

Time: 2 Hour

Total Marks: 55

Aptitude

Subjects : Arithmetic, Data Interpretation, Logical Reasoning, Non Verbal Reasoning, Verbal Ability, Verbal Reasoning

Section 1

Subject: Arithmetic

1. A man can row upstream at 8 kmph and downstream at 13 kmph. The speed of the stream is :
(a) 2.5 km/hr (b) 4.2 km/hr
(c) 5 km/hr (d) 10.5 km/hr
2. Arun obtained 76, 65, 82, 67 and 85 marks (out in 100) in English, Mathematics, Chemistry, Biology and Physics. What is his average mark?
(a) 53 (b) 54
(c) 72 (d) 75
3. The average of six numbers is x and the average of three of these is y . If the average of the remaining three is z , then
(a) None of these (b) $x = y + z$
(c) $2x = y + z$ (d) $x = 2y + 2z$
4. It is decided to construct a 2 metre broad pathway around a rectangular plot on the inside. If the area of the plots is 96 sq.m. and the rate of construction is Rs. 50 per square metre, what will be the total cost of the construction?
(a) Rs.3500 (b) Rs. 4200
(c) Insufficient Data (d) Rs. 4400
5. How many factors of $25 \times 36 \times 52$ are perfect squares?
(a) 20 (b) 24
(c) 30 (d) 36
6. There are 6 boxes numbered 1,2, . . . 6. Each box is to be filled up either with a red or a green ball in such a way that at least 1 box contains a green ball and the boxes containing green balls are consecutively numbered. The total number of ways in which this can be done is:
(a) 5 (b) 21
(c) 33 (d) 60
(e) 27

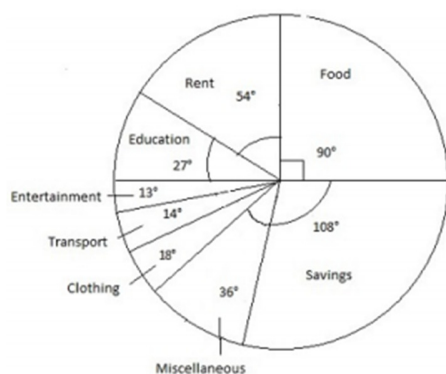
All The Best!!!

7. The ratio of marks obtained by Vinod and Basu is 6:5. If the combined average of their percentage is 68.75 and their sum of the marks is 275, find the total marks for which exam was conducted.
- (a) 150 (b) 200
(c) 400 (d) None of these.
8. Joseph bought two varieties of rice, costing 5 cents per ounce and 6 cents per ounce each, and mixed them in some ratio. Then he sold the mixture at 7 cents per ounce, making a profit of 20 percent. What was the ratio of the mixture?
- (a) 1 : 10 (b) 1 : 5
(c) 2 : 7 (d) 3 : 8
9. A company employed 600 managers and 400 technical executives and the average wage was \$255 per day. If an executive got \$50 less than what a manager got, what were the daily wages of a manager and an executive respectively?
- (a) \$300, \$250 (b) \$350, \$300
(c) \$275, \$225 (d) \$32, \$275
10. Find the average of first 40 natural numbers.
- (a) 20.5 (b) 18
(c) 19.5 (d) 19

Section 2

Subject: Data Interpretation

11. The pie chart given here shows monthly expenses on various heads and savings of the family of Mr Rao. Study the chart and answer the questions based on it.



If the total income of Mr. Rao is Rs.72000, how much house rent does he pay?

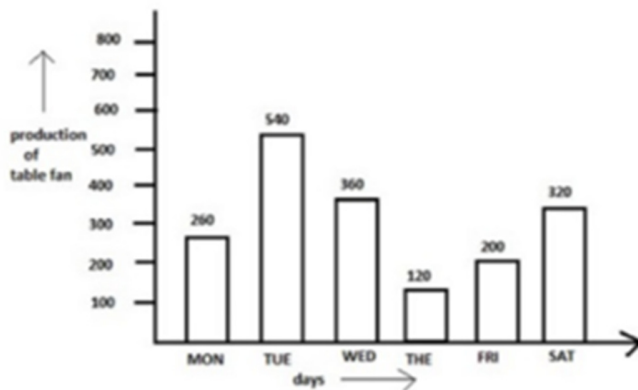
- (a) Rs.5400 (b) Rs.9000
(c) Rs.10800 (d) Rs.12000

12. The table given below represents the amount of education loan (in crores) disbursed by 5 banks of a country over 5 years.

Year वर्ष	Amount of education loan disbursed (in crores) शिक्षा के लिए वितरित ऋण की राशि (करोड़ों में)				
	Bank 1	Bank 2	Bank 3	Bank 4	Bank 5
	बैंक 1	बैंक 2	बैंक 3	बैंक 4	बैंक 5
2010	265	65	138	109	80
2011	295	118	165	123	103
2012	317	85	195	125	140
2013	323	103	178	142	143
2014	352	122	211	157	158

What is the percentage increase in education loan disbursed by Bank 2 from 2010 to 2014?

- (a) 85.42 (b) 87.69
(c) 89.21 (d) 83.18
13. The bar graph shows the production of table fans in a factory during one week. Study the bar graph and answer the question.



The average production of table fans on Monday & Tuesdays exceeds the average production of table fans during the week by

- (a) 150 fans (b) 100 fans
(c) 140 fans (d) 200 fans
14. The table given below represents the cost, revenue and tax rate for XYZ limited for a period of 8 years. Cost and revenue are given in Rs.1000 crores.

- I. Man must die one day.
- II. Death can come at any time.

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either I or II follows
- (d) If neither I nor II follows and
- (e) If both I and II follow.

17. Choose the pair that best represents a similar relationship to the one expressed in the original pair of words.

CONDUCTOR : ORCHESTRA

- (a) Jockey : mount
- (b) Thrasher : hay
- (c) Driver : tractor
- (d) Skipper : crew
- (e) Painter : house

18. The following question consists of three statements are given followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Statements: All buildings are windows. No toys is building. Some tigers are toys.

Conclusions:

- I. Some tigers are buildings.
- II. Some windows are tigers.
- III. All toys are tigers.
- IV. Some windows are toys.

- (a) None follows
- (b) Only I and II follow
- (c) Only III and IV follow
- (d) Only I and III follow
- (e) All follow

19. A good way to approach this type of question is to use the following sentence:
"A _____ could not exist without _____." Find the word that names a necessary part of the underlined word.

directory

- (a) Telephone
- (b) Listing
- (c) Computer
- (d) Names

20. A good way to approach this type of question is to use the following sentence:
"A _____ could not exist without _____." Find the word that names a necessary part of the underlined word.

cell

- (a) Chlorophyll
- (b) Nucleus
- (c) Nerve
- (d) Human

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

Statements:

All fruits are vegetables. All pens are vegetables. All vegetables are rains.

Conclusions:

- I. All fruits are rains.
- II. All pens are rains.
- III. Some rains are vegetables.

- (a) None follows
- (b) Only I and II follow
- (c) Only II and III follow
- (d) Only I and III follow
- (e) All follow

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

Statements: Some rats are cats. Some cats are dogs. No dog is cow.

Conclusions:

- I. No cow is cat.
- II. No dog is rat.
- III. Some cats are rats.

- (a) None follows
- (b) Only I and II follow
- (c) Only II and III follow
- (d) Only III follows
- (e) All I, II and III follow

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

Statements: All dolls are windows. All bottles are windows. All cars are bottles.

Conclusions:

- I. All cars are windows.
- II. Some cars are dolls.
- III. Some windows are cars.

- (a) Only I and II follow
- (b) Only II and III follow
- (c) Only I and III follow
- (d) All follow
- (e) None of these

24. The question below is given a statement followed by three courses of action numbered I, II and III. You have to assume everything in the statement to be true, then decide which of the three given suggested courses of action logically follows for pursuing.

Statement: A large number of students are reported to be dropping out of school in villages as their parents want their children to help them in farms.

Courses of Action:

- I. The government should immediately launch a programme to create awareness among the farmers about the value of education.
- II. The government should offer incentives to those farmers whose children remain in schools.
- III. Education should be made compulsory for all children up to the age of 14 and their employment banned.

- (a) Only I and II follow
- (b) Only II and III follow
- (c) Only I and III follow
- (d) All follow
- (e) None of these

25. The following question consists of three statements are given followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Statements: Some tapes are discs. Some discs are cassettes. Some cassettes are songs.

Conclusions:

- 1. Some songs are discs.
- 2. Some cassettes are tapes.
- 3. Some songs are tapes.
- 4. No song is a disc.

- (a) Only either I or IV follows
- (b) Only either II or IV follows
- (c) Only III and IV follow
- (d) Only III and either II or IV follows
- (e) None of these

Section 4

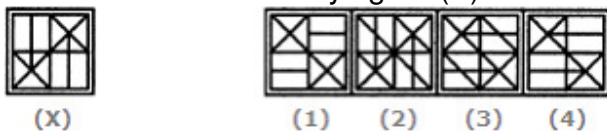
Subject: Non Verbal Reasoning

26. The following question consists of a key figure marked (X) is given, followed by four other alternative figures marked (1), (2), (3) and (4). It is required to select one figure from the alternatives, which fits exactly into figure (X) to form a complete square. Select a figure from the given four alternatives which fits exactly into Figure-X to form a complete square.



- (a) 1
- (b) 2
- (c) 3
- (d) 4

27. Find out how will the key figure (X) look like after rotation.



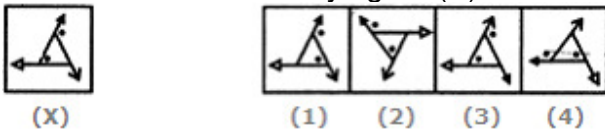
- (a) 1
- (b) 2
- (c) 3
- (d) 4

28. The following question consists of a key figure marked (X) is given, followed by four other alternative figures marked (1), (2), (3) and (4). It is required to select one figure from the alternatives, which fits exactly into figure (X) to form a complete square. Select a figure from the given four alternatives which fits exactly into Figure-X to form a complete square.



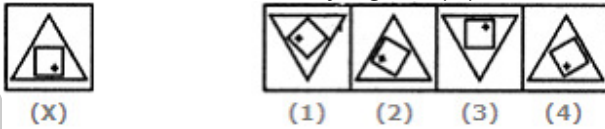
- (a) 1 (b) 2
(c) 3 (d) 4

29. Find out how will the key figure (X) look like after rotation.



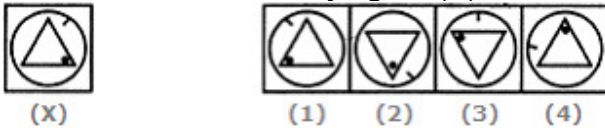
- (a) 1 (b) 2
(c) 3 (d) 4

30. Find out how will the key figure (X) look like after rotation.



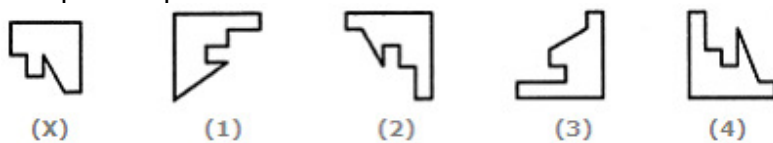
- (a) 1 (b) 2
(c) 3 (d) 4

31. Find out how will the key figure (X) look like after rotation.



- (a) 1 (b) 2
(c) 3 (d) 4

32. The following question consists of a key figure marked (X) is given, followed by four other alternative figures marked (1), (2), (3) and (4). It is required to select one figure from the alternatives, which fits exactly into figure (X) to form a complete square. Select a figure from the given four alternatives which fits exactly into Figure-X to form a complete square.



- (a) 1 (b) 2
(c) 3 (d) 4

33. The following question consists of a key figure marked (X) is given, followed by four other alternative figures marked (1), (2), (3) and (4). It is required to select one figure from the alternatives, which fits exactly into figure (X) to form a complete square. Select a figure from the given four alternatives which fits exactly into Figure-X to form a complete square.



- (a) 1 (b) 2
(c) 3 (d) 4

34. The following question consists of a key figure marked (X) is given, followed by four other alternative figures marked (1), (2), (3) and (4). It is required to select one figure from the alternatives, which fits exactly into figure (X) to form a complete square. Select a figure from the given four alternatives which fits exactly into Figure-X to form a complete square.



- (a) 1 (b) 2
(c) 3 (d) 4

35. Find out how will the key figure (X) look like after rotation.



- (a) 1 (b) 2
(c) 3 (d) 4

Section 5

Subject: Verbal Ability

36. Select the correct Antonyms of : Imprimatur

- (a) Servant (b) Teacher
(c) Disapproval (d) Rustic

37. Select the correct Synonyms of : Vicious

- (a) Worthless (b) Corrupt
(c) Flag (d) Censure

38. Select the correct Antonyms of : Parvenu

- (a) Wallflower (b) Highway
(c) Plan (d) Melody

39. In the given question, a sentence has been given wherein a word/ group of words has been italicised. Some alternatives are suggested for the italicised words/ group of words which improves the sentences. In case no improvement is needed in the sentence, your answer is 'No improvement' or 'No correction required.'

To make him succeed, the correct thing to do is to punish him *until he does not try*.

- (a) Until he tries (b) Until he does try
(c) Until he will not try (d) Until he did not try
(e) No improvement

40. Select the correct Antonyms of : Reprobate

- (a) Sage (b) Elevated
(c) Possess (d) Dismiss

41. In the given question, a sentence has been given wherein a word/ group of words has been italicised. Some alternatives are suggested for the italicised words/ group of words which improves the sentences. In case no improvement is needed in the sentence, your answer is 'No improvement' or 'No correction required.'

If I was you, I would not have joined the party.

- (a) As you (b) If I am
(c) Were I you (d) If I be you
(e) No correction required

42. Select the correct Antonyms of : Rabble

- (a) Order (b) Open
(c) Union (d) Clear

43. Select the correct Antonyms of : Demur

- (a) Embrace (b) Crude
(c) Boisterous (d) Falter

44. Select the correct Antonyms of : Traduce

- (a) Deduce (b) Laud
(c) Converge (d) Presuppose

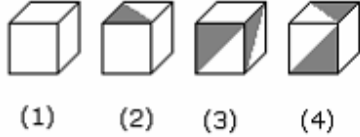
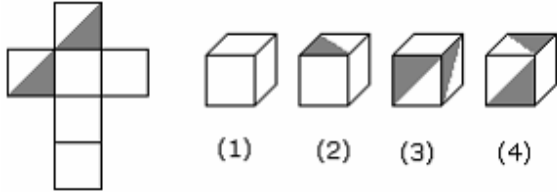
45. Select the correct Antonyms of : Verdant

- (a) Dishonest (b) Suspicious
(c) Mouldy (d) Arid

Section 6

Subject: Verbal Reasoning

46. The figure given on the left hand side in each of the following questions is folded to form a box. Choose from the alternatives (1), (2), (3) and (4) the boxes that is similar to the box formed.



- (a) 1 and 4 only
- (b) 3 and 4 only
- (c) 1 and 2 only
- (d) 2 and 3 only

47. The question below is based on the following information:

1. A + B means A is the mother of B.
2. A - B means A is the sister of B.
3. A * B means A is the father of B.
4. A ÷ B means A is the brother of B.

Which of the following means Q is the grandfather of P?

- (a) P + N * M * Q
- (b) Q * N * M + P
- (c) Q ÷ M ÷ N * P
- (d) None of these

48. The following question consists of three statements. Which are followed by three or four conclusions. Choose the conclusions which logically follow from the given statements.

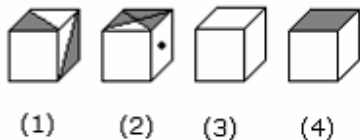
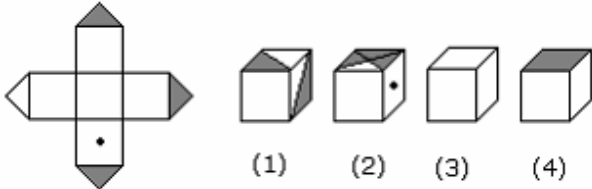
Statements: Some cars are jeeps. All the boxes are jeeps. All the pens are cars.

Conclusions:

1. Some cars are boxes.
2. No pen is jeep.
3. Some boxes are cars.

- (a) None of three
- (b) Only (1) and (2)
- (c) Only (1) and (3)
- (d) Only (2) and (3)

49. The figure given on the left hand side in each of the following questions is folded to form a box. Choose from the alternatives (1), (2), (3) and (4) the boxes that is similar to the box formed.



- (a) 1 and 2 only
- (b) 2 and 4 only
- (c) 2 and 3 only
- (d) 1 and 4 only

50. The following question consists of three statements. Which are followed by three or four conclusions. Choose the conclusions which logically follow from the given statements.

Statements: Some rats are cats. Some cats are dogs. No dog is cow.

Conclusions:

1. No cow is cat.
2. No dog is rat.
3. Some cats are rats.

- (a) Only (1) (b) Only (1) and (2)
(c) Only (1) and (3) (d) Only (2) and (3)
(e) Only (3)

51. The question below is based on the following information:

1. A + B means A is the mother of B.
2. A - B means A is the sister of B.
3. A * B means A is the father of B.
4. A x B means A is the brother of B.

A $\hat{=}$ B means A is the brother of B. Which of the following means that N is the maternal uncle of M?

- (a) N β P - L + E - M (b) N - Y + A β M
(c) M - Y * P - N (d) N β C + F * M
(e) None of these

52. The following problem consists of one question and three statements I, II and III given below the question. You have to decide whether the data given in the statements is sufficient to answer the question. Read all the statements carefully and find which of the statements is/are sufficient to answer the given question. Choose the correct alternative in each question. How is 'DATE' written in the code language?

Statements:

- I. DEAR is written as \$#@? in that code.
- II. TREAT is written as %?#@% in that code.
- III. TEAR is written as %#@? in that code,

- (a) Only I and II (b) Only II and III
(c) All I, II and III (d) Only I and either II or III
(e) None of these

53. The following question consists of three statements. Which are followed by three or four conclusions. Choose the conclusions which logically follow from the given statements.

Statements:

- Some keys are staplers.
Some staplers are stickers.
All the stickers are pens.

Conclusions:

1. Some pens are staplers.
2. Some stickers are keys.
3. No sticker is key.
4. Some staplers are keys.

- (a) Only (1) and (2) (b) Only (2) and (4)

(c) Only (2) and (3)

(d) Only (1) and (4) and either (2) or (3)

54. The following question is based on the following information:

1. M % N means M is the son of N.
2. M @ N means M is the sister of N.
3. M \$ N means M is the father of N.

Which of the following shows the relation that S is the father of Q?

(a) S @ P \$ Q

(b) Q @ P % S

(c) Q \$ S @ P

(d) None of these

55. The following question consists of three statements. Which are followed by three or four conclusions. Choose the conclusions which logically follow from the given statements.

Statements: Some questions are answers. Some answers are writers. All the writers are poets.

Conclusions:

1. Some writers are answers.
2. Some poets are questions.
3. All the questions are poets.
4. Some poets are answers.

(a) Only (1) and (2)

(b) Only (1) and (4)

(c) Only (1) and (3)

(d) Only (2) and (4)

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