Instructions for candidates

TIME ALLOTTED – 2HRS

1. Total No. of Questions – 100. Each Question is of three marks.
2. One mark will be deducted for every wrong answer.

NUMERICAL ABILITY

1. The speed of a boat in still water is 15 km /h and the rate of stream is 5 km/h. The distance travelled downstream in 24 minutes is
   a) 4 km   b) 8 km
   c) 6 km   d) 16 km

2. A boat has to travel upstream 20 km distance from point X of a river to point Y. The total time taken by boat in travelling from point X to Y and Y to X is 41 minutes 40 seconds. What is the speed of the boat ?
   a) 66 km/hr   b) 72 km/hr
   c) 48 km/hr   d) Data inadequate

3. If 40% of a number is equal to two-thirds of another number, what is the ratio of the first number to the second?
   a) $7 : 3$ b) $3 : 7$
   c) $2 : 5$ d) $5 : 3$

4. The ratio of A's and B's salary is $9 : 4$. If A's salary is increased by 15%, then his total salary becomes $\text{Rs}.\,5175$. What is the salary of B?
   a) Rs. $2,000$ b) Rs. $4,000$
   c) Rs. $4,500$ d) Rs. $2,500$

5. If a sum of Rs.8000 lended for 20% per annum at compound interest then the sum of the amount will be Rs.13824 in
   a) 2 years   b) 1year
   c) 3years   d) 4years

6. The rate of interest on a sum of money is 4% per annum for the first 2 years , 6% per annum for the period next 4 years, 8% per annum for the period beyond 6 years. If the simple interest accrued by the sum for a total period of 9 years is Rs. 1680 ,what is the sum ?
   a) Rs.3000   b) Rs.5000
   c) Rs.4700   d) Rs.5500

7. The average of 15 numbers is 7. If the average of the first eight numbers is 6.5 and the average of last eight numbers is 9.5, then the middle number is
   a) 20   b) 21
   c) 23   d) 18

8. The average of 20 numbers is 12. The average of the 1st 12 numbers is 11 and that of the next 7 numbers is 10. The last number is:
   a) 40   b) 38
   c) 48   d) 50

9. While finding the average of 10 given numbers a student by mistake, wrote 64 in place of a number 46 and got his average 50. The correct average of the given numbers?
   a) 48.2   b) 48.3
   c) 49.1   d) 49.3

10. The price of certain article is 12000. But due to slump in the market, its Price decrease by 10%. What is the new price?
   a) 11000   b) 10500
   c) 10800   d) 11500

11. If 35% of a number is 12 less than 50% of that number, then the number is:
   a) 40   b) 50
   c) 60   d) 80

12. Computer A takes 3 minutes to process an input while computer B takes 5 minutes. If computers A,B and C can process an average of 14 inputs in one hour, how many minutes does Computer C alone take to process one input ?
   a) 10   b) 4
   c) 6   d) 8

13. A and B together can do a job in 12 days. B alone can finish it in 28 days. In how many days can A alone finish the work ?
   a) 21 days   b) 19 days
   c) 20 days   d) 20 days

14. L.C.M of two numbers is 78 and HCF is 26 if one number is 52 then other number is?
   a) 39   b) 29
   c) 49   d) 59

15. A train 300 m long is running at a speed of 90km/hr. How many seconds will it take to cross a 200 m long train running in the opposite direction at a speed of 60 km/hr ?
   a) $7\dfrac{1}{5}$ b) 60

c) 12   d) 20

16. **A cyclist covers a distance of 750 m in 2 min 30 sec. What is the speed in km/h of the cyclist ?**
   a) 18 km/h   b) 15 km/h
   c) 20 km/h   d) 22 km/h

17. **A train travels at an average of 50 miles per hour for $2\frac{1}{2}$ hour and then travels at a speed of 70 miles per hour for $1\frac{1}{2}$ hour How far did the train travel in the entire 4 hour ?**
   a) 120 miles   b) 150 miles
   c) 200 miles   d) 230 miles

18. **The speed of a motor boat is that of the current of as 36 : 5, the boat goes along with the current in 5 hours 10 minutes. It will come back in?**
   a) 5 hours 50 min   b) 6 hours
   c) 6 hours 50 min
   d) 12 hours 10 min

19. **A banana costs $Rs.2.25$ and an apple costs $Rs.3.00$. What will be the total cost of 4 dozen of bananas and 3 dozen of apples?**
   a) Rs. 216   b) Rs. 108
   c) Rs. 189   d) Rs. 225

20. **Two Mangoes, three grapes and four apples cost Rs. 15. Three Mangoes, two grapes and one apple cost Rs. 10. I bought 3 Mangoes, 3 grapes and 3 apples. How much did I pay?**
   a) Rs.15   b) Rs.18
   c) Rs.20   d) Rs.25

21. $\sqrt{(1+3+5)(1+3+5+7)(1+3+5+7+9)} = ?$
   a) 50   b) 60
   c) 70   d) 80

22. **Which of the following fraction is the smallest?**
   $$\frac{10}{17}, \frac{12}{19}, \frac{14}{19}, \frac{9}{19}$$
   a) $\frac{10}{17}$ b) $\frac{12}{19}$
   c) $\frac{14}{19}$ d) $\frac{9}{19}$

23. **If a number is as much greater than 32 as it is less than 74, then the number is**
   a) 106   b) 44
   c) 74   d) 53

24. **Which of the following number is NOT divisible by 18?**
   a) 54036   b) 50436
   c) 34056   d) 65043

25. **A and B together can do a piece of work in 10 days. A alone can do it in 30 days. The time in which B alone can do it is?**
   a) 10 days   b) 12 days
   c) 15 days   d) 20 days

REASONING AND MILITARY APTITUDE TEST

Direction- (26-30) Which is the one that does not belong to the same group?

26. a) food : hunger   b) water : thirst
   c) air : suffocation   d) talent : education

27. a) aluminum   b) copper
   c) mercury   d) iron

28. a) Venus   b) Saturn
   c) earth   d) mercury

29. a) faraday   b) newton
   c) Edison   d) Beethoven

30. a) ornithology : birds   b) mycology : fungi
   c) biology : botany   d) phycology : algae

Direction-(31-35) Find the similar relation

31. **Maharashtra : India : : Texas : ?**
   a) Canada   b) Mexico
   c) Brazil   d) USA

32. **Heart : Cardiologist : : Kidney : ?**
   a) Endocrinologist   b) Orthodontist
   c) Nephrologist   d) Neurologist

33. **Lamp : Oil : : Electric bulb : ?**
   a) Current   b) Bright
   c) Holder   d) Switch

34. **Poem : Poet : : ? : Book**
   a) Editor   b) Author
   c) Writer   d) Publisher

35. **Cataract : Eye : : Pneumonia : ?**
   a) Brain   b) Ear
   c) Lungs   d) Nerves and Limbs

36. **Pointing to a photograph, a man said, "I have no brother or sister but that mans father is my father's son. "Whose photograph was it?**
   a) His own   b) His son's
   c) His father   d) His nephew's

37. **Pratap correctly remembers that his mother's birthday is before 23rd April but after 19th April, whereas his sister correctly remembers that their mother's birthday is not on or after 22nd April. On which day in April is definitely their's mother's birthday?**
   a) 20th   b) 21st

c) 20th or 21st d) None of these

38. DCXW, FEVU, HGTS, ...?........
a) LKPO b) ABYZ
c) JIRQ d) LMRS

**39. Statements:** All bulbs are tables. Some bulbs are pots.
Conclusion:
I. All pots are tables. II. No pot is table.
III. Some pots are tables.
a) Only I b) Only II
c) Only III d) Only I and II

40. Statements: All rats are bells. All bells are cars.
Conclusion:
I. All bells are rats.
II. Some car are neither bells nor rats.
III. No car is rat.
a) Only I b) Only II
c) Only III d) None of these

41. Which of the following diagrams indicates the best relative between Judge, Thieves and Criminals?
a)   b)
c)   d)

42. Which of the following diagrams indicates the best relative between India, Haryana and World?
a)   b)
c)   d)

43. Which of the following diagrams indicates the best relative between Pigeon, Bird and Dog?
a)   b)
c)   d)

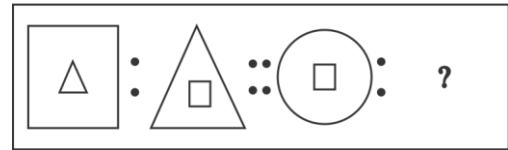**44. Which of the following diagrams indicates the best relative between Earth, Sea and Sun?**
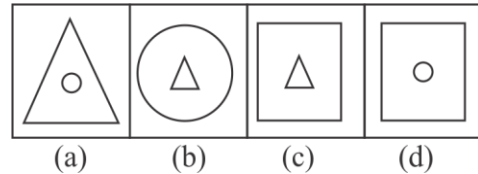a)   b)
c)   d)

DIRECTION(45-47)- find the odd one out

45.

46.

47.
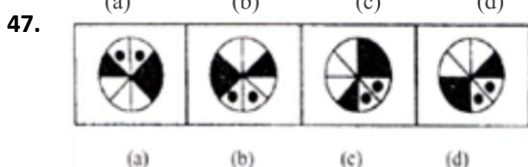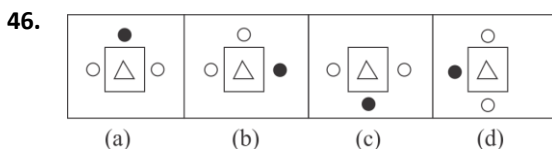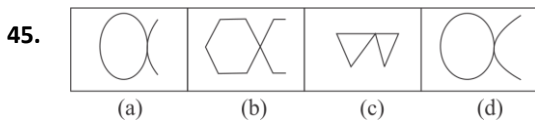
48. Select the related figure from the given alternatives.
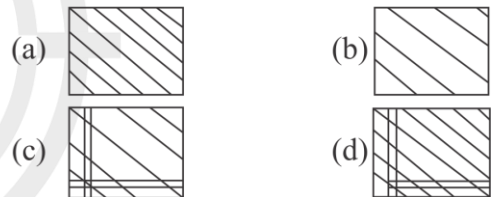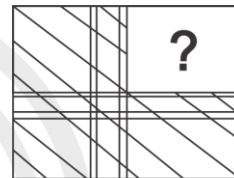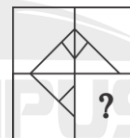**Questions Figures**

Answer Figures

DIRECTIONS (49-51) In each of the following questions, figure X is given with a part missing. Choose the alternative which will complete the missing part.
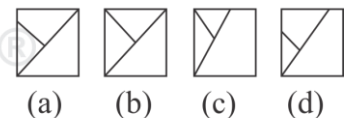
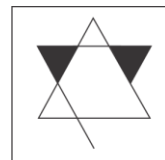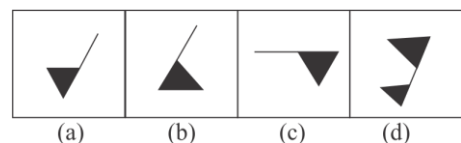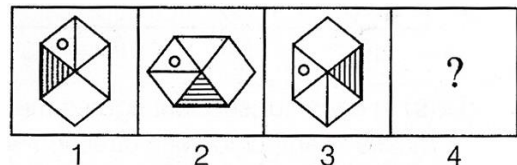**49.**
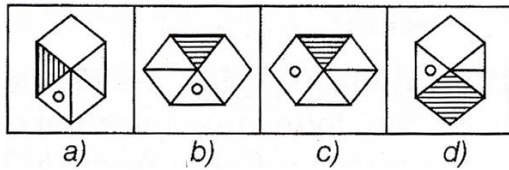

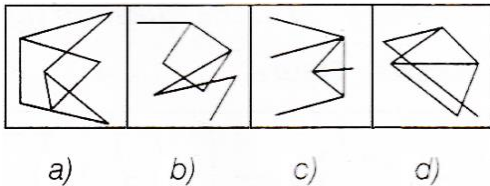**50.**
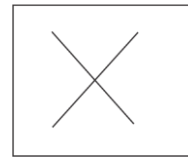

51.

52.

Answer Figures

a) b) c) d)

53. **From the given answer figures, select the one in which the question figure is hidden/embedded.**
Question Figure

Answer Figure

a) b) c) d)

54. **Question Figure**

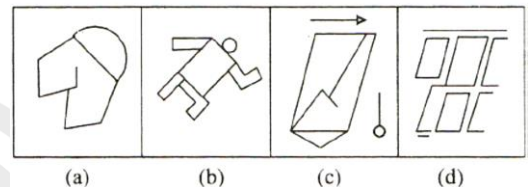**Answer Figure**

(a) (b) (c) (d)

55.

(X)

(a) (b) (c) (d)
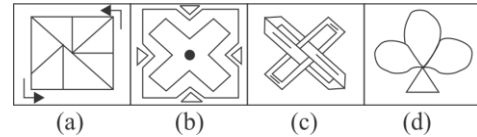
ENGLISH LANGUAGE

DIRECTION (Qs.56-60): Choose the most appropriate options that explains the correct meaning of the following idiom / phrase:

56. Hard and fast
a) Talented and successful
b) Strict
c) Futile search
d) Costly

57. White Elephant
a) Heavy possession
b) Strict
c) Futile search
d) Costly and troublesome

58. Going places
a) Talented and successful
b) Strict
c) Futile search
d) Costly

59. A wild goose chase
a) Talented and successful
b) Strict
c) Futile search
d) Costly

60. Brain sauce
a) Foolish   b) Wisdom
c) Mentally ill   d) Full of thoughts

DIRECTION (Qs. 61-65): Choose the synonyms/ antonyms of the given words.

61. Choose the synonym of Axiom;
a) Aspire   b) Maxim
c) Coward   d) Cunning

62. Choose the synonym of Endeavor :
a) Aspire   b) Yield
c) Confirm   d) Cease

63. Choose the synonym of Guile:
a) Aspire   b) Maxim
c) Coward   d) Cunning

64. Choose the antonym of Audacity
a) Mildness   b) Permit
c) Yield   d) Truth

65. Choose the antonym of Concede
a) Deny   b) Permit
c) Consent   d) Yield

DIRECTION (Qs. 66-70): Read the passage carefully and choose the best answer to each question out of the four alternatives.

There are three main groups of oils animal, vegetable, and mineral. Great quantities of animal oil come from whales, those enormous creatures of the sea, which are the largest of the animals remaining in the world. To protect the whales from the cold of the Arctic seas, nature has provided them with a thick covering of fat, called blubber. When the whale is killed, the blubber is stripped off and boiled down. It produces a great quantity of oil which can be made into food for

human consumption. A few other creatures yield oil, but none so much as the whale. The livers of the cod and halibut, two kinds of fish, yield nourishing oil. Both cod liver oil and halibut oil are given to sick children and other invalids who need certain vitamins.

Vegetable oil has been known from very old times. No household can get on without it, for it is used in cooking. Perfumes may be made from the oils of certain flowers. Soaps are made from vegetable and animal product and the oils of certain flowers.

66. **The main source of animal oil is**
a) fish
b) whale
c) sea weeds
d) plants

67. **Vegetable oil is mainly used for**
a) eating
b) cooking
c) frying
d) lubricating

68. **The _____ of fish yields nourishing oil.**
a) liver
b) stomach
c) eyes
d) Head

69. **The thick protective covering of fat on a whale is called a**
a) skin
b) cells
c) blubber
d) fins

70. **_____ are made from vegetable, animal products and the oils of certain flowers.**
a) Perfumes
b) Cosmetics
c) Cooking medium
d) Soaps

DIRECTION (Qs. 71-72): In the following passage some of the words have been left out. Read the passage carefully and choose the correct out of four alternatives.

Happy is the man who acquires the habit of reading when he is young. He has secured a life-long source of Pleasure instruction and inspiration. So long as he has his beloved books he need (71)_____ feel lonely. He always has a pleasant possession of leisure moments. He is the possessor of wealth more precious than gold. Poor indeed is the man who does not read and (72)_____ is his life. Reading gives the highest kind of pleasure. When we are tired it is a healthy recreation to lose ourselves in the company of books.

71.
a) always
b) ever
c) sometimes
d) never

72.
a) full
b) vacuum
c) empty
d) deep

DIRECTION (Qs. 73-75): Fill up the blanks with the given options

73. **The flash of the torch……. a cobra**
a) Exposed
b) Displayed
c) Disclosed
d) Revealed

74. **He was caught red handed and could not….. the charges.**
a) Refute
b) Refuse
c) Rebuke
d) Revoke

75. **Only one of the boys…. not done the homework given yesterday.**
a) Have
b) Has
c) Can
d) Could

DIRECTION (Qs. 76-80): In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'

76. You must either (a) / be regular with your studies (b) / and study for longer period before the exam (c) /No error. (d)

77. My sister (a) /has read (b) / pages after pages of the book (c) / No error (d)

78. I have (a) / seen her only once (b) / but I am liking her a lot (c) / no error (d)

79. Knowledge of (a) / at least two languages (b) / are required to pass the examination (c) / no error (d)

80. The sweets (a) / were shared (b) / between the four girls (c) / no error (d)

GENERAL AWARENESS

81. **India plans to build 100-bedded Cancer Hospital and 22, 000-seater Cricket Stadium in which country?**
a) Nepal
b) Mauritius
c) Mali
d) Maldives

82. **In which session Indian National Congress was split into Moderate and Extremist?**
a) Calcutta
b) Madras
c) Surat
d) Bombay

83. **India successfully test fired which supersonic cruise missile with a Strike Range of over 400Kilometers in September 2020?**
a) Prahaar
b) Agni
c) BrahMos
d) Nirbhay

**84.** **Agriculture and mining come into ---------- Sector.**
a) Primary
b) Secondary
c) Tertiary
d) None of the above

85. **Which amendment lead to the creation of Panchayati Raj in rural areas of India?**
a) 73rd Amendment
b) 42nd Amendment
c) 74th Amendment
d) 44th Amendment

86. **What is the main component of biogas and**

natural gas?
a) Ethane   b) Methane
c) Propane   d) Butane

87. **The members of the Rajya Sabha are elected by:**
a) The people
b) Lok Sabha
c) Elected members of the Legislative Assembly
d) Elected members of the Lesislative Council

88. **Which Human organ is called Suicide bag?**
a) Lysosomes   b) Kidney
c) Mitochondria   d) None of the above

89. **The One Rupee currency notes/coinsare issued by the-**
a) Ministry of Finance
b) RBI
c) Both A & B
d) SBI

90. **Which App the government launched for COVID-19?**
a) SAUBHAGYA   b) AROGYA SETU
c) SWAMITWA   d) None of the above

91. **The concept of Five-Year Plans in India was introduced by--**
a) Lord Mountbatten b) Indira Gandhi
c) Jawaharlal Nehru d) Lal Bahadur Shastri

92. **Which planet has ring?**
a) Mars   b) Jupiter
c) Venus   d) Mercury

93. **Which state is densest in population?**
a) Orissa   b) Bihar
c) Uttar Pradesh d) West Bengal

94. **Who is the founder of Vikramshila university?**
a) Kumargupta   b) Samudragupta
c) Shree Gupta   d) Dharama Pal

95. **Preamble was presented in Constituent Assembly by---------.**
a) Pandit Jawahar Lal Nehru
b) Dr. Bhim Rao Ambedker
c) Dr. Rajendra Prasad
d) Gandhiji

96. **Khizra Khan was founder of-------- dynasty.**
a) Lodhi Dynasty   b) Sayyid Dynasty
c) Mughal Dynasty d) Tughalaq Dynasty

97. **The shortest dynasty in Delhi Sultanate was----**
a) Slave dynasty   b) Khilji dynasty
c) Tughlaq dynasty   d) Sayyid dynasty

98. **Durand line separates**
a) India and Pakistan
b) Pakistan and Afghanistan
c) Pakistan and Tibbet
d) None of the above

99. **The Planning Commission of India renamed as.**
a) NITI Aayog   b) NITI Darshan
c) NITI Mandal   d) None of the Above

100. **Which is the highest lake of the world?**
a) Superior Lake   b) Michigan Lake
c) Titicaca Lake   d) None of the above

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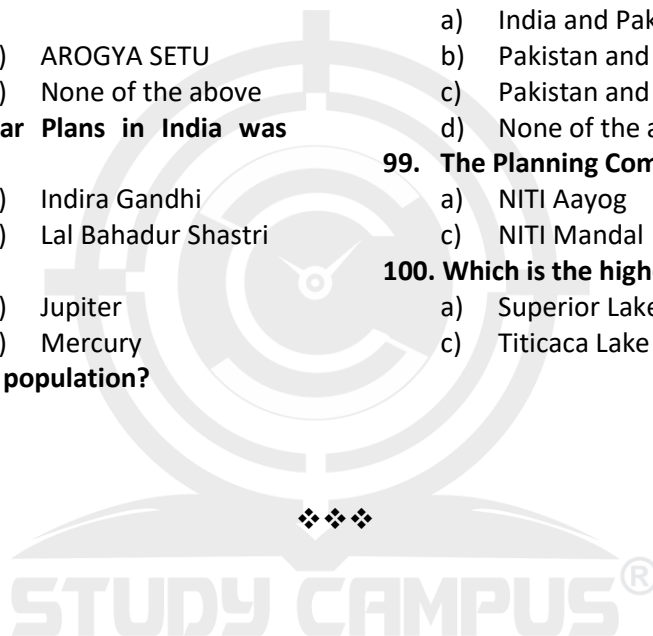
ANSWER KEY

1. b)	21. b)	41. b)	61. b)	81. d)
2. c)	22. d)	42. d)	62. a)	82. c)
3. d)	23. d)	43. a)	63. d)	83. c)
4. a)	24. d)	44. b)	64. a)	84. a)
5. c)	25. c)	45. a)	65. a)	85. a)
6. a)	26. d)	46. b)	66. b)	86. b)
7. c)	27. c)	47. b)	67. b)	87. c)
8. b)	28. c)	48. d)	68. a)	88. a)
9. a)	29. d)	49. b)	69. c)	89. a)
10. c)	30. c)	50. d)	70. d)	90. b)
11. d)	31. d)	51. a)	71. d)	91. c)
12. a)	32. c)	52. c)	72. c)	92. b)
13. c)	33. a)	53. d)	73. d)	93. b)
14. a)	34. b)	54. d)	74. a)	94. d)
15. a)	35. c)	55. b)	75. b)	95. a)
16. a)	36. b)	56. b)	76. c)	96. b)
17. b)	37. c)	57. d)	77. c)	97. b)
18. c)	38. c)	58. a)	78. c)	98. b)
19. a)	39. c)	59. c)	79. c)	99. a)
20. a)	40. d)	60. b)	80. c)	100. c)