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

TEST BOOKLET NO-26006

PAPER-II

Time Allowed: 02:00 hrs

Maximum Marks: 200

COMPREHENSION, REASONING, APTITUDE& MENTAL ABILITY

INSTRUCTIONS TO CANDIDATES

Read the instructions carefully before answering the questions: -

1. This Test Booklet consists of 28 (twenty eight) pages and has 100 (one hundred) **items (questions)**.
2. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS BOOKLET *DOES NOT* HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
3. **Please note that it is the candidate's responsibility to fill in the Roll Number and other required details carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the OMR Answer Sheet liable for rejection.**
4. Do not write anything else on the OMR Answer Sheet except the required information. Before you proceed to mark in the OMR Answer Sheet, please ensure that you have filled in the required particulars as per given instructions.
5. Use **only Black Ball Point Pen** to fill the OMR Answer Sheet.
6. **All questions are Multiple Choice-based .**The answers to these questions have to be marked in the **OMR Answer Sheet** provided to you.
7. **Persons belonging to Persons with Benchmark Disability category (only blind and low vision candidates who are availing the facility of scribe to write answers for them) ARE NOT required to attempt questions related to data interpretation (charts, graphs, tables, data sufficiency etc.) The questions numbers of such questions are highlighted in the paper (i.e. if Question No. 01 is a highlighted question, it would look like 1). Marks of these questions will be distributed equally amongst the remaining questions for such candidates.**
8. Each item (question) comprises of 04 (four) responses (answers). You are required to select the response which you want to mark on the OMR Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose ***ONLY ONE*** response for each item.
9. After you have completed filling in all your responses on the OMR Answer Sheet and the examination has concluded, you should hand over to the Invigilator ***only the OMR Answer Sheet .*** You are permitted to take the Test Booklet with you.
10. **Penalty for wrong answers in Multiple Choice-based Questions:**
    THERE WIL BE **PENALTY** FOR WRONG ANSWERS MARKED BY A CANDIDATE.
    (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to the question will be deducted as penalty.
    (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to the question.
    (iii) If a question is left blank. i.e., no answer is given by the candidate, there will be **no penalty** for that question.

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MULTIPLE CHOICE BASED QUESTIONS

Instructions for Questions 1 to 100:

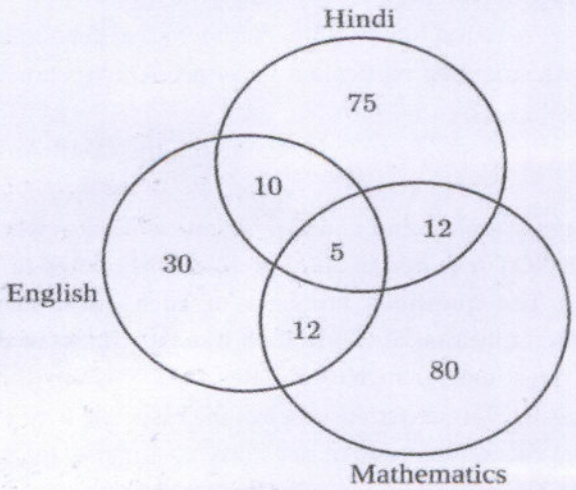
- Choose the correct answer for the following questions
- Each question carries 2 marks

(100 x 2 = 200 marks)

1. In 1930, a person's age was 8 times that of his Son. In 1938, the father's age became ten times that of his son's age in 1930. The ages of the son and father in 1940 were respectively

   A. 14 years, 42 years
   B. 16 years, 58 years
   C. 15 years, 50 years
   D. 13 years, 34 years

2. The given diagram shows the number of students who failed in an examination comprising papers in English Hindi and Mathematics. The total number of students who took the test is 500. What is the percentage of students who failed in at least two subjects?

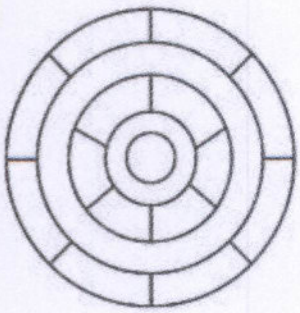


   A. 6.8
   B. 7.8
   C. 34
   D. 39

3. A, B, C, D, E, F and G are members of a family consisting of 4 adults and 3 children, wherein F and G are girls. A and D are brothers and A is a doctor. E is an engineer married to one of the brothers and has two children. B is married to D and G is their child. Who is C?

   A. G's brother
   B. F's father
   C. E's father
   D. A's son

4. Consider the following figure and answer the item that follows:



What is the minimum number of different colours required to paint the figure given above such that no two adjacent regions have the same colour?

A. 3
B. 4
C. 5
D. 6

PASSAGE- 1

Many pathogens that cause foodborne illnesses are unknown. Food contamination can occur at any stage from farm to plate. Since most cases of food poisoning go unreported, the true extent of global foodborne illnesses is unknown. Improvements in international monitoring have led to greater public awareness, yet the rapid globalization of food production increases consumers' vulnerability by making food harder to regulate and trace. "We have the world on our plates", says an official of WHO.

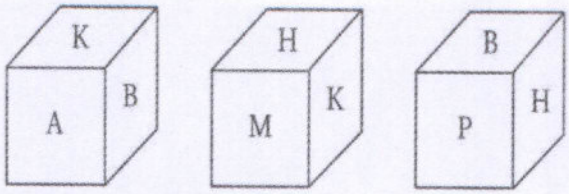
5. Which of the following is the most logical corollary to the above passage?

A. With more options for food come more risks
B. Food processing is the source of all foodborne illnesses.
C. We should depend on locally produced food only.
D. Globalization of food production should be curtailed

6 In an accurate clock, in a period of 2 hours 20 minutes (140 minutes), the minute hand will move over

A. 520°
B. 320°
C. 840°
D. 140°

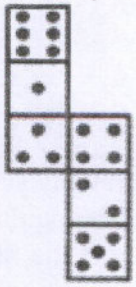
7. Three views of a cube following a particular motion are given below:



What is the letter opposite to A?

A. H
B. P
C. B
D. M

8. How many dots lie opposite to the face having two dots, when the given figure is folded to form a cube?



A. 1
B. 4
C. 3
D. 6

PASSAGE -2

Crude mineral oil comes out of the earth as a thick brown or black liquid with a strong smell. It is a complex mixture of many different substances, each with its own individual qualities. Most of them are combinations of hydrogen and carbon in varying proportions. Such hydrocarbons are also found in other forms such as bitumen, asphalt and natural gas. Mineral oil originates from the carcasses of tiny animals and from plants that live in the sea. Over millions of years, these dead creatures form large deposits under the sea-bed; and ocean currents cover them with a blanket of sand and silt. As this mineral hardens, it becomes sedimentary rock and effectively shuts out the oxygen, so preventing the complete decomposition of the marine deposits underneath. The layers of sedimentary rock become thicker and heavier. Their pressure produces heat, which transforms the tiny carcasses into crude oil in a process that is still going on today.

9. Mineral oil deposits under the sea do not get completely decomposed because they

A. are constantly washed by the ocean currents.
B. become rock and prevent oxygen from entering them.
C. contain a mixture of hydrogen and carbon.
D. are carcasses of organisms lying in saline conditions.

10. Sedimentary rock leads to the formation of oil deposits because

A. there are no saline conditions below it.
B. it allows some dissolved oxygen to enter the dead organic matter below it.
C. weight of overlying sediment layers causes the production of heat.
D. it contains the substances that catalyze the chemical reactions required to change dead organisms into oil.

PASSAGE -3

The man who is perpetually hesitating which of the two things he will do first, will do neither. The man who resolves, but suffers his resolution to be changed by the first counter- suggestion of a friend-who fluctuates from opinion to opinion and veers from plan to plan-can never accomplish anything. He will at best be stationary and probably retrograde in all. It is only the man who first consults wisely, then resolves firmly and then executes his purpose with inflexible perseverance, undismayed by those petty difficulties which daunt a weaker spirit-that can advance to eminence in any line.

11. The keynote that seems to be emerging from the passage is that

A. we should first consult wisely and then resolve firmly
B. we should reject suggestions of friends and remain unchanged
C. we should always remain broad-minded
D. we should be resolute and achievement-oriented

PASSAGE -4

In India, the segregation of municipal waste at source is rare. Recycling is mostly with the informal sector. More than three-fourths of the municipal budget goes into collection and transportation, which leaves very little for processing/resource recovery and disposal. Where does waste-to-energy fit into all this, ? Ideally it fits in the chain after segregation (between wet waste and the rest), collection, recycling, and before getting to the landfill. Which technology is most appropriate in converting waste to energy depends on what is in the waste (that is biodegradable versus non-biodegradable component) and its calorific value. The biodegradable component of India's municipal solid waste is a little over 50 per cent, and biomethanation offers a major solution for processing this.

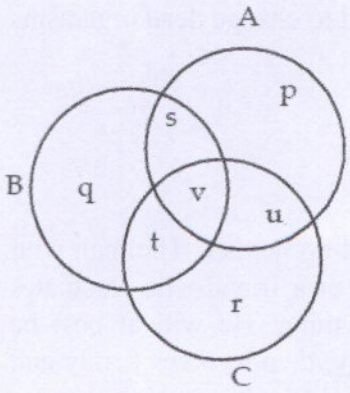
12. Based on the above passage, the following assumptions have been made:

1. Collection, processing and segregation of waste should be with municipal government agencies.
2. Resource recovery and recycling require technological inputs that can be best handled by private Sector enterprises.

Which of the assumptions given above is/are correct?

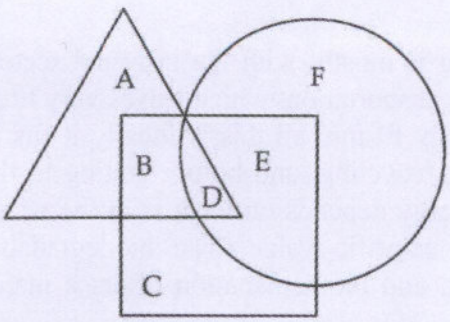
A. 1 only
B. 2 only
C. Both 1 and 2
D. Neither 1 nor 2

13. In the given diagram, circle A represents teachers who can teach Physics, circle B represents teachers who can teach Chemistry and circle C represents those who can teach Mathematics. Among these, which represents teachers who can teach Physics and Mathematics but not Chemistry?



A. V
B. U
C. S
D. T

14. In the given figure, the triangle represents girls, the square represents sports persons and the circle represents coaches. The portion in the figure which represents girls who are sports persons but not coaches is the one labelled, as



A. A
B. B
C. D
D. E

Directions for the following 6 (six) items:

Read the information given below and answer the six items that follow.

Seven people Adarsh, Bhanu, Charu, Darshan, Eshwar, Faran and Gautami are sitting in a circle. Five of them are facing the centre while two of them are facing opposite to the centre. Charu sits third to the left of Darshan and both are facing the centre. Eshwar is neither an immediate neighbour of Darshan nor of Charu. The one sitting exactly between Darshan and Faran is facing opposite to the centre. Gautami sits third to the right of Adarsh and she is facing the centre. One of Bhanu's neighbours is facing opposite to the centre.

15. Which of the following pairs represents the persons who are facing opposite to the centre?
    A. Adarsh and Eshwar
    B. Bhanu and Faran
    C. Adarsh and Faran
    D. Eshwar and Faran

16. Who is sitting second to the right of Adarsh?
    A. Charu
    B. Gautami
    C. Faran
    D. Eshwar

17. Who is sitting to the immediate left of Eshwar?
    A. Charu
    B. Gautami
    C. Adarsh
    D. Faran

18. What is the position of Darshan with respect to Adarsh?
    A. 1st to the left
    B. 1st to the right
    C. 2nd to the left
    D. 3rd to the right

19. If all the persons are asked to sit in anti-clockwise direction in an alphabetical order starting from Adarsh, the position of how many will remain unchanged, excluding Adarsh?
    A. 1
    B. 2
    C. 0
    D. 3

20. How many persons are sitting right to Eshwar till Adarsh (excluding)?
    A. 1
    B. 4
    C. 3
    D. 2

21. A hunter was asked how many animals he had in the cage. He replied there were all tigers but six, all lions but six and all deer but six. How many total animals he had in the cage?

A. 12
B. 18
C. 9
D. 16

PASSAGE 5

India's economy grew at a faster pace than most major nations in 2018, and this year, it's poised to overtake the U.K. to become the world's fifth- biggest. But that journey won't be smooth. The outcome of a general election due by May is a potential pitfall for a nation already battered by emerging market turmoil and a currency rout last year. Also, any attempts by the government to undermine the central bank's freedom and raid its surplus capital may spook investors and carry damaging consequences for the economy.

22. Which is the most logical and rational argument that can be drawn from the above passage?

A. India's economy has become the world's fifth-biggest economy by overtaking the U.K.
B. Both emerging market turmoil and a currency rout of the previous year have potentially damaged India's economy
C. The Indian government should limit central bank's freedom to achieve more growth
D. The outcome of a general election in the coming year will be good for the Indian economy

Read the given problem statement and answer the questions that follow :

A cube having a side of 6 cm is painted red on all the faces and then cut into smaller cubes of 1 cm each.

23. Find the total number of smaller cubes formed.

A. 64
B. 128
C. 216
D. 264

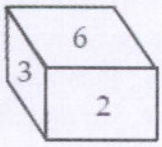
24. In the above problem, how many cubes will have three faces painted?

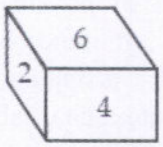
A. 6
B. 8
C. 12
D. 16

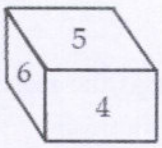
25. In the above problem, how many cubes will have no side painted?

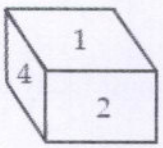
A. 16
B. 32
C. 48
D. 64

26. Consider the following pictures of dice :

(i) 

(ii) 

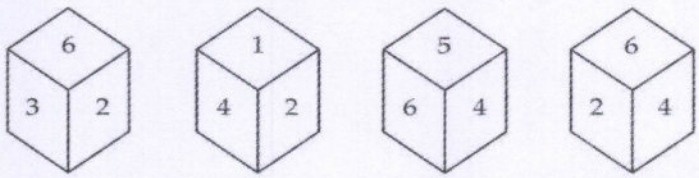
(iii) 

(iv) 

What is the number opposite to 3?

A. 1
B. 4
C. 5
D. Data insufficient

27. Each of the six faces of a cube is numbered by one of the digits from 1 to 6. This cube is shown in its four different positions in the figure I, II, III, and IV.



Consider the following statements.

1. Figures II and III are sufficient to know as to which face is opposite to the face numbered 6.
2. figures II and III are sufficient to know as to which face is opposite to the face numbered 4.
3. Figures I and IV are sufficient to know as to which face is opposite to the face numbered 3.

Which of the statements given above are correct?

A. 1 and 3 only
B. 1 and 2 only
C. 2 and 3 only
D. 1, 2 and 3

28. Six books A, B, C, D, E and F are placed side by side. B, C and E have blue cover and the other books have red cover. Only D and F are new books and the rest are old. A, C and D are law reports and others are Gazetteers. Which book is a new law report with a red colour?

A. A
B. B
C. C
D. D

PASSAGE 6

The miseries of the world cannot be cured by physical help only. Until man's nature changes, his physical needs will always arise, and miseries will always be felt, and no amount of physical help will remove them completely. The only solution of the problem is to make mankind pure. Ignorance is the mother of evil and of all the misery we see. Let men have light, let them be pure and spiritually strong and educated; then alone will misery cease in the world. We may convert every house in the country into a charitable asylum, we may fill the land with hospitals, but human misery will continue until man's character changes.

29. According to the passage, which of the following statements is most likely to be true as the reason for man's miseries?

A. The poor economic and social conditions prevailing in society.
B. The refusal on the part of man to change his character.
C. The absence of physical and material help from his society.
D. Ever increasing physical needs due to changing social structure.

30. With reference to the passage, the following assumptions have been made

1. The author gives primary importance to physical and material help in eradicating human misery.
2. Charitable homes, hospitals, etc. can remove human misery to a great extent.

Which of the assumption is/are valid?

A. 1 only
B. 2 only
C. Both 1 and 2
D. Neither 1 nor 2

PASSAGE 7

In general, religious traditions stress our duty to god, or to some universal ethical principle. Our duties to one another derive from these. The religious concept of rights is primarily derived from our relationship to this divinity or principle and the implication it has on our other relationships. This correspondence between rights and duties is critical to any further understanding of justice. But, for justice to be practiced; virtue, rights and duties cannot remain formal abstractions. They must be grounded in a community (common unity) bound together by a sense of common union (communion). Even as a personal virtue, this solidarity is essential to the practice and understanding of justice.

31. With reference to the passage, the following assumptions have been made:

1. Human relationships are derived from their religious traditions
2. Human beings can be duty bound only if they believe in god
3. Religious traditions are essential to practice and understand justice

Which of these assumption(s) is/are valid?

A. 1 only
B. 2 and 3 only
C. 1 and 3 only
D. 1, 2 and 3

32. Which one of the following is the crux of this passage?

A. Balance between rights and duties is crucial to the delivery of justice in a society
B. Our duties to one another are derived from our religious traditions
C. Having relationship to the divine principle is a great virtue
D. Religious concept of rights is primarily derived from our relationship to god

PASSAGE 8

Air Quality Index (AQI) is a way to combine measurements of multiple air pollutants into a single number or rating. This index is ideally kept constantly updated and available in different places The AQI is most useful when lots of pollution data are being gathered and when pollution levels are normal, but not always low. In such cases, if pollution levels spike for a few days, the public can quickly take preventive action (like staying indoors) in response to an air quality warning. Unfortunately, that is not urban India. Pollution levels in many large Indian cities are so high that they remain well above any health or regulatory standard for large part of the year. If our index stays in the 'Red/Dangerous' region day after day, there is not much any one can do, other than getting used to ignoring it.

33. Which among the following is the most logical and rational inference that can be made from the above passage?

A. We are not responsible enough to keep our cities pollution free.
B. There is absolutely no need for air quality indexes in our country.
C. Air quality index is not helpful to the residents of many of our large cities.
D. In every city, public awareness about pollution problems should increase

34. What will come in the place of "?" in the given number series?

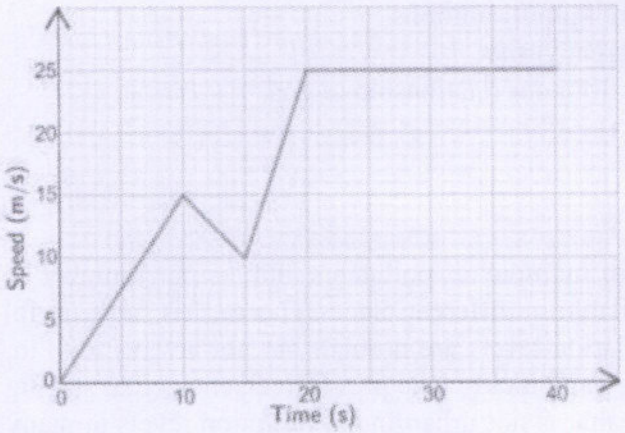
7, 26, 63, 124, 215, 342, ?

A. 491
B. 511
C. 615
D. 724

35. A cocktail contains wine and whiskey in the ratio of 7 : 5. If 8 litres of whiskey is added to the mixture, then the ratio becomes 7 : 9. Find the quantity of wine in the given mixture.

A. 13 litres
B. 15 litres
C. 14 litres
D. 17 litres

36. Given below is the speed-time graph of a biker. Calculate the total distance travelled by the biker over the course of journey.



Choose the correct option

A. 700 m
B. 725 m
C. 715 m
D. 750 m

PASSAGE- 9

Science cannot reduce the magic of a sunset to arithmetic, nor can it express friendship with a formula observed the eminent medical researcher, Dr. Lous Orr. He added, "Also beyond science's mastery of nature are love and laughter, pain and loneliness and insights into truth and beauty". This distancing of science from the human condition perhaps explains why most foreign tourists visiting Britain flock predictably to see the hallowed homes of playwrights, writers and poets, but choose to ignore the habitations where its eminent scientists lived and worked.

37. According to the author, why is it that science cannot express friendship with a formula?

A. Friendship is beyond science's mastery.
B. Science and friendship cannot coexist.
C. It is abstract term which cannot be grappled by science.
D. Friendship is unknown to scientists

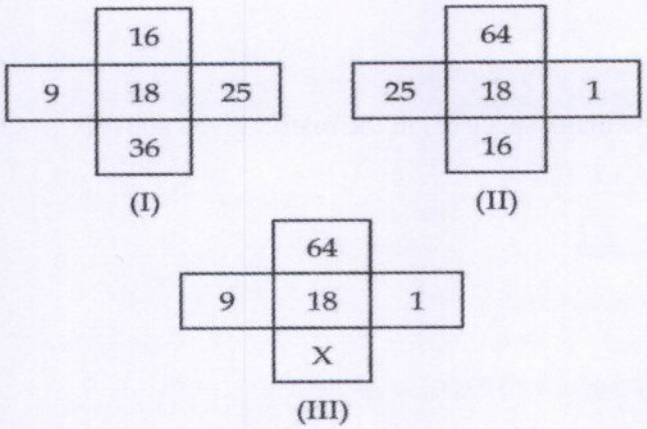
38. The word "magic" in the passage refers to

A. evening dusk
B. the sunrise
C. solar and lunar eclipse
D. setting of the sun with all its beauty

39. How many letters of the English alphabet (capitals) appear same when looked at in a mirror?

A. 9
B. 10
C. 11
D. 12

40. Examine the following



What is the value of X in figure III ?

A. 4
B. 16
C. 25
D. 36

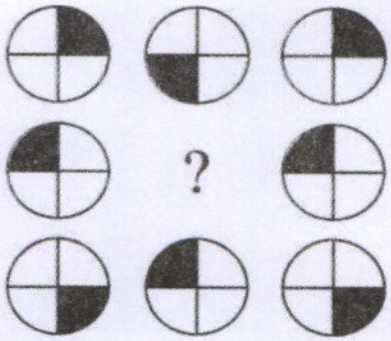
41. Gita is prettier than Sita but not as pretty as Rita. Then,

A. Sita is not as pretty as Gita.
B. Sita is prettier than Rita.
C. Rita is not as pretty as Gita.
D. Gita is prettier than Rita.

42. A watch showed a time of fourteen minutes past nine (9 hrs and 14 minutes). The positions of the hour-hand and the minute hand of the watch are exactly interchanged. The new time shown by the watch is closest to which one of the following?

A. Twelve minutes to three
B. Thirteen minutes to three
C. Fourteen minutes to three
D. Fifteen minutes to three

43. Examine the following



Which one of the figures shown below occupies the blank space (?) in the matrix given above?

(a) 

(b) 

(c) 

(d) 

44. Consider the figures given below:

1. 

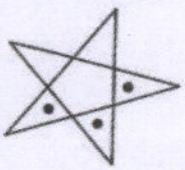
2. 

3. 

4. 

5. .....

In the given sequence of figures, the figure that would logically appear at 5 is

(a) 

(b) 

(c) 

(d) 

45. P, Q, R and S are four men. P is the oldest but not the poorest. R is the richest but not the oldest. Q is older than S but not than P or R. P is richer than Q but not than S. The four men can be ordered (descending) in respect of age and richness, respectively, as

A. PQRS, RPSQ
B. PRQS, RSQP
C. PRSQ, RSPQ
D. PRQS, RSPQ

Directions for the following 4 (four) items :

Read the following information and answer the four items that follow.

A, B, C, D and E are sitting on a bench. A is sitting next to B, C is sitting next to D, D is not sitting with E who is on the left end of the bench. C is on the second position from the right. A is to the right of B and E. A and C are sitting together.

46. In which position A is sitting?

A. Between B and C
B. Between B and D
C. Between C and D
D. Between C and E

47. Who is sitting at the extreme right end of the bench?

A. A
B. C
C. D
D. B

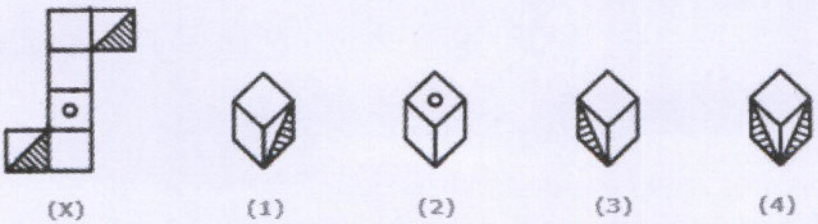
48. If in the final seating arrangement the positions of A and D are interchanged, who sits to the left of D?

A. B
B. C
C. A
D. E

49. How many persons are sitting between A and E?

A. 2
B. 0
C. 3
D. 1

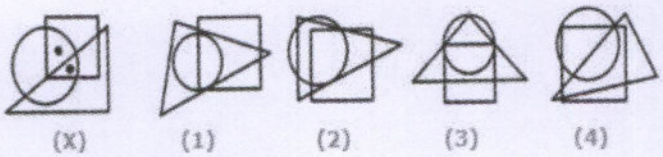
50. Choose the box that is similar to the box formed from the given sheet of paper (X)



Choose the correct code

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

51. Select the figure which satisfies the same conditions of placement of the dots as in Figure-X.



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

52. When in each box 5 or 6 dozens of apples were packed, three dozens were left. Therefore, bigger boxes were taken to pack 8 or 9 dozens of apples. However, still three dozens of apples remained. What was the least number of dozens of apples to be packed?

A. 343 dozens
B. 361 dozens
C. 363 dozens
D. 365 dozens

53. Three friends had a lunch at the restaurant. When the bill was received Arjun paid 2/3 as much as Sanjay paid and Sanjay paid 1/2 as much as Manish. What fraction of the bill did Sanjay pay?

A. 3/4
B. 3/11
C. 4/11
D. 5/13

PASSAGE- 10

The Himalayan ecosystem is highly vulnerable to damage, both due to geological reasons and on account of the stress caused by increased pressure of population, exploitation of natural resources and other related challenges. These aspects may be exacerbated due to the impact of climate change. It is possible that climate change may adversely impact the Himalayan ecosystem through increased temperature, altered precipitation patterns, episodes of drought and biotic influences. This would not only impact the very sustenance of the indigenous communities in uplands but also the life of downstream dwellers across the country and beyond. Therefore, there is an urgent need for giving special attention to sustain the Himalayan ecosystem. This would require conscious efforts for conserving all the representative systems. Further, it needs to be emphasized that the endemics with restricted distribution, and most often with specialized habitat requirements, are among the most vulnerable elements. In this respect the Himalayan biodiversity hotspot, with rich endemic diversity, is vulnerable to climate change. The threats include possible loss of genetic resources and species, habitats and concomitantly a decrease in ecosystem services. Therefore, conservation of endemic elements in representative ecosystems/habitats assumes a great significance while drawing conservation plans for the region.

Towards achieving the above, we will have to shift toward contemporary conservation approaches, which include a paradigm of landscape level interconnectivity between protected area systems. The concept advocates a shift from the species-habitat focus to an inclusive focus on expanding the biogeographic range so that natural adjustments to climate change can proceed without being restrictive.

54. Consider the following statements:

According to the passage, the adverse impact of climate change on an ecosystem can be a

1. permanent disappearance of some of its flora and fauna.
2. permanent disappearance of ecosystem itself.

Which of the statements given above is/are correct?

A. l only
B. 2 only
C. Both l and 2
D. Neither 1nor 2

55. Which one of the following statements best implies in the need to shift toward contemporary conservation approach?

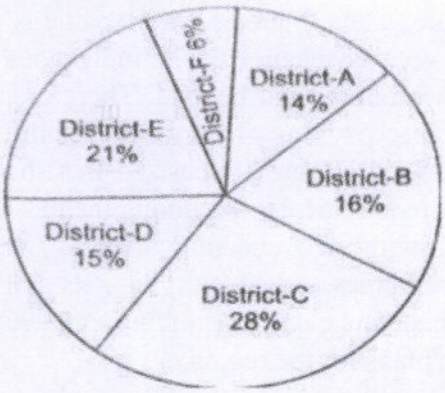
A. Exploitation of natural resources causes a stress on the Himalayan ecosystem.
B. Climate change alters precipitation patterns, causes episodes of drought and biotic interference.
C. The rich biodiversity, including endemic diversity, makes the Himalayan region a biodiversity hotspot.
D. The Himalayan biogeographic region should be enabled to adapt to climate change smoothly.

56. What is the most important message conveyed by the passage?

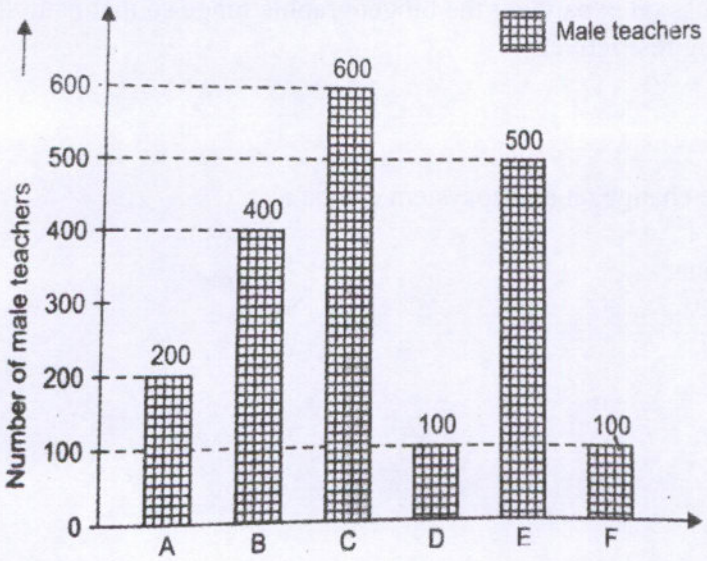
A. Endemism is a characteristic feature of Himalayan region.
B. Conservation efforts should emphasize on biogeographic ranges rather than on some species or habitats.
C. Climate change has adverse impact on the Himalayan ecosystem.
D. Without Himalayan ecosystem, the life of the communities of uplands and downstreams will have no sustenance.

Study the following pie-chart and bar graph and answer the questions that follow:

Drawn below is the percent wise distribution of teachers in 6 districts and number of men in each district out of 4500 teachers.



Number of Males in Each District Out of 4500 Teachers



57. What is the total number of male teachers in District F, female teachers in District C and female teachers in District B together ?

A. 1080
B. 1020
C. 1180
D. 1120

58. The number of female teachers in District D is approximately what per cent of the total number of teachers (both male & female) in District A ?

A. 70
B. 75
C. 80
D. 90

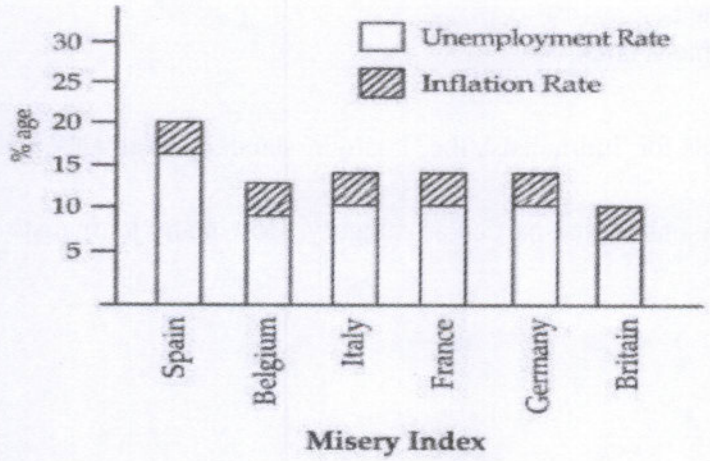
59. In which district is the number of male teachers more than the number of female teachers ?

A. B Only
B. Both B and E
C. Both E and F
D. D Only

60. What is the difference between the number of female teachers in District F and the total number of teachers (both male and female) in District E?

A. 625
B. 775
C. 675
D. 725

61. The misery index is the sum of a country's unemployment and inflation rate. The higher the index, the more miserable is the country to live in. The figure given below is the misery index for various countries in Europe.



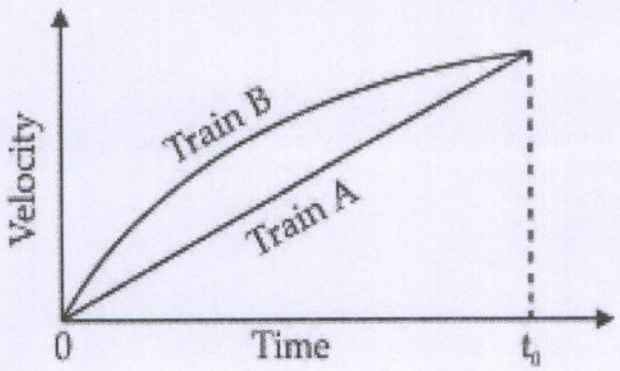
Which of the following conclusions can be drawn from the misery index given above?

1. Britain is the most miserable country to live in
2. The inflation rate in Spain is less than that in Belgium and Britain
3. Italy and France seem to have almost identical unemployment
4. The higher the misery index, the higher the inflation rate

Select the correct answer using the codes given below:

A. 1 alone
B. 2 and 3
C. 1, 2, 3 and 4
D. None of these

62. Consider the following Velocity - Time graph. It shows two trains starting simultaneously on parallel tracks.

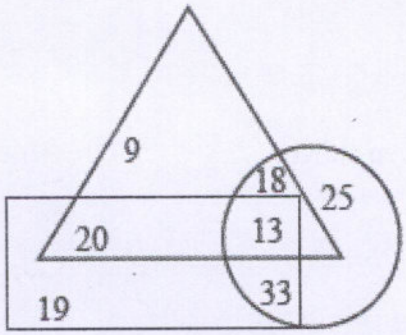


With reference to the above graph, which one of the following statements is not correct?

A. Train B has an initial acceleration greater than that of Train A.
B. Train B is faster than Train A at all times.
C. Both trains have the same velocity at time t_0.
D. Both trains travel the same distance in time t_0 units.

63. In the following Venn diagram, the 'Circle' stands for 'Journalists', the 'Triangle' stands for 'Females' and the 'Rectangle' stands for 'Urban residents'.

The given numbers represent the number of persons in that particular category. How many journalists are females but NOT urban residents?



A. 25
B. 9
C. 18
D. 13

64. The houses of A and B face each other on a road going north-south, A's being on the western side. A comes out of his house, turns left, travels 5 km, turns right, travels 5 km to the front of D's house. B does exactly the same and reaches the front of C's house. In this context, which one of the following statements is correct?

A. C and D live on the same street.
B. C's house faces south.
C. The houses of C and D are less than 20 km apart.
D. None of the above

65. Statement: It is desirable to put a child in school at the age of 5 or so.

Assumptions:
(i) At that age the child reaches appropriate level of development and is ready to learn.
(ii) The schools do not admit children after six years of age.

A. Only assumption I is implicit
B. Only assumption II is implicit
C. Either I or II is implicit
D. Neither I nor II is implicit

Consider the given information and answer the three items that follow.

Eight railway stations A, B, C, D, E, F, G and H are connected either by two way passages or one way passages. One way passages are from C to A, E to G, B to F, D to H, G to C, E to C and H to G. Two way passages are between A and E, G and B, F and D, and E and D.

66. While travelling from C to H, which one of the following stations must be passed through.

A. G
B. E
C. B
D. F

67. In how many different ways can a train travel from F to A without passing through any station more than once?

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

68. If the route between G and C is closed, which one of the following stations need not be passed through while travelling from H to C?

A. E
B. D
C. A
D. B

69. Statement: The old order changed yielding place to new.

Conclusions:
(i) Change is the law of nature.
(ii) Discard old ideas because they are old.

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

70. If MOUTH is coded as PNUIU, then CLOGS will be coded as

A. MDOTH
B. DMOHT
C. MDOHT
D. DMOHS

71. There are 20 people in a party. If every person shakes hand with every other person, what is the total number of handshakes?

A. 186
B. 190
C. 198
D. 200

72. In a certain city, the cost of travelling in a taxi includes fixed charges and charge for the distance covered. For a journey of 12 Km, the charges paid are 120 Rs and for a journey of 24 Km, the charges paid are 168 Rs. What will a person have to pay if he travels 30 Km?

A. 182 Rs
B. 224 Rs
C. 192 Rs
D. 230 Rs

73. In a code language, 'SOLID' is written as 'WPSLPIMFHA', What does the code' ATEXXQIBVO' refer to?

A. EAGER
B. WAFER
C. WAGER
D. WATER

74. The letters L, M, N, O, P, Q, R, S and T in their order are substituted by nine integers 1 to 9 but not in that order. 4 is assigned to P. The difference between P and T is 5. The difference between N and T is 3. What is the integer assigned to N?

A. 7
B. 5
C. 4
D. 6

75. Examine the following statements:

1. Lady's finger is tastier than cabbage.
2. Cauliflower is tastier than lady's finger.
3. Cabbage is not tastier than peas.

The conclusion that can be drawn from these statements is that

A. peas are as tasty as lady's finger.
B. peas are as tasty as cauliflower and lady's finger.
C. cabbage is the least tasty of the four vegetables.
D. cauliflower is tastier than cabbage.

76. Production of different types of cars (in thousands) in a company for years 1992 to 1996 is as follows:

	Type of Car				
Year	**A**	**B**	**C**	**D**	**E**
1992	160	60	84	100	76
1993	210	90	32	80	48
1994	130	30	44	95	85
1995	190	85	69	125	115
1996	260	95	120	80	120

What was the percentage of production of type - A car in 1995 to its total production over the years?

A. 24%
B. 20%
C. 18%
D. 15%

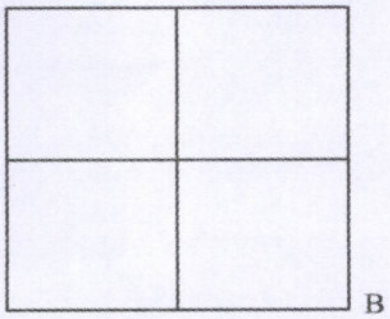
77. If ABC × DEED = ABCABC; where A, B, C, D and E are different digits, what are the values of D and E?

A. D = 2, E = 0
B. D = 0, E = 1
C. D = 1, E = 0
D. D = 1, E = 2

78. A, B, C, D are four friends. Average age of A and C is 35 years and that of B and D is 40 years. Average age of B,C and D is 40 Years. The sum of the ages of A and D is equal to that of B and C. Find out the ages (in years) of A, B, C and D.

A. 20 yr, 30 yr, 40 yr, 50 yr
B. 20 yr, 25 yr, 30 yr, 35 yr
C. 30 yr, 35 yr, 40 yr, 45 yr
D. 30 yr, 40 yr, 50 yr, 60 yr

79. Study the following figure :



A person goes from A to B always moving to the right or downwards along the lines. How many different routes can he adopt?

Select the correct answer from the codes given below:

A. 6
B. 5
C. 4
D. 7

80. There were 50 faculty members comprising 30 males and the rest females. No male faculty member knew music, but many of the female faculty members did. The Head of the institution invited six faculty members to a tea party by draw of lots. At the party it was discovered that no member knew music. The conclusion is that:

A. the party comprised male faculty members only
B. the party comprised only those female faculty members who could not give renderings in music
C. the party comprised both male and female faculty members
D. nothing can be said about the gender composition of the party

81. A is the daughter of C while C and D are sisters to one another. S is the mother of D. If R is the son of S, which of the following statements is correct

A. D is the grandfather of A
B. R is the maternal uncle of A
C. R is the cousin of A
D. S is the brother of C

82. A shopkeeper sells an article at a certain profit percentage. If he sells his article at 1/4 of his actual selling price, then he incurs a loss of 60%. What is his actual profit percentage?

A. 60
B. 40
C. 30
D. 35

83. In a certain code FIRE is coded as DGPC. What will be the third letter of the coded word for TIME?

A. J
B. O
C. K
D. Q

84. In a marble shop there are 4 white marbles, 3 blue marbles and 5 grey marbles. Two marbles are picked randomly. What is the possibility that both the marbles are of same colour?

A. 3/23
B. 4/25
C. 17/65
D. 19/66

85. The difference between two angles of a triangle is 28 degree. The average of the same two angles is 50 degree. Which of the following is the value of the smallest angle of the triangle?

A. 36 degree
B. 38 degree
C. 64 degree
D. 72 degree

86. Roman is 15 years elder to Ronny. If 5 years ago, Roman was 3 times as old as Ronny, then find Roman's present age.

A. 3 years
B. 29.5 years
C. 27.5 years
D. 25 years

87. A group of 900 men has provisions for 60 days. After 28 days, a reinforcement of 300 men comes. The food will last for how many days more?

A. 21 days
B. 24 days
C. 27 days
D. 35 days

88. Bus A leaves from C to D. Half an hour later bus B leaves for C from D. Two hours after A had started, the buses meet. A has covered double distance than bus B when they meet. What is the ratio of the speeds of bus A to bus B?

A. 3:2
B. 2:3
C. 4:5
D. 5:4

89. How many three-digit numbers can be generated from 1, 2, 3, 4, 5, 6, 7, 8, 9 such that the digits are in ascending order?

A. 80
B. 81
C. 83
D. 84

90. If a bus travels 160 km in 4 hours and a train travels 320 km in 5 hours at uniform speeds, then what is the ratio of the distances travelled by them in one hour?

A. 8:5
B. 5:8
C. 4:5
D. 1:2

91. Two cities A and B are 360 km apart. A car goes from A to B with a speed of 40 km/hr and returns to A with a speed of 60 km/hr. What is the average speed of the car?

A. 45 km/hr
B. 48 km/hr
C. 50 km/hr
D. 55 km/hr

92. A club has 108 members. Two-thirds of them are men and the rest are women. All members are married except for 9 women members. How many married women are there in the club?

A. 27
B. 24
C. 20
D. 30

93. A whistleblower provides evidence of massive tax fraud, but disclosure may destabilize financial markets temporarily. What is the most appropriate response?

A. Suppress evidence permanently
B. Publicize all information instantly without verification
C. Conduct lawful investigation while preparing measures to minimize systemic disruption
D. Punish the whistleblower immediately

94. A regulator must decide whether to ban a profitable technology suspected of causing long-term environmental damage, though scientific evidence is inconclusive. Which principle is most relevant?

A. Majority rule
B. Precautionary principle
C. Economic determinism
D. Competitive neutrality

95. An administrator introduces facial-recognition surveillance to improve urban safety, but independent audits reveal risk of misuse and profiling. What is the most balanced approach?

A. Continue without oversight
B. Ban all surveillance permanently
C. Introduce strict safeguards, accountability, transparency, and independent review mechanisms
D. Keep the system secret from the public

96. Which decision-making bias occurs when a person continues investing in a failing project because significant resources have already been spent?

A. Escalation of commitment
B. Anchoring bias
C. Confirmation bias
D. Availability heuristic

97. In group decision-making, "groupthink" is most likely to result in:

A. Increased creativity
B. Independent critical thinking
C. Poor-quality decisions due to pressure for consensus
D. More rational analysis

98. As a municipal commissioner, you must decide whether to demolish illegal settlements built on a riverbank before monsoon season. Demolition may leave families homeless, but delay could risk lives during floods. What is the best approach?

A. Delay demolition indefinitely
B. Demolish immediately without rehabilitation
C. Plan rehabilitation measures while ensuring timely evacuation from danger zones
D. Ignore the issue and wait for higher orders

99. During communal unrest, imposing curfew may restore order but also restrict civil liberties and prevent daily wage earners from earning income. What should guide the administration?

A. Proportionality between security needs and protection of rights
B. Public opinion on social media
C. Absolute prioritization of liberty over order
D. Economic concerns only

100. You are negotiating hostage release where paying ransom may save lives immediately but encourage future kidnappings. What is the most difficult ethical dilemma here?

A. Equality versus liberty
B. Short-term humanitarian gain versus long-term public security
C. Transparency versus privacy
D. Law versus technology

..... x .....