y+Z = 24*3 = 72$
$X:Y = 2:3$ (Given)
Let 'X' to be 2a & 'Y' to be 3a
$X+Y = 60$ (Given)
$2a+3a = 60$
$5a = 60$
$a = 12$
Hence, $X = 24$ & $Y = 36$
From equation (1)...
$Z = 72 - 60$
$Z = 12$
Hence, X - Z = 24-12 = 12

62. Ans. A
The area of a square = 1225 cm^2
Let the side of the square = a cm.
Hence, $a^2 = 1225$
$a = 35$ cm
Diagonal of the square = $a\sqrt{2} = 35\sqrt{2}$ cm

Length of the rectangle (l)=80% of 35√2 cm = 28√2 cm
Perimeter of the rectangle = 94√2 cm
$2(l+b) = 94\sqrt{2}$ cm
$l+b = 47\sqrt{2}$ cm
$28\sqrt{2} + b = 47\sqrt{2}$
$b = 19\sqrt{2}$ cm
Area of the rectangle=l*b = 28√2*19√2 cm = 1064 cm^2

63. Ans. C
Annual salary of Arun = 7,68,000 Rs.
Monthly salary = 7,68,000/12 = Rs. 64,000
Spending on children = Rs. 12,000
Rest = 52,000
1/13th of the rest = 52,000/13 = Rs. 4,000 is spent on food.
Rs. 8,000 is spent in mutual funds.
Monthly savings = 64,000 - (12,000+4,000+8,000) = Rs. 40,000

64. Ans. B
A takes 24 days to complete a work.
B is 20% more efficient than A, hence B will take (24*100)/120 = 20 days.
C takes (20+10) = 30 days.
Time taken by A & C in completing the work = (24*30)/(24+30) = (24*30)/54 = 40/3 days

65. Ans. E
Let initial quantity of milk & water in the mixture are 5x & 4x
2 litres water is added.
Hence,
New quantity of milk & water will be 5x & (4x+2)
ATQ,
$5x/(4x+2) = 10/9$
$x/(4x+2) = 2/9$
$9x = 8x + 4$
$x = 4$
Hence, new amount of water in the mixture = 4x+2 = (4*4) + 2 = 18 litres

66. Ans. D
Thus P lives on the 5th number floor.

8	W
7	Q
6	V
5	P
4	T
3	R
2	U
1	S

Hence Option D is correct.

67. Ans. A
U lives exactly between the floors of R and S.

8	W
7	Q
6	V
5	P
4	T
3	R
2	U
1	S

Hence Option A is correct

68. Ans. C
W lives on the topmost floor.

8	W
7	Q
6	V
5	P
4	T
3	R
2	U
1	S

Hence Option C is correct

69. Ans. B
All the others occur at odd places except V which occurs at even place. Thus V does not belong to the group.

8	W
7	Q
6	V
5	P
4	T
3	R
2	U
1	S

Hence Option B is correct

70. Ans. E
The solution to the above puzzle is:
4 persons that is V, P, T and R live between Q and U.

8	W
7	Q
6	V
5	P
4	T
3	R
2	U
1	S

Hence Option E is correct

71. Ans. B
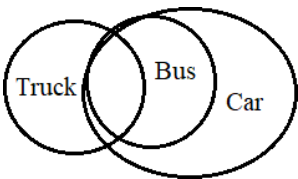
72. Ans. B
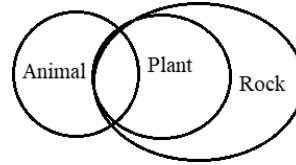
73. Ans. D
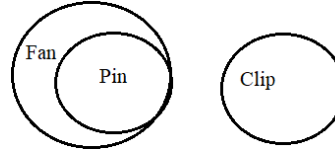
74. Ans. D
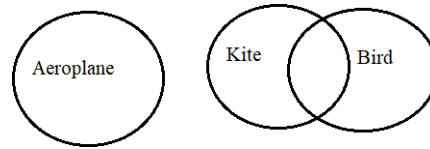
75. Ans. A
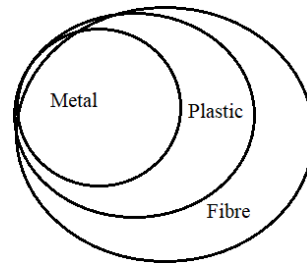
76. Ans. B
Given arrangement -
I 4 M 6 % 1 R O # 9 @ G W S 2 U $ *8 7 C E 3 © K 5
We have to find - Letter/Symbol Number Vowel
There is only one pair - S 2 U

77. Ans. E
Given arrangement -
I 4 M 6 % 1 R O # 9 @ G W S 2 U $ *8 7 C E 3 © K 5
M1% - M + 3 = 1, 1-1 = %
U8* - U + 3 = 8, 8 - 1 = *
G2S - G + 3 = 2, 2 - 1 = S
35K - 3 + 3 = 5, 5 - 1 = k
C©E - C + 3 = ©, © - 2 = E
Hence, all other pairs form the same pattern but C©E does not belong to that group

78. Ans. A
Given arrangement -
I 4 M 6 % 1 R O # 9 @ G W S 2 U $ *8 7 C E 3 © K 5
We have to find - seventh to the right of fifteenth from the right end, which means - 15th - 7th = 8th element from the right end i.e. is - 8

79. Ans. C
Given arrangement -
I 4 M 6 % 1 R O # 9 @ G W S 2 U $ *8 7 C E 3 © K 5
We have to find - Number Symbol Consonant
There are only two pairs - 9@G and 3 ©K

80. Ans. D
Given arrangement -
I 4 M 6 % 1 R O # 9 @ G W S 2 U $ *8 7 C E 3 © K 5
After removing all the symbols from the arrangement we get, new arrangement -
I 4 M 6 1 R O 9 G W S 2 U 8 7 C E 3 K 5
Eight from the left end is - 9

81. Ans. B
P ≤ Q = R > S > T
For conclusion I:
I. P < T (false) no relation between P & T
For conclusion II:
Q = R > S > T
II. T < Q (true) T is smalller than Q
Hence, only conclusion II follows

82. Ans. A
L ≤ M < N > O = P
For conclusion I - N > O = P
I. P < N (true)
For conclusion II - M < N > O
II. O < M (false)
Hence, only conclusion I follows

83. Ans. A
J > K ≤ L = M < N
Conclusions:
I. K < N (true)
K ≤ L = M
II. K < M (false) Here, K is either smaller or equal to M. So, this is not true.
Hence, the only conclusion I follows.

84. Ans. C
P ≤ Q = R, T > R = S
by combining both the statement we get,
P ≤ Q = R = S < T
For both the conclusion,
P ≤ Q = S < T
P ≤ S
I. P = S
II. P < S
So, both the conclusion make complementary pairs, hence either I or II conclusion follows.

85. Ans. A
P ≤ Q = R, T > R = S
by combining both the statement we get,
P≤ Q = R = S, R < T
For Conclusion I,
Q < T

I. Q < T (true)
For conclusion II, we get
P ≤ S
II. P < S (false)
Hence, only conclusion I follows

86. Ans. C
● D sits third to the right of A who earns 12000. The one who earns 18000 is neighbor of A.

Case 1   Case 2

Take case 1:
● B earns 17000 and sits immediate left of D.
● Two persons sit between the one who earns 18000& H.

Case 1

● G and C are neighbours and earn total 33000. So there is two combinations 12,21 and 15,18. We know that A earns 12000 so combination must be 15000 and 18000.
● F earns 4000 more than G. So if G earns 15000 then F must earns 19000 but this salary is not given so G must earns 18000, F must earns 22000 and C must earns 15000.
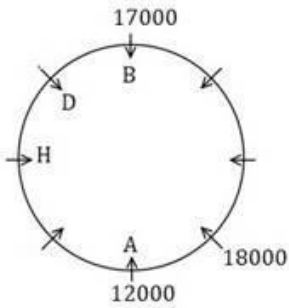● F is neighbor of A and the one who earns the highest. So H must earns 32000.

Case 1

- D earns more than E. So E must earns 21000 and D must earns 26000.
- The one who earns 21000 sits 2nd to the right of the one who earns 18000. So G earns 18000. So this case gets rejected.
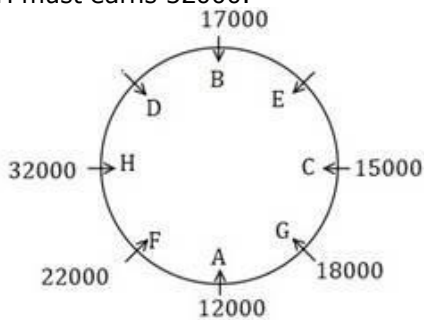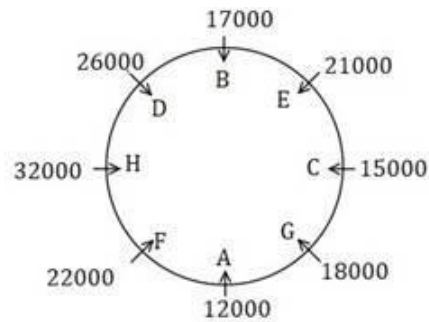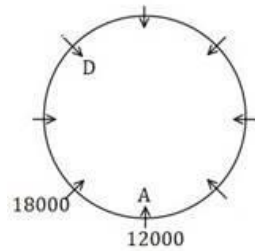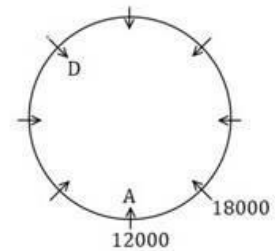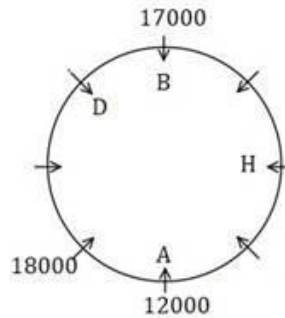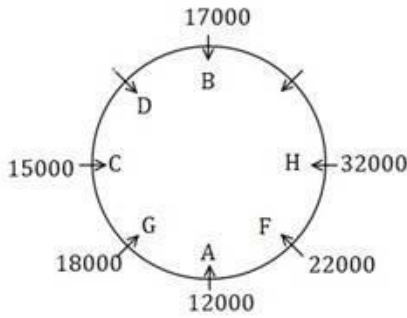

Case 1

Take case 2:
- B earns 17000 and sits immediate left of D.
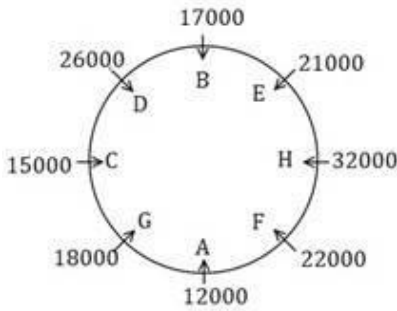- Two persons sit between the one who earns 18000 and H.

Case 2

- G and C are neighbours and earn total 33000. So there is two combinations 12,21 and 15,18. We know that A earns 12000 so combination must be 15000 and 18000.
- F earns 4000 more than G. So if G earns 15000 then F must earns 19000 but this salary is not given so G must earns 18000, F must earns 22000 and C must earns 15000.
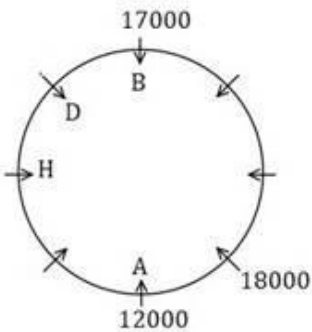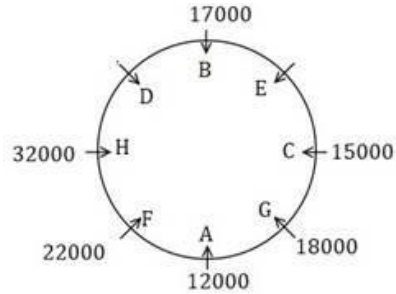- F is neighbor of A and the one who earns the highest. So H must earns 32000.

Case 2

- D earns more than E. So E must earns 21000 and D must earns 26000.
- The one who earns 21000 sits 2nd to the right of the one who earns 18000. So this case is correct.

Here is the final arrangement:

Case 2

H earns the highest.

87. Ans. C
- D sits third to the right of A who earns 12000. The one who earns 18000 is neighbor of A.

Case 1   **Case 2**

Take case 1:
- B earns 17000 and sits immediate left of D.
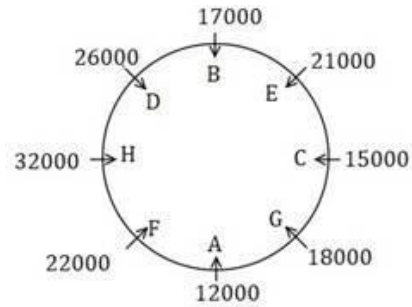- Two persons sit between the one who earns 18000 and H.

Case 1

- G and C are neighbours and earn total 33000. So there is two combinations 12,21 and 15,18. We know that A earns 12000 so combination must be 15000 and 18000.

● F earns 4000 more than G. So if G earns 15000 then F must earns 19000 but this salary is not given so G must earns 18000, F must earns 22000 and C must earns 15000.
● F is neighbor of A and the one who earns the highest. So H must earns 32000.

Case 1

● D earns more than E. So E must earns 21000 and D must earns 26000.
● The one who earns 21000 sits 2nd to the right of the one who earns 18000. So G earns 18000. So this case gets rejected.

Case 1

Take case 2:
● B earns 17000 and sits immediate left of D.
● Two persons sit between the one who earns 18000 and H.

Case 2

● G and C are neighbours and earn total 33000. So there is two combinations 12,21 and 15,18. We know that A earns 12000 so combination must be 15000 and 18000.
● F earns 4000 more than G. So if G earns 15000 then F must earns 19000 but this salary is not given so G must earns 18000, F must earns 22000 and C must earns 15000.
● F is neighbor of A and the one who earns the highest. So H must earns 32000.

Case 2

● D earns more than E. So E must earns 21000 and D must earns 26000.
● The one who earns 21000 sits 2nd to the right of the one who earns 18000. So this case is correct.
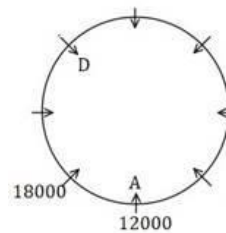
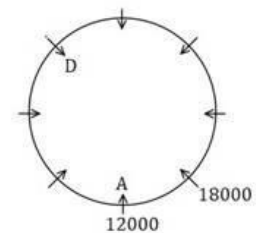**Here is the final arrangement:**

Case 2

G earns 18000.

88. Ans. B
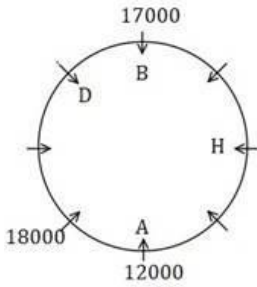● D sits third to the right of A who earns 12000. The one who earns 18000 is neighbor of A.
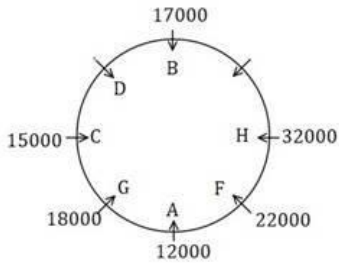

Case 1   Case 2

ake case 1:
● B earns 17000 and sits immediate left of D.
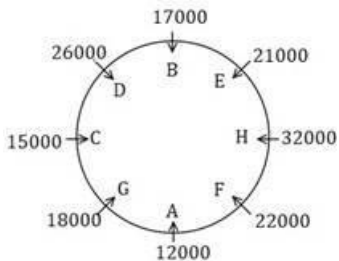● Two persons sit between the one who earns 18000 and H.

Case 1

● G and C are neighbours and earn total 33000. So there is two combinations 12,21 and 15,18. We know that A earns 12000 so combination must be 15000 and 18000.
● F earns 4000 more than G. So if G earns 15000 then F must earns 19000 but this salary is not given so G must earns 18000, F must earns 22000 and C must earns 15000.
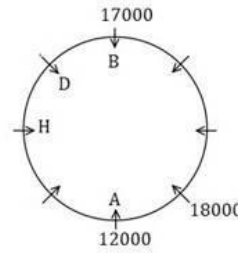● F is neighbor of A and the one who earns the highest. So H must earns 32000.

Case 1

● D earns more than E. So E must earns 21000 and D must earns 26000.
● The one who earns 21000 sits 2nd to the right of the one who earns 18000. So G earns 18000. So this case gets rejected.
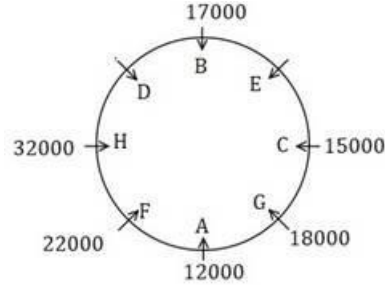

Case 1

Take case 2:
● B earns 17000 and sits immediate left of D.
● Two persons sit between the one who earns 18000 and H.

Case 2

● G and C are neighbours and earn total 33000. So there is two combinations 12,21 and 15,18. We know that A earns 12000 so combination must be 15000 and 18000.
● F earns 4000 more than G. So if G earns 15000 then F must earns 19000 but this salary is not given so G must earns 18000, F must earns 22000 and C must earns 15000.
● F is neighbor of A and the one who earns the highest. So H must earns 32000.

Case 2

● D earns more than E. So E must earns 21000 and D must earns 26000.
● The one who earns 21000 sits 2nd to the right of the one who earns 18000. So this case is correct.
Here is the final arrangement:

Case 2

C and H are sitting opposite.

89. Ans. D
● D sits third to the right of A who earns 12000. The one who earns 18000 is neighbor of A.

Case 1   Case 2

Take case 1:
● B earns 17000 and sits immediate left of D.
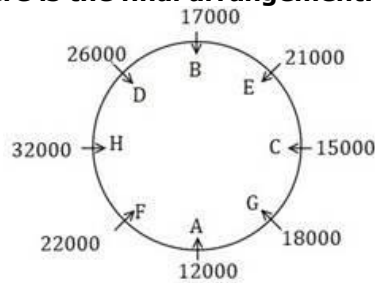● Two persons sit between the one who earns 18000 and H.

Case 1

● G and C are neighbours and earn total 33000. So there is two combinations 12,21 and 15,18. We know that A earns 12000 so combination must be 15000 and 18000.
● F earns 4000 more than G. So if G earns 15000 then F must earns 19000 but this salary is not given so G must earns 18000, F must earns 22000 and C must earns 15000.
● F is neighbor of A and the one who earns the highest. So H must earns 32000.

Case 1

● D earns more than E. So E must earns 21000 and D must earns 26000.
● The one who earns 21000 sits 2nd to the right of the one who earns 18000. So G earns 18000. So this case gets rejected.

Case 1

Take case 2:
● B earns 17000 and sits immediate left of D.
● Two persons sit between the one who earns 18000 and H.

Case 2

● G and C are neighbours and earn total 33000. So there is two combinations 12,21 and 15,18. We know that A earns 12000 so combination must be 15000 and 18000.
● F earns 4000 more than G. So if G earns 15000 then F must earns 19000 but this salary is not given so G must earns 18000, F must earns 22000 and C must earns 15000.
● F is neighbor of A and the one who earns the highest. So H must earns 32000.

Case 2

● D earns more than E. So E must earns 21000 and D must earns 26000.
● The one who earns 21000 sits 2nd to the right of the one who earns 18000. So this case is correct.
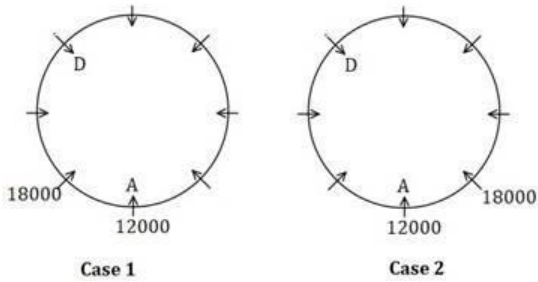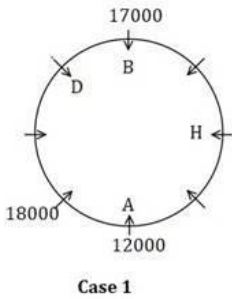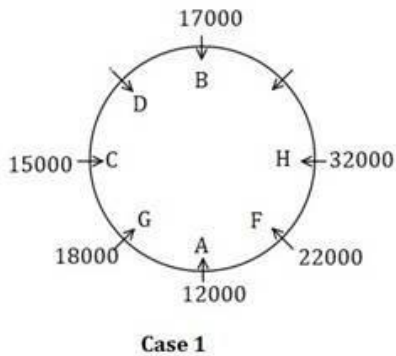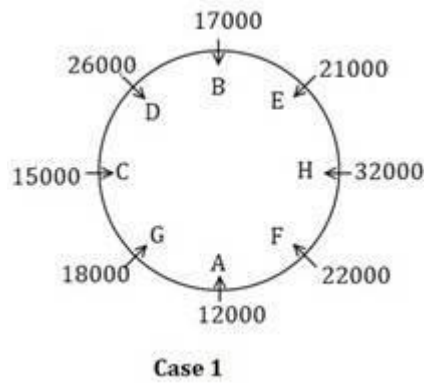
Here is the final arrangement:

Case 2

C who earns 15000 is sitting exactly between G and E.

90. Ans. B
● D sits third to the right of A who earns 12000. The one who earns 18000 is neighbor of A.

Case 1   Case 2

Take case 1:
● B earns 17000 and sits immediate left of D.
● Two persons sit between the one who earns 18000 and H.

Case 1

● G and C are neighbours and earn total 33000. So there is two combinations 12,21 and 15,18. We know that A earns 12000 so combination must be 15000 and 18000.
● F earns 4000 more than G. So if G earns 15000 then F must earns 19000 but this salary is not given so G must earns 18000, F must earns 22000 and C must earns 15000.
● F is neighbor of A and the one who earns the highest. So H must earns 32000.
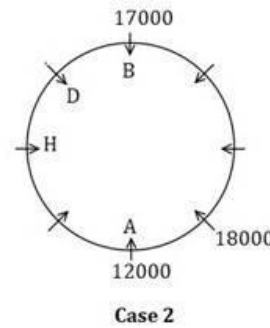

Case 1

● D earns more than E. So E must earns 21000 and D must earns 26000.
● The one who earns 21000 sits 2nd to the right of the one who earns 18000. So G earns 18000. So this case gets rejected.
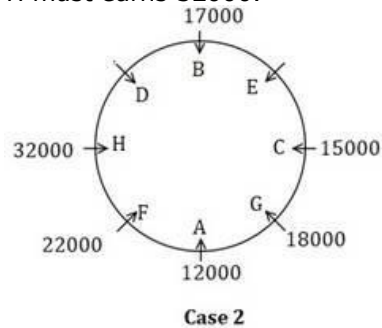

Case 1

Take case 2:
● B earns 17000 and sits immediate left of D.
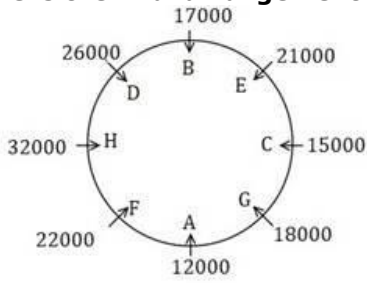● Two persons sit between the one who earns 18000 and H.

Case 2

● G and C are neighbours and earn total 33000. So there is two combinations 12,21 and 15,18. We know that A earns 12000 so combination must be 15000 and 18000.
● F earns 4000 more than G. So if G earns 15000 then F must earns 19000 but this salary is not given so G must earns 18000, F must earns 22000 and C must earns 15000.
● F is neighbor of A and the one who earns the highest. So H must earns 32000.

Case 2

- D earns more than E. So E must earns 21000 and D must earns 26000.
- The one who earns 21000 sits 2nd to the right of the one who earns 18000. So this case is correct.
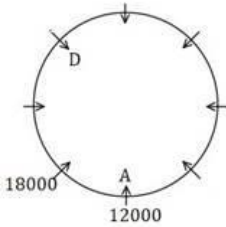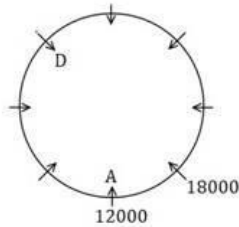
Here is the final arrangement:

Case 2

Only one person is earning more than D.

91. Ans. E
After arranging each alphabets in reverse English alphabetical order,
TOM SPN KGA ECB TRL
TRL TOM SPN KGA ECB
TRL comes first in reverse English alphabetical order so answer is LTR.

92. Ans. E
After arranging the word we get,
NTN MSQ ZKH ACF KTS
in 4 words there is no vowel.

93. Ans. B
If the second letter is replaced with the next alphabet and the last letter is replaced with previous alphabet,
OUL NTO ALF BDD LUQ
In only BDD, D repeated twice.
So our answer is 1.

94. Ans. E
OTM=15+20+13=48,
NSP= 14+19+16=49
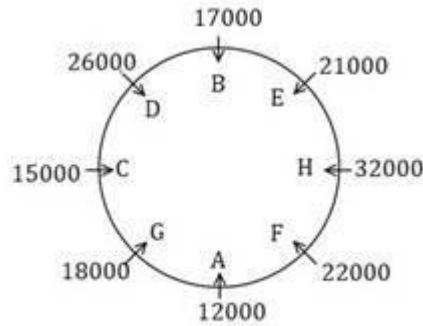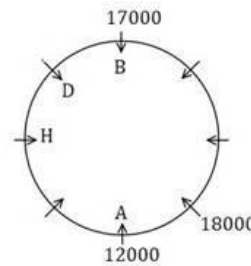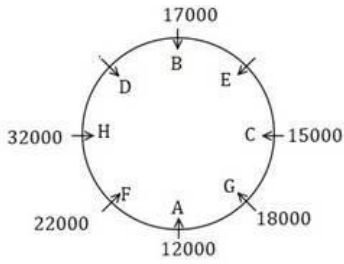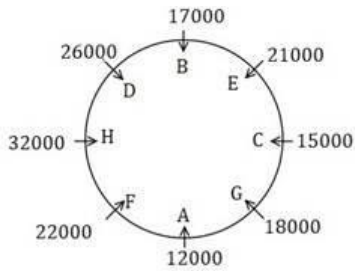AKG=1+7+11 =19
BCE=2+3+5=10
LTR=12+20+18=50
50 is the highest number so LTR is the answer.

95. Ans. A
If the consonant is replaced with the next alphabet and the vowel is replaced with previous alphabet,
NUN OTQ ZLH CDD MUS,
There is no word in which 2 vowels are present.
So answer is 0.

96. Ans. A
Only three persons sit between M and N and N is sitting at one of the ends. So we get 2 cases-
Case 1:

N			M				

Case 2:

		M			N	

- O is 2nd to the right of M and facing north. Q is 3rd to the right of O.
Case 1:

N		O		M	Q		
		North		South			

Case 2:

	O		M	Q			N
	North		South				

- More than two persons sit between Q and R. T is 2nd to the left of R.
Case 1:

N	R	O	T	M	Q		
	South	North		South			

Case 2:

R	O	T	M	Q			N
South	North		South				

- More than two persons sit between T and N. So case 1 gets rejected. P is 2nd to the right of Q. So Q is facing north. M's neighbors are facing same direction. So T is facing north. Q's neighbors are facing same direction so S is facing south. P's neighbors are facing opposite directions. So N is facing north. Four of them are facing north so P is facing south.

Here is the final arrangement:

R	O	T	M	Q	S	P	N
South	North	North	South	North	South	South	North

R is sits at the corner.
Hence, option A.

97. Ans. D
Only three persons sit between M and N and N is sitting at one of the ends. So we get 2 cases-
Case 1:

N				M			

Case 2:

		M			N	

• O is 2ⁿᵈ to the right of M and facing north. Q is 3ʳᵈ to the right of O.

Case 1:

N		O		M	Q		
		North		South			

Case 2:

	O		M	Q			N
	North		South				

• More than two persons sit between Q and R. T is 2ⁿᵈ to the left of R.

Case 1:

N	R	O	T	M	Q		
	South	North		South			

Case 2:

R	O	T	M	Q			N
South	North		South				

• More than two persons sit between T and N. So case 1 gets rejected. P is 2ⁿᵈ to the right of Q. So Q is facing north. M's neighbors are facing same direction. So T is facing north. Q's neighbors are facing same direction so S is facing south. P's neighbors are facing opposite directions. So N is facing north. Four of them are facing north so P is facing south.

Here is the final arrangement:

R	O	T	M	Q	S	P	N
South	North	North	South	North	South	South	North

All the persons are facing south except Q.
Hence, option D.

98. Ans. D
Only three persons sit between M and N and N is sitting at one of the ends. So we get 2 cases-
Case 1:

N			M			

Case 2:

		M			N	

• O is 2ⁿᵈ to the right of M and facing north. Q is 3ʳᵈ to the right of O.

Case 1:

N		O		M	Q		
		North		South			

Case 2:

	O		M	Q			N
	North		South				

• More than two persons sit between Q and R. T is 2ⁿᵈ to the left of R.

Case 1:

N	R	O	T	M	Q		
	South	North		South			

Case 2:

R	O	T	M	Q			N
South	North		South				

• More than two persons sit between T and N. So case 1 gets rejected. P is 2ⁿᵈ to the right of Q. So Q is facing north. M's neighbors are facing same direction. So T is facing north. Q's neighbors are facing same direction so S is facing south. P's neighbors are facing opposite directions. So N is facing north. Four of them are facing north so P is facing south.

Here is the final arrangement:

R	O	T	M	Q	S	P	N
South	North	North	South	North	South	South	North

3 persons sit between Q and R.
Hence, option D.
99. Ans. A
Only three persons sit between M and N and N is sitting at one of the ends. So we get 2 cases-

Case 1:

N			M			

Case 2:

		M			N	

• O is 2ⁿᵈ to the right of M and facing north. Q is 3ʳᵈ to the right of O.

Case 1:

N		O		M	Q		
		North		South			

Case 2:

	O		M	Q			N
	North		South				

• More than two persons sit between Q and R. T is 2ⁿᵈ to the left of R.

Case 1:

N	R	O	T	M	Q		
	South	North		South			

Case 2:

R	O	T	M	Q			N
South	North		South				

• More than two persons sit between T and N. So case 1 gets rejected. P is 2ⁿᵈ to the right of Q. So Q is facing north. M's neighbors are facing same direction. So T is facing north. Q's neighbors are facing same direction so S is facing south. P's neighbors are facing opposite directions. So N is facing north. Four of them are facing north so P is facing south.

Here is the final arrangement:

R	O	T	M	Q	S	P	N
South	North	North	South	North	South	South	North

No one is 3rd to the left of S.
Hence, option A.

100. Ans. A
Only three persons sit between M and N and N is sitting at one of the ends. So we get 2 cases-

Case 1:

N			M		

Case 2:

		M			N

• O is 2nd to the right of M and facing north. Q is 3rd to the right of O.

Case 1:

N		O		M	Q		
		North		South			

Case 2:

	O		M	Q			N
	North		South				

• More than two persons sit between Q and R. T is 2nd to the left of R.

Case 1:

N	R	O	T	M	Q		
	South	North		South			

Case 2:

R	O	T	M	Q			N
South	North		South				

• More than two persons sit between T and N. So case 1 gets rejected. P is 2nd to the right of Q. So Q is facing north. M's neighbors are facing same direction. So T is facing north. Q's neighbors are facing same direction so S is facing south. P's neighbors are facing opposite directions. So N is facing north. Four of them are facing north so P is facing south.

Here is the final arrangement:

R	O	T	M	Q	S	P	N
South	North	North	South	North	South	South	North

T is exactly between M and O.
Hence, option A.

***