## Part A: General Intelligence and Reasoning

**Answer the following questions by selecting the most appropriate option.**

**Directions (Q. 1–3) Find the odd word/letter/number from the given alternatives.**

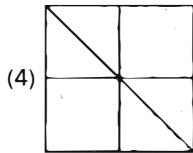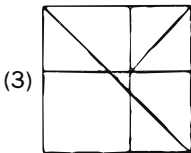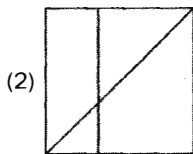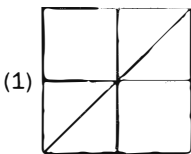**1.**
(1) 15      (2) 22
(3) 12      (4) 18

**2.**
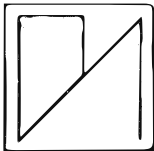(1) Speed post      (2) Money order
(3) Letter      (4) SMS

**3.**
(1) JG      (2) RN
(3) UQ      (4) NJ

**4. Observing the trend, find the missing number.**

| 5 | 4 | 3 |
|---|---|---|
| 6 | 7 | 8 |
| 4 | 2 | ? |
| 34 | 30 | 30 |

(1) 6      (2) 10
(3) 10      (4) 5

**5. A florist had 133 roses. She sold 5/7 of them. How many roses are left?**
(1) 38      (2) 19
(3) 58      (4) 57

**6. Select the answer figure in which the question figure is hidden.**



**Directions (Q. 7–10) Select the related word/letter/number from the given alternatives.**

**7. FRENCH: FRANCE :: DUTCH:?**
(1) NORWAY      (2) NETHERLANDS
(3) FIJI      (4) SWEDEN

**8. BOOK : LIBRARY :: TREE : ?**
(1) FURNITURE      (2) FOREST
(3) SHADE      (4) FRUIT

**9. DIMO : DMIO :: JUVR : ?**
(1) JVUR      (2) JUVR
(3) JVRU      (4) JRVU

**10. 4 : 19 :: 7 ?**
(1) 49      (2) 68
(3) 52      (4) 28

**11. If 2 = 0, 3 = 3, 4 = 6, 5 = 9, then 7 = ?**
(1) 15      (2) 18
(3) 12      (4) 16

**12. If**
÷ stands for ×
× stands for
– stands for + and
+ stands for ÷ then

**48 + 6 – 12 ÷ 2 + 10 = ?**

**(Solve chronologically and not according to BODMAS rule)**
(1) 9      (2) 16
(3) 4      (4) 14

**13. Two statements are given followed by two conclusions/assumptions, I and II. You have to consider the statement to be true, even if it seems to be at variance from the commonly known facts. You are to decide which of the given conclusions/assumptions can definitely be drawn from the given statement.**

**Statements:**
(1) All children are students.
(2) All students are players.

**Conclusions:**
I: All cricketers are students.
II: All children are players.
(1) Neither conclusion I nor II follows.
(2) Only conclusion I follows.
(3) Only conclusion II follows.
(4) Both conclusions I and II follow.

**14. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of matrix–I are numbered from 0 to 4 and that of matrix–II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'D' can be**
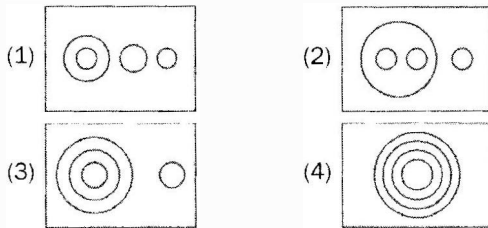
represented by 00, 12 etc, and 'P' can be represented by 56, 68, etc. Similarly, you have to Identify the set for the word 'FIRE'.

**MATRIX-I**

|   | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| 0 | D | E | F | I | N |
| 1 | I | N | D | E | F |
| 2 | E | F | I | N | D |
| 3 | N | D | E | F | I |
| 4 | F | I | N | D | E |

**MATRIX-II**

|   | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|
| 5 | O | P | R | S | T |
| 6 | S | T | O | P | R |
| 7 | P | R | S | T | O |
| 8 | T | O | P | R | S |
| 9 | R | S | T | O | P |

(1) 21, 22, 88, 03          (2) 02, 03, 57, 01
(3) 33, 40  76, 22          (4) 14, 10, 69, 14

**15.** Which of the answer figures indicates the best relationship between Milk, Goat, Cow, Hen?



**16.** Which answer figure will complete the pattern shown in the question figure?
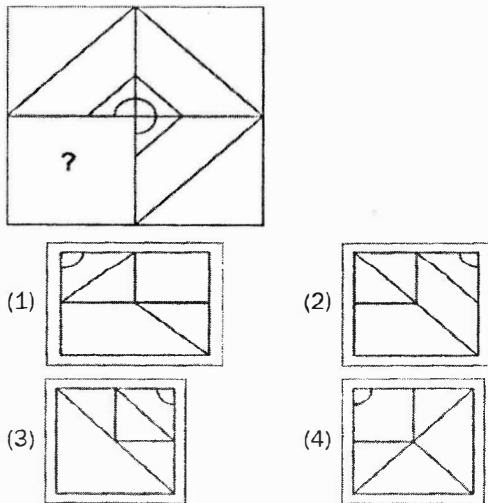


**Directions (Q. 17–18):** Choose the correct alternative from the given ones that will complete the series.

**17.** BCD, DBC, EFG, _____ HIJ
(1) IJH          (2) GEF
(3) EGF          (4) FEG

**18.** 0.15, 0.3, ?, 1.2, 2.4
(1) 0.9          (2) 4.8
(3) 0.06         (4) 0.6

**19.** From the given alternative words, select the word which cannot be formed using the letters of the given word.

**INTERDEPENDENT**
(1) DEEPEN          (2) REPENT
(3) DEPEND          (4) RETREAT

**20.** Five friends are sitting In a row facing south. Here Mohan is between Balu and Raju and Raju is to the immediate right of Praveen and Amith Is to the right of Balu.

Who is at the extreme right end?
(1) Mohan          (2) Praveen
(3) Balu           (4) Amith

**21.** Which one of the given responses would be a meaningful order of the following?
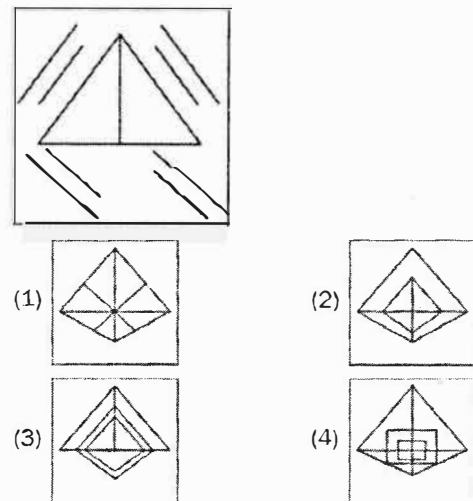1. Child,          2. Profession,
3. Marriage,       4. Infant,
5. Education
(1) 2, 1, 4, 3, 5     (2) 4, 1, 5, 2, 3
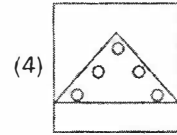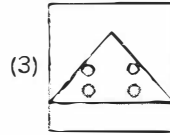(3) 1, 3, 5, 2, 4     (4) 5, 4, 1, 3, 2
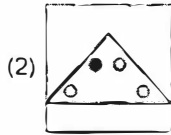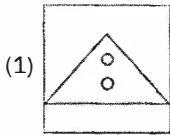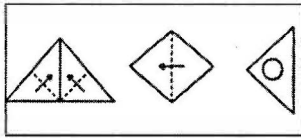
**22.** Which of the answer figures is exactly the mirror image of the given figure?
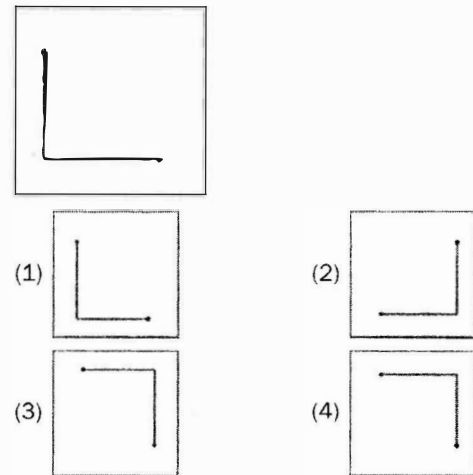


**23.** Which of the answer figures can be formed using the question figure:

24. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.



(1)     (2) 

(3)    (4) 

25. If STOVE is coded as EVOTS and CANDLE is coded as ELDNAC then REPORT is coded as:
    (1) TROPER
    (2) PORTRE
    (3) SFQPSU
    (4) QDONQS

# Part B: General Knowledge and General Awareness

26. Who of the following sultans pursued the policy of 'Blood & Iron'?
    (1) Alauddin Khilji          (2) Ghiyasuddin
    (3) Iltutmish               (4) Balban

27. When was the office of District Collector created?
    (1) 1773                    (2) 1786
    (3) 1772                    (4) 1771

28. Oxides of sulphur present in the atmosphere are washed down by rains to cause:
    (1) Lowering of pH of soil
    (2) Eutrophication in lakes
    (3) Depletion of fossil fuel
    (4) Industrial smog

29. Chemical composition of heavy water is:
    (1) $D_2O$                  (2) HDO
    (3) $H_2O$                  (4) $H_2O_2$

30. In BCG vaccine, the word "C" stands for:
    (1) Calmette                (2) Chlorine
    (3) Cough                   (4) Cadmium

31. Which of the following is a non-dimensional quantity?
    (1) Coefficient of viscosity
    (2) Planck's constant
    (3) Gas constant
    (4) Strain

32. Dadabhai Naoroji has described his theory of 'Drain of Wealth' in which book?
    (1) British Rule and its Consequences
    (2) Poverty and Un-British Rule in India
    (3) Exploitative Nature of British Rule in India
    (4) Nature of British Colonial Rule

33. Democracy is a 'government in which everyone has a share' was the opinion of:
    (1) Abraham Lincoln         (2) Seeley
    (3) Jeovans                 (4) Plato

34. The acid which fails to liberate carbon from sodium bicarbonate is:
    (1) Sulphuric acid          (2) Acetic acid
    (3) Formic acid             (4) Carbonic acid

35. The headquarters of United Nations Organization is located at:
    (1) Geneva                  (2) New York
    (3) Washington             (4) Rome

36. The term 'URL' used in Internet technology stands for:
    (1) Uniform Remote Locator
    (2) Unique Remote Locator
    (3) Unique Resource Locator
    (4) Uniform Resource Locator

37. How does agriculture promote the Indian Industrial development?
    (1) By supplying raw materials
    (2) By providing food and clothing to labourers
    (3) By opening up market for industrial products
    (4) All of the given options

38. The presence of pollutants in the environment is usually expressed in ppm, where ppm stands for:
    (1) purity per microgram
    (2) parts per million
    (3) pollutant preventive measures
    (4) particles per mole

39. The greatness of Sher Shah Suri lies in his:
    (1) Victories against Humayun
    (2) Administrative reforms
    (3) Superior generalship
    (4) Secular attitude

40. When water freezes, its density:
    (1) Becomes Zero            (2) Decreases
    (3) Remains constant        (4) Increases

41. Who was the author of Telugu work Amuktamalyada?
    (1) Krishnadeva Rai         (2) Harihara
    (3) Bukka                   (4) Devaraya

42. Name the first Indian to be banned for using anabolic steroid in Olympic Games.
    (1) Sumitha laha            (2) T. Sanmancha Chanu
    (3) Pratima Kumari          (4) Aswini Akunji

43. Economics classifies the man-made instrument of production as:
    (1) capital                 (2) equipment
    (3) labour                  (4) organisation

44. The Headquarters of World Trade Organization (WTO) is situated in:
    (1) London, U.K.            (2) New Delhi
    (3) Washington, U.S.A.      (4) Geneva, Switzerland

45. Which of the following is an autotroph?
    (1) Butterfly               (2) Algae
    (3) Grasshopper             (4) Mushroom

46. Who established the 'Sharda Sadan' a school for Indian widows in colonial India?
    (1) Mahadev Govind Ranade
    (2) Pandita Ramabai
    (3) Dayanand Saraswati
    (4) Sarojini Naidu

47. The smallest ocean is:
    (1) Pacific (2) Atlantic
    (3) Indian (4) Arctic

48. The Cash Reserve Ratio is a tool of:
    (1) Tax policy (2) Agricultural policy
    (3) Fiscal policy (4) Monetary policy

49. Which of the following countries has brought out a stamp on Mother Teresa to celebrate her birth anniversary?
    (1) India (2) U.K.
    (3) Pakistan (4) U.S.A.

50. The first President of independent India was:
    (1) Dr. S. Radha Krishnan
    (2) Sardar Patel
    (3) J.L. Nehru
    (4) Dr. Rajendra Prasad

# Part C: Elementary Mathematics

51. A certain sum amounts to ₹ 1725 at 15% per annum at simple interest and ₹ 1800 in the same time at 20% per annum at simple interest. Find the sum.
    (1) ₹ 1200 (2) ₹ 1650
    (3) ₹ 1500 (4) ₹ 1700

52. Average income of 'A' and 'B' is ₹ 200 and average income of 'C' and 'D' is ₹ 250. The average income of A, B, C, D is:
    (1) ₹ 225 (2) ₹ 125
    (3) ₹ 200 (4) ₹ 106.25

53. A seller increases the cost of an article by 30% and fixed the market price as ₹ 286 but during sale, he gave 10% discount. The percentage of profit will be:
    (1) 15 (2) 10
    (3) 20 (4) 17

54. The mean proportion of 1.21 and 0.09 is:
    (1) 3.3 (2) 0.033
    (3) 0.33 (4) 3.03

55. 1008 divided by _____ gives a perfect square.
    (1) 8 (2) 4
    (3) 7 (4) 9

56. The smallest number by which 243000 should be divided so that the quotient is a perfect cube is:
    (1) 3 (2) 9
    (3) 1 (4) 27

57. An item was sold for ₹ 3600 at 25% discount. Its market price was:
    (1) ₹ 4500 (2) ₹ 2700
    (3) ₹ 4800 (4) ₹ 2880

58. A dealer marks his goods 20% above cost price and allows a discount of 10% to his customers. His gain percentage is:
    (1) 7% (2) 8%
    (3) 9% (4) 6%

59. The average of 1, 3, 5, 7, 9, 11,......., 25 terms is
    (1) 625 (2) 125
    (3) 50 (4) 25

60. A sum of ₹ 800 becomes ₹ 956 in 3 years at a certain rate of simple interest. If the rate of interest is increased by 4%, what amount will the same sum become in 3 years?
    (1) ₹ 1052 (2) ₹ 1042
    (3) ₹ 1024 (4) ₹ 1025

61. A fruit merchant marks a profit of 25% by selling mangoes at a certain price. If he charges Re. 1 more on each mango, he would gain 50%. At first, the price of one mango was:
    (1) ₹ 7 (2) ₹ 6
    (3) ₹ 4 (4) ₹ 5

62. If the cost of an article is ₹ P after two successive reductions of 20% and 25%, the original price of the article was:
    (1) $₹\dfrac{5}{4}P$ (2) $₹\dfrac{3}{5}P$
    (3) $₹\dfrac{4}{5}P$ (4) $₹\dfrac{5}{3}P$

63. 16 men are able to complete pieces of work in 12 days working 14 hours a day. How long will 28 men, working 12 hours a day, take to complete the work?
    (1) 6 days (2) 7 days
    (3) 10 days (3) 8 days

64. A shopkeeper, in order to clear his old stock of TV sets, offers 12% discount on the T.V. sets. If the marked price of a T.V. set is ₹ 6500, the selling price of the T.V. set is:
    (1) ₹ 5400
    (2) ₹ 5720
    (2) ₹ 5700
    (3) ₹ 6000

**Directions (Q. 65–66): Study the data and answer the questions.**

The scores of the students of a class are given as follows:

| IQ Score | 80-90 | 90-100 | 100-110 | 110-120 | 120-130 | 130-140 |
|---|---|---|---|---|---|---|
| No. of Students | 6 | 9 | 16 | 13 | 4 | 2 |

65. The number of students whose IQ score is 100 and more is:
    (1) 35 (2) 46
    (3) 36 (4) 29

66. The number of students whose IQ score is 140 is:
    (1) Undeterminable from given data
    (2) 2
    (3) 1
    (4) 0

67. A plane can cover 6000 km in 8 hours. If the speed is increased by 250 kmph, then the time taken by the plane to cover 9000 km is:
    (1) 8 hours     (2) 9 hours
    (3) 6 hours     (4) 5 hours

68. The value of $\sqrt{.000441}$ is equal to:
    (1) 0.00021     (2) 0.021
    (3) 0.0021     (4) 0.21

69. The ratio of ages of two persons is 5 : 9 and the age of one of them is greater than the other by 40 years. The sum of their ages in years is:
    (1) 150     (2) 180
    (3) 160     (4) 140

70. Raja can do a piece of work in 20 days while Ramesh can finish it in 25 days. Ramesh started working and Raja joined him after 10 days. The whole work is completed in:
    (1) 16 2/3 days     (2) 18 days
    (3) 20 days     (4) 15 days

71. A batsman marks a score of 87 runs in the 17th inning and thus increased his average by 3. Find his average after 17th inning.
    (1) 84     (2) 39
    (3) 90     (4) 87

72. A solid right prism made of iron has cross section of a triangle of sides 5cm, 10cm, 13cm and of height 10cm. If one cube cm of iron weighs 7g, then the weight of the prism is (approximately)
    (1) 1570.8 gram     (2) 1470.8 gram
    (2) 1371.32 gram     (4) 1100.68

73. A student starting from his house walks at a speed of 2 ½ km/hour and reached his school 6 minutes late. Next day, starting at the same time, he increases his speed by 1 km/hour and reached 6 minutes early. The distance between the school and his house is
    (1) 1 ¾ km     (2) 4 km
    (3) 6 km     (4) 3 ½ km

74. A right circular cone of height 20 cm and base radius 15 cm is melted and casted into smaller cones of equal sizes of height 5 cm and base radius 1.5 cm. The number of casted cones are:
    (1) 100     (2) 300
    (3) 400     (4) 150

75. In a college election, a candidate secured 62% of the votes and is elected by a margin of 144 votes. The total number of votes polled is:
    (1) 600     (2) 1200
    (3) 925     (4) 800

# Part D: English

**Directions (Q. 76–78):** Some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error and blacken the circle corresponding to the correct options. If a sentence is free from error, blacken the circle corresponding to "No Error" option in the Answer sheet.

76. He finds fault at everything I do.
    (1) at everything     (2) No error
    (3) I do     (4) He finds fault

77. If i will play my best, I can win any day against anybody.
    (1) No error     (2) against anybody
    (3) I can win everyday     (4) If I will play my best

78. The kitchen need painting badly and I must get it done.
    (1) need painting badly     (2) No error
    (3) The kitchen     (4) and I must get it done

**Directions (Q.79–81):** Out of the four alternatives, choose the one which best expresses the meaning of the given word and marks it in the Answer Sheet.

79. honour
    (1) discipline     (2) courage
    (3) determination     (4) respect

80. felicitated
    (1) congratulated     (2) adored
    (3) admired     (4) encouraged

81. rectify
    (1) condone     (2) correct
    (3) regularise     (4) clarify

**Directions (Q. 82-84):** Four alternatives are given for the idiom/phrase underlined in the sentences. Choose the alternative which best expresses the meaning of the idiom/phrase and mark it in the Answer Sheet.

82. <u>carry out</u>
    (1) continue     (2) to take in
    (3) complete something     (4) bring

83. I have <u>taken fancy</u> to this car.
    (1) revised
    (2) given imaginative touches
    (3) developed liking for
    (4) improved

84. He <u>beats about the bush.</u>
    (1) speak well
    (2) talks sensibly
    (3) does not talk specifically
    (4) talks continuously

**Directions (Q. 85-88):** Sentences given with blanks are to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four and indicate it by blackening the appropriate circle in Answer Sheet.

85. She had to _____ illness in order to avoid going to the party meeting.
    (1) fain     (2) feign
    (3) feint     (4) faint

86. Your _____ nature will aid you in attaining success in every venture you undertake.
    (1) persevering     (2) rotund
    (3) lackadaisical     (3) catalytic

87. The publisher is bringing _____ a revised edition of this book.
    (1) round     (2) out
    (3) up     (4) about

**88. This is our house and that is _____.**
(1) them
(2) their's
(3) their
(4) theirs

**Directions (Q. 89-91): Choose the word opposite in meaning to the given word and mark it in the answer sheet.**

**89. harmonious**
(1) Balanced
(2) Sonorous
(3) Concordant
(4) Discordant

**90. fragile**
(1) weak
(2) discard
(3) brittle
(4) strong

**91. superficial**
(1) Artificial
(2) Natural
(3) Amicable
(4) Genuine

**Directions (Q. 92-94): Out of the four alternatives, choose the one which can be substituted for the given words/sentences and indicate it by blackening the appropriate circle in the Answer Sheet.**

**92. Chief or Commander of army:**
(1) Lieutenant
(2) Major
(3) General
(4) Colonel

**93. One who cannot be corrected:**
(1) indolent
(2) incorrigible
(3) indefatigable
(4) ineligible

**94. Put side by side:**
(1) Depose
(2) Propose
(3) Juxtapose
(4) Impose

**Directions (Q. 95-97): Four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word and mark your answer in the Answer Sheet.**

**95.**
(1) knowledgeable
(2) knoledgeable
(2) knowledgable
(4) knowledgeble

**96.**
(1) juvinnile
(2) juvenille
(3) juvinile
(4) juvenile

**97.**
(1) deteriorate
(2) deteriorrate
(3) deterriorate
(4) detariorate

**Direction (Q. 98-100): A part of the sentence is underlined. Below are given alternatives to the underlined part which may improve the sentence. Choose the correct alternative. In case no improvement is needed, choose "No improvement".**

**98. Years ago, I met a man which was President and Chairman of the board of a company.**
(1) No improvement
(2) Who
(3) Whose
(4) Whom

**99. Where are you coming from?**
(1) were you from
(2) you are coming from
(3) No improvement
(4) do you come from

**100. Covering thirty kilometres in thirty minutes are not a great distance using a brand new car.**
(1) is not a great distance
(2) No improvement
(3) is no distance
(4) aren't a great distance