



Ashoka Aptitude Test (AAT) – Summary

The Ashoka Aptitude Test (AAT) is conducted online as a part of Ashoka University's Admissions process. The AAT consists of a number of sections and its total duration is 90 minutes.

The AAT is divided into 4 sections, namely:

- **Logical Reasoning**
- **Verbal Aptitude**
- **Quantitative or Numerical Aptitude**
- **Data Interpretation**

The AAT consists of a total of 75 questions. It is structured such that there are 25 questions each on Logical Reasoning and Verbal Aptitude, followed by 20 questions on Quantitative Aptitude and 5 questions on Data Interpretation.

All the questions are multiple-choice questions, wherein each question is followed by four or five choices and the candidate has to select the appropriate option out of the given choices.

For ease and understanding of the candidate, we have briefly listed the chief topics for each of the four sections on which the AAT is based.

Logical Reasoning

This section mainly aims at testing the reasoning skills of the candidate. The topics in this section may vary from Family Relationships, Sequencing and Arrangements (Linear, Circular or Matrix), Coding and Decoding, Cubes, Selection Criteria, Input-Output, Directions, Syllogism, Comparatives, Series, and more.

Verbal Aptitude

The section on Verbal Aptitude includes several questions on Grammar, Vocabulary and Sentence Usage on a broader level. The questions may be based on Synonyms and Antonyms, Analogies, Para Jumbles, Sentence Correction, Spotting Errors, Usage of Idioms and Phrasal Verbs, Critical Reasoning, and more.

Quantitative Aptitude

The section on Quantitative Aptitude mainly includes questions on the Number System, Arithmetic, Algebra, Geometry, basic Trigonometry, Statistics, Coordinate Geometry and Mensuration.

The questions on Arithmetic may be broadly based on Percentages, Simple and Compound Interest, Averages, Ratios and Proportions, Distance and Speed, Time and Work, and Profit, Loss, and Discounts. The questions on Algebra may be on Polynomials, Linear-quadratic Equations and Arithmetic Progressions. Geometry would mainly focus on Triangles, Circles and Constructions. Trigonometry would include Trigonometric Ratios and Identities, Heights, and Distances. Coordinate Geometry would include topics like the Distance between two points, Mid-points and Gradients. Mensuration would largely cover Area and Perimeter of Plane Figures, Surface Area, Volume of simple 3D objects, etc.

The level of the questions in the Quantitative Aptitude section would broadly correspond to the concepts, formulae and topics taught and studied by candidates until Grade X across different examination boards in India.

Data Interpretation

The section on Data Interpretation would include certain diagrammatical representations based on which questions would be asked. These diagrammatical representations may include Bar Graphs, Line Graphs, Pie Charts, Tables and Charts with relevant data provided. The candidate would be required to inspect and analyse the given data to reach certain conclusions and select appropriate choices to answer the questions.



ASHOKA UNIVERSITY - SAMPLE TEST I

Total Time Allotted: 90 Minutes

Total Number of Questions: 75

Note: Please read the following instructions before you start attempting the questions.

- The test consists of four sections, namely, Logical Reasoning, Verbal Aptitude, Quantitative Aptitude and Data Interpretation.
- The duration of the test is 90 minutes, and the total number of questions is 75.
- Each question is followed by four or five choices, out of which the correct one has to be selected.
- The examinee may choose to navigate between questions or sections as per his or her liking.
- You may skip a question, revisit it later and then answer it. The test can be submitted at any point of time.
- The clock will be set at the server. The countdown timer at the top-right corner of the screen will display the remaining time available for you to complete the section or the complete test.

Section – I (Logical Reasoning)

Directions for questions 1 to 5: Study the following information carefully and answer the given questions.

Among Arjun, Vinod, Shiva, Ashish and Aravind, Arjun is taller than Vinod but shorter than Shiva. Vinod is taller than only Aravind. Shiva is not tallest, who among them will be in the middle if they stand in the order of their height?

Q.1. Who is the shortest?

- (a) Aravind (b) Arjun
(c) Ashish (d) Vinod

Q.2. If they stand in the order of the increasing heights, who will be the second?

- (a) Ashish (b) Arjun
(c) Aravind (d) Vinod

Q.3. If they stand in the order of their heights, who will be in the middle?

- (a) Vinod (b) Aravind
(c) Arjun (d) Ashish

Q.4. Who is the second tallest?

- (a) Arjun (b) Shiva
(c) Ashish (d) Vinod

Q.5. Who is taller than Arjun but shorter than Ashish?

- (a) Aravind (b) Vinod
(c) Shiva (d) None of these

Directions for questions 6 to 8: The following questions are based on the code pattern given below.

Letters	X	S	M	A	P	E	D	L	W	T
Digits	1	6	9	8	3	5	0	2	4	7

Which of the given options has the correct coded form of the given letters?

Q.6. **WDSTP**

- (a) 40638 (b) 40975 (c) 40948
(d) 40673 (e) None of these

Q.7. **AMLXE**

- (a) 89213 (b) 89210 (c) 89215
(d) 89015 (e) None of these

Q.8. **EXWTM**

- (a) 51497 (b) 51479 (c) 54179
(d) 51749 (e) None of these

Q.9. If P denotes +, Q denotes −, M denotes × and L denotes ÷, then which of the following statements is true?

- (a) $32P8L16Q4 = \frac{-3}{2}$ (b) $6M18Q26L13P7 = \frac{173}{13}$
(c) $11M34L17Q8L3 = \frac{38}{3}$ (d) $9P9L9Q9M9 = -71$

Q.10. In a certain code 'HEAT' is written as '?*\$@' and 'FINGER' is written as '£•&*©'. How can 'FATHER' be written in that code?

- (a) £\$@?*© (b) \$£@£?*©
(c) @?£©*\$ (d) £\$@?*©

Directions for questions 11 to 15: Study the following information carefully and answer the given questions.

From a set of six men A, B, C, D, E, F and five women S, T, U, V, W, a squad of six is to be selected. Some of the norms of the choice are given as below:

- I. A and V go together.
- II. C cannot be placed with B.
- III. U cannot go with V.
- IV. B goes with T.
- V. D and E have to be together.
- VI. W and F go together.

Unless otherwise stated, these norms (as given above) are applicable to all the following questions.

Q.11. If a squad composed of two women and U is one of them, the other representatives are:

- (a) TBCDE (b) WCDEF (c) WFABD
- (d) SAFDE (e) None of these

Q.12. If both W and D are representatives of the squad and three men in all are included in the squad, the representatives of the squad other than W and D are:

- (a) SVFA (b) TUF E (c) SUEF
- (d) UVFE (e) None of these

Q.13. If the squad has four men including C and F, the representatives of the squad other than C and F are:

- (a) SVAD (b) SVDE (c) TUDE
- (d) SWDE (e) None of these

Q.14. If the squad has three women including V and W, the representatives of the squad other than V and W are:

- (a) ACFS (b) BTCF (c) ABCS
- (d) STBF (e) None of these

Q.15. If four representatives are men, which one of the following cannot form the squad?

- (a) TVABDE (b) SVACDE (c) VWABCF
- (d) VWACEF (e) None of these

Directions for questions 16 to 20: Study the following information carefully and answer the given questions.

Five friends I, J, K, L and M are sitting on a bench. I is sitting next to J, K is sitting next to L, L is not sitting near M, M is on the left end of the bench. K is on the second position from the right. I is on the right side of J and to the right side of M. I and K are sitting together.

Q.16. Where is I sitting?

- (a) Between J and L (b) Between L and K (c) Between J and K
(d) Between K and M (e) Between M and L

Q.17. Who is sitting in the centre?

- (a) I (b) J (c) K
(d) L (e) M

Q.18. K is sitting between:

- (a) J and L (b) I and M (c) L and M
(d) I and L (e) I and J

Q.19. What is the position of L?

- (a) Extreme left (b) Extreme right (c) Third from left
(d) Second from left (e) None of these

Q.20. What is the position of J?

- (a) Second from right (b) Centre (c) Extreme left
(d) Second from left (e) None of these

Directions for questions 21 to 25: Read the following paragraph and answer the questions that follow.

There are four friends Anish, Kumar, Ramu and Navin. One of them is a hockey player and studies English and French. Anish and Kumar play basketball. Anish studies computer. Both the basketball players study physics. Navin is a badminton player. One basketball player also studies chemistry. The badminton player studies physics and commerce. All the friends study two subjects each and play one game each.

Q.21. Who is a hockey player?

- (a) Anish (b) Ramu (c) Kumar
(d) Navin (e) None of these

Q.22. Who does not study physics?

- (a) Ramu (b) Navin (c) Anish
(d) Both Anish and Navin (e) None of these

Q.23. Who studies chemistry?

- (a) Anish (b) Kumar (c) Ramu
(d) Navin (e) None of these

Q.24. Who studies computer and play basketball?

- (a) Anish (b) Kumar (c) Ramu

(d) Navin (e) None of these

Q.25. Who studies English and French?

(a) Anish (b) Kumar (c) Ramu

(d) Navin (e) None of these

Section – II (Verbal Aptitude)

Direction for question 26: Find out the part which has an error in the following sentence.

Q.26. On my request, Patel (a)/introduced me to his cousin (b)/who is famous dancer (c)/No error (d)

Direction for question 27: Choose the most suitable article.

Q.27. It wasunique piece of artwork.

a) the

b) an

c) a

d) no article

Direction for questions 28 and 29: In the following sentences improve the part printed in bold, if needed.

Q.28. If I **were** you, I would not allow them.

a) was

b) am

c) be

d) No improvement

Q.29. I **am** travelling since Monday.

a) had been

b) was

c) have been

d) No improvement

Direction for questions 30 and 31: Pick out the most appropriate word from the given words to fill in the blanks to make the sentence meaningfully complete.

Q.30. She the first prize because of her arduous efforts.

a) achieved

b) earned

c) bagged

d) bestowed

Q.31. You are to pay back what you have borrowed.

a) desired

b) expected

c) wished

d) wanted

Direction for questions 32 and 33: Pick out the word from the given words which completes the relationship with the third word.

Q.32. Worse is to Bad as Doting is to:

a) Reverence

b) Fond

c) Hate

d) Dislike

Q.33. Frown is to Pain as Smile is to:

a) Joy

b) Sorrow

c) Failure

d) Discomfiture

Direction for questions 34 and 35: Find the pair that best represents a similar relationship to the one in the original pair of words in the following questions.

Q.34. **NOTE : SCALE::**

a) Farmland : Crops

b) Factory : Machines

c) Letter : Alphabet

d) Ocean : Waves

Q.35. **DEBRIS : EARTHQUAKE::**

a) Germs : Disease

b) Exhaustion : Workout

c) Famine : Hunger

d) Sleepiness : Soporific

Q.36. Read the paragraph given below and answer the question that follows.

People have become more willing to talk about anxiety disorders and reach out for help. Famous athletes and entertainers talk about their struggles with panic disorders and social phobia. Anxiety disorders are medical illnesses and not signs of weakness or character flaw which develop from everyday anxiety. Although we all have different and evolving relationships with anxiety, learning to manage them can protect you from developing anxiety-related problems.

This paragraph best supports the statement that:

- a) Anxiety disorders are minor illnesses.
- b) Anxiety disorders lead to phobias.
- c) Anxiety disorders are dangerous.
- d) Anxiety disorders are curable.

Direction for question 37: In the following question, choose the word which best expresses the meaning of the given word.

Q.37. Adjunct

- a) Conflicting
- b) Addition
- c) Opposite
- d) Agreement

Direction for question 38: In the following question, choose the alternative which is an improvement upon the *italicised* part. If no improvement is required for the sentence, then choose (d).

Q.38. The stylist had *an old scissor*.

- a) old scissors
- b) a pair of old scissors
- c) an old scissors
- d) no improvement

Direction for question 39: In the following question, out of the four alternatives, choose the one which can be substituted for the given words/sentence.

Q.39. One who runs away from justice or the law

- a) Traitor
- b) Captive
- c) Refugee
- d) Fugitive

Direction for question 40: In the following question, choose the alternative which best expresses the meaning of the idiom/phrase in italics.

Q.40. Though he is from a good family, he himself is *a bad egg*.

- a) Worthless person
- b) Evil person
- c) Strange person
- d) Quarrelsome person

Direction for question 41: Pick out the most appropriate word from the given words to fill in the blanks to make the sentence meaningfully complete.

Q.41. As his shoes are he could walk fast in the hills.

- a) hard
- b) costly
- c) comfortable
- d) good

Direction for question 42: Choose the most suitable article.

Q.42. Give her umbrella which you bought yesterday.

- a) the
- b) an
- c) a
- d) no article

Direction for question 43: Fill in the blanks with the most suitable form of the alternatives.

Q.43. The hotels of Mumbai are more luxurious than of Patna.

- a) this
- b) that
- c) those
- d) such

Direction for question 44: Find out the part which has an error in the following sentences.

Q.44. I met a girl named Jade (a) / She was the more beautiful (b) / than any other girl in her class. (c) / No error (d)

Direction for question 45: In the following question, out of the four alternatives, choose the one which matches the words in the question.

Q.45. A person with unconventional habits

- (a) Eccentric
- (b) Lunatic
- (c) Cynical
- (d) Introvert

Direction for question 46: In the following sentence, choose the alternative which is an improvement upon the italicized part. If no improvement is required for the sentence, then choose (d).

Q.46. She hates cheese, *isn't she*?

- a) hasn't she
- b) didn't she
- c) doesn't she
- d) no improvement

Direction for question 47: In the following question, out of the four alternatives, choose the one which can be substituted for the given phrase.

Q.47. Fastidious

- a) One who is consistently obedient
- b) One who is very selective in one's taste
- c) One who fasts often
- d) One who is obsessed with accuracy

Direction for question 48: In the following question, choose the alternative which best expresses the meaning of the idiom/phrase in italics.

Q.48. It was through *elbow grease* that he became successful.

- a) Persistence
- b) Counterfeitness
- c) Flattery
- d) Hard work

Direction for Question 49: In the following question, choose the word which is most opposite in meaning to the given word.

Q.49. Termagant

- a) Awkward
- b) Charming

- c) Unreal
- d) Inquisitive

Direction for question 50: Choose the most suitable alternative to make a proper sentence.

Q.50. What a sensation it would cause if it now discovered that such a man had left behind a diary.

- a) is
- b) were
- c) be
- d) was

Section – III (Quantitative Aptitude)

Q.51. Find the area of a sector of a circle with radius 9 cm if the angle of the sector is 60° .

- (a) $7/297$
- (b) $296/7$
- (c) $704/21$
- (d) $297/7$

Q.52. If the points $(3, 4)$, $(5, m)$ and $(7, -4)$ are collinear, find the value of m .

- (a) 2
- (b) 1
- (c) 0
- (d) 3

Q.53. A boat started its journey downstream at 8:00 AM. It reached a point at 1:00 PM which is 25 km away from the starting point, while for covering the same distance upstream it takes 6 hours. What is the speed of the boat in still water?

- (a) 4.65 km/h
- (b) 5 km/h
- (c) 4.95 km/h
- (d) 4.59 km/h

Q.54. The probability of an event that is certain to happen is 1. Such an event is called _____.

- (a) sure event
- (b) unsure event
- (c) impossible event

(d) none of these

Q.55. Which of the following can be the probability of an event?

(a) $0 \leq P(E) < 1$

(b) $0 < P(E) \leq 1$

(c) $0 \leq P(E) \leq 1$

(d) $0 < P(E) < 1$

Q.56. If $\cos(40^\circ + x) = \sin 30^\circ$, find the value of x .

(a) 40°

(b) 60°

(c) 30°

(d) 20°

Q.57. Which of the following is a quadratic equation?

(a) $x^3 - 1 = 0$

(b) $4x^2 + 5x + 5 = 5x + 30$

(c) $x^2 - x - 2 = x^2 + 2x - 3$

(d) $x^2 + 3x + 1 = x^2 - 4x + 4$

Q.58. Determine the value of k in the equation $2x^2 - kx + 1 = 0$.

(a) $k = -2\sqrt{2}$ or $k = 2\sqrt{2}$

(b) $k = -4\sqrt{2}$ or $k = 4\sqrt{2}$

(c) $k = -8$ or $k = 8$

(d) None of these

Q.59. Find the sum of the arithmetic progression (AP): 7, 2, -3, -8.....22 terms

(a) 1001

(b) -1001

(c) -1010

(d) 1010

Q.60. Write the formula for the sum of first n positive integers.

(a) $\frac{n(n-1)}{2}$

(b) $\frac{(n+1)}{2}$

(c) $n(n+1)$

(d) $\frac{n(n+1)}{2}$

Q.61. Find the prime factorisation of 650.

(a) $2 \times 5 \times 13$

(b) $2 \times 5^2 \times 13$

(c) $2^2 \times 5 \times 13$

(d) $2 \times 5^2 \times 3$

Q.62. Write the irrational numbers from the following: $23, \sqrt{3}, -12, 7\sqrt{5}, \frac{9}{30}, 8 - \sqrt{2}, \frac{1}{\sqrt{5}}$.

(a) $\sqrt{3}, 7\sqrt{5}, \frac{9}{30}, 8 - \sqrt{2}, \frac{1}{\sqrt{5}}$.

(b) $\frac{9}{30}, \frac{1}{\sqrt{5}}$

(c) $\sqrt{3}, 7\sqrt{5}, 8 - \sqrt{2}, \frac{1}{\sqrt{5}}$

(d) $23, -12$

Q.63. The amount of ₹33,630 is divided among A, B and C in such a manner that the ratio of the amount of A to that of B is 3 : 7 and the ratio of the amount of B to that of C is 6 : 5. The amount of money received by B is: _____.

(a) ₹14,868 (b) ₹16,257

(c) ₹13,290 (d) ₹12,390

Q.64. What percentage of decrease in salary would exactly cancel out the 20% increase in the salary?

(a) 20% (b) $16\frac{2}{3}\%$

- (c) $33\frac{1}{3}\%$ (d) 18%

Q.65. A shopkeeper offers a discount of 10% on his articles. The marked price of the article is ₹450, then the selling price should be _____.

- (a) ₹395 (b) ₹410
(c) ₹405 (d) ₹400

Q.66. The profit obtained after selling a commodity for ₹524 is the same as the loss obtained after selling it for ₹452. The cost price of the commodity is _____.

- (a) ₹480 (b) ₹500
(c) ₹488 (d) ₹485

Q.67. Ram travelled 1200 km by air which formed $\frac{2}{5}$ th of his trip. He travelled $\frac{1}{3}$ rd of the trip by car and the rest by train. The distance (in km) travelled by train was _____.

- (a) 480 (b) 800
(c) 1600 (d) 1800

Q.68. How many terms of series '1 + 2 + 3 + ...' add up to 5050?

- (a) 50 (b) 51
(c) 100 (d) 101

Q.69. The sum of the real roots of the equation $x^2 + |x| - 6 = 0$ is _____.

- (a) 4 (b) 0
(c) -1 (d) None of these

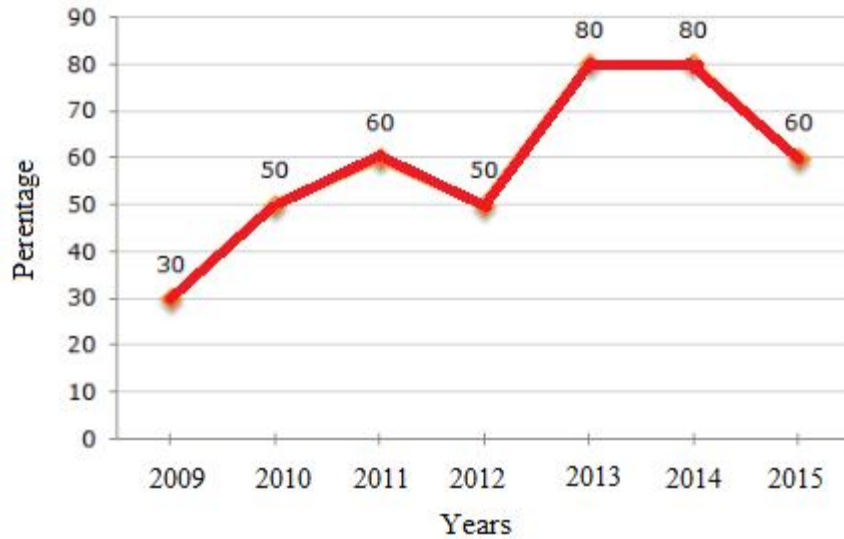
Q.70. If $x \times y = x^2 + y^2 - xy$, then 11×13 is _____.

- (a) 117 (b) 147
(c) 290 (d) 433

Section – IV (Data Interpretation)

Directions for questions 71 and 72: Study the line chart given below to answer the following questions.

**THE PERCENTAGE OF THE NUMBER OF CANDIDATES QUALIFIED FOR A
COMPETITIVE EXAMINATION OVER A PERIOD OF SEVEN YEARS FROM 2009 TO 2015**



Q.71. Which of the following options denote the minimum difference between the percentages of candidates qualified to appear?

- (a) 2010 and 2011
- (b) 2011 and 2012
- (c) 2012 and 2013
- (d) 2013 and 2014

Q.72. What is the percentage increase in the number of candidates who qualified in the year 2013 from the previous year? (Round off to two digits after decimal.)

- (a) 37.5%
- (b) 60%
- (c) 50%
- (d) 80%

Directions for questions 73 to 75: Refer to the following table to answer the questions that follow.

The following table gives the sales of LED television sets manufactured by a company over the years.

Number of different types of LED television sets sold by a company over the years
(Number in lakhs)

Year	Size of LED television sets (inches)					Total
	22	24	32	40	49	
2009	85	154	124	112	118	593
2010	100	136	112	94	136	578
2011	106	124	85	115	145	575
2012	115	100	160	100	85	560
2013	100	85	145	85	100	515

2014	115	70	175	55	130	545
2015	125	95	170	110	155	655

Q.73. What was the approximate percentage increase/decrease in the sales of 32-inch LED television sets in 2014 compared to that in 2010?

- (a) 36%
- (b) 56%
- (c) 57%
- (d) 64%

Q.74. For which LED television set is the total sales of all the seven years the maximum?

- (a) 22-inch television
- (b) 24-inch television
- (c) 32-inch television
- (d) 49-inch television

Q.75. What is the difference in the number of 40-inch television sets sold in 2010 and 2015?

- (a) 1,600,000
- (b) 1,500,000
- (c) 15,000,000
- (d) 16,000,000

Answers

Section – I

1 - a	2 - d	3 - c	4 - b	5 - c	6 - d	7 - c	8 - b	9 - d	10 - a
11 - b	12 - c	13 - d	14 - a	15 - e	16 - c	17 - a	18 - d	19 - b	20 - d
21 - b	22 - a	23 - b	24 - a	25 - c					

Section – II

26 - c	27 - c	28 - d	29 - c	30 - c	31 - b	32 - b	33 - a	34 - c	35 - d
36 - d	37 - b	38 - b	39 - d	40 - a	41 - c	42 - a	43 - c	44 - a	45 - a
46 - c	47 - b	48 - d	49 - b	50 - b					

Section – III

51 - d	52 - c	53 - d	54 - a	55 - c	56 - d	57 - b	58 - a	59 - b	60 - d
61 - b	62 - c	63 - a	64 - b	65 - c	66 - c	67 - b	68 - c	69 - b	70 - b

Section – IV

71 - d	72 - b	73 - b	74 - c	75 - a
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ASHOKA UNIVERSITY – SAMPLE TEST II

Total Time Allotted: 90 Minutes

Total Number of Questions: 75

Note: Please read the following instructions before you start attempting the questions.

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Section – I (Logical Reasoning)

Directions for Questions 1 to 5: In the question given below are three statements followed by two conclusions numbered (I) and (II). You have to consider the three given statements to be true even if they seem to be at variance from the commonly known facts and judge the conclusions on the basis of it. Choose the correct option based on the conclusions chosen.

- a) If only conclusion I follows.
- b) If only conclusion II follows.
- c) If either conclusion I or II follows.
- d) If neither conclusion I or II follows.
- e) If both conclusions I and II follow.

Q.1. Statements:

- i. All shoes are slippers.
- ii. No slipper is socks.
- iii. All socks are boots.

Conclusions:

- I. Some boots are shoes.
- II. No boot is shoes.

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I or II follows.

- (e) If both conclusions I and II follow.

Q.2. Statements:

- i. All roses are jasmines.
- ii. All jasmines are orchids.
- iii. Some orchids are marigolds.

Conclusions:

- I. Some marigolds are roses.
- II. Some orchids are roses.

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I or II follows.
- (e) If both conclusions I and II follow.

Q.3. Statements:

- i. All shelters are companies.
- ii. Some companies are buildings.
- iii. All buildings are huts.

Conclusions:

- I. Some huts are companies.
- II. Some buildings are shelters.

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I or II follows.
- (e) If both conclusions I and II follow.

Q.4. Statements:

- i. Some laptops are computers.
- ii. Some computers are tabs.
- iii. All tabs are desktops.

Conclusions:

- I. Some desktops are laptops.
- II. Some computers are desktops.

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I or II follows.

(e) If both conclusions I and II follow.

Q.5. Statements:

- i. All cars are boats.
- ii. No boat is ship.
- iii. Some ships are bikes.

Conclusions:

- I. Some boats are bikes.
- II. Some bikes are boats.

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I or II follows.
- (e) If both conclusions I and II follow.

Directions for Questions 6 to 10: Study the following seating arrangement carefully and answer the given questions.

A, B, C, D, E, F, G and H are eight persons sitting around a circular table. Four of them are looking towards the table and persons on their both sides looking away from the table. A and B sit on the opposite sides and looking towards the centre. C is second to the left of E. F is on the immediate right of B. G is between E and F and facing D.

Q.6. Who is sitting on the immediate left side of E?

- (a) A
- (b) G
- (c) H
- (d) None of these

Q.7. Which of the following is looking away from the centre?

- (a) E
- (b) H
- (c) Both E and H
- (d) None of these

Q.8. Who is sitting on the immediate right side of A?

- (a) H
- (b) C
- (c) E
- (d) F

Q.9. Who is sitting between B and D?

- (a) H

- (b) F
- (c) C
- (d) G

Q.10. Who is the sitting second to the left of H?

- (a) D
- (b) E
- (c) F
- (d) None of these

Q.11. Find the missing element in the given series.

AF, DI, GL, _____, MR

- (a) JO
- (b) KP
- (c) IO
- (d) JP

Q.12. Find the next element in the series 25, 29, 85, 89, _____?

- (a) 105
- (b) 109
- (c) 145
- (d) 95

Q.13. Pick the odd one out.

- (a) Android
- (b) MS Office
- (c) Windows
- (d) Linux

Q.14. If **Printer : Paper**, then **Pen : ?**

- (a) Refill
- (b) Pencil
- (c) Paper
- (d) Book

Q.15. Which of the following will come at the fourth place, if all of them are arranged in alphabetical order as per the dictionary?

Normal Norm Notion Notice Novel

- (a) Norm
- (b) Notion
- (c) Novel
- (d) Notice

Directions for questions 16 to 19: Read the following details and answer the given questions.

The six members of a family S, T, U, V, W and X are travelling together. T is the son of U but U is not the mother of T. S and T are married couple. W is the brother of U. V is the daughter of S. X is the brother of T.

Q.16. Who is the mother of V?

- (a) T
- (b) X
- (c) U
- (d) S
- (e) None of these

Q.17. How many children does S have?

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None of these

Q.18. Which of the following is a pair of females?

- (a) SW
- (b) SV
- (c) TV
- (d) VX
- (e) None of these

Q.19. How is X related to V?

- (a) Father
- (b) Brother
- (c) Uncle
- (d) Grandfather
- (e) None of these

Q.20. Arun is facing south-east. I turn 45° in the anticlockwise direction, then 225° in the clockwise direction and then another 135° in the same direction. In which direction is Arun facing now?

- (a) East
- (b) South
- (c) South-west
- (d) South-east
- (e) None of these

Directions for Questions 21 to 25: Study the following information carefully and answer the questions given below:

A, B, C, D, E, F, G and H are eight students who were travelling in three different cars namely X, Y and Z. Each car has at least two persons in it. They travel in a car to three different places namely Darjeeling,

Chennai and Andhra. There is at least one female student in each car. D is travelling with G to Darjeeling but not in car Y. A is travelling with only H in car Z but not to Chennai. C is not travelling with either D or E. F and D are studying in the same only girls' college. H, B and G are studying in the same only boys' college.

Q.21. Which of the following represents the group of females among them?

- (a) F,C,A
- (b) F,G,A
- (c) D,C,A
- (d) Data inadequate

Q.22. Which of the following combinations is correct?

- (a) Darjeeling–X–D
- (b) Chennai–X–F
- (c) Andhra–Z–E
- (d) None of these

Q.23. In which car are four of them travelling?

- (a) X
- (b) Y
- (c) Z
- (d) None of these

Q.24. In which of the following cars is C travelling?

- (a) X
- (b) Y
- (c) Z
- (d) X or Y

Q.25. In which of the following cars are passengers headed for Chennai?

- (a) Y
- (b) Z
- (c) Either X or Y
- (d) X

Section – II (Verbal Ability)

Direction for Question 26: Choose the most suitable article.

Q.26. The people of city were hospitable.

- a) the
- b) an
- c) a
- d) no article

Direction for Question 27: Pick out the most appropriate word from the given words to fill in the blanks to make the sentence meaningfully complete.

Q.27. During festive seasons, we must the train tickets in advance.

- a) buy
- b) draw
- c) take
- d) book

Direction for Question 28: the question given contains a short paragraph, and each paragraph presents an argument. Read the paragraph carefully and determine the main point the author is trying to make.

It is difficult to imagine modern society without the benefits of chemicals. However, with the rise of chemical manufacture, there is an increasing awareness and concern regarding the presence of chemicals in the environment. There is a distinction between contamination and pollution. The term 'contamination' is used where a chemical is present in a given sample with no evidence of harm, and 'pollution' is used in cases when the presence of chemical is causing harm. Pollutants are chemicals causing environmental harm.

Q.28. This paragraph best supports the statement that:

- a) Chemicals are harmful to the environment.
- b) Not all chemicals cause pollution.
- c) Contamination in greater levels cause pollution.
- d) Chemical manufacture has to be reduced.

Direction for Questions 29 to 31: In the given question, choose the word which best expresses the meaning of the given word.

Q.29. **Feud**

- a) Harmony
- b) Conspiracy
- c) Violence
- d) Strife

Q.30. **Knave**

- a) Lazy
- b) Dishonest
- c) Compassionate
- d) Marvellous

Q.31. **Epitome**

- a) Example
- b) Expansion
- c) Exquisite
- d) Elude

Direction for Question 32: In the given question, choose the alternative which is an improvement upon the italicised part. If no improvement is required for the sentence, then choose (d).

Q.32. Due to floods, the people had to leave their houses *within no time*.

- a) in time
- b) without taking much time
- c) in no time
- d) no improvement

Direction for Question 33: In the given question, choose the alternative which best expresses the meaning of the idiom/phrase in italics.

Q.33. It is not *my pigeon* to manage the finances.

- a) one's ability
- b) one's interest
- c) one's responsibility
- d) one's work

Direction for Questions 34 and 35: In the given question, some parts of a sentence have been jumbled up. Rearrange these parts to produce the correct sentence.

Q.34. This procedure:

P: although its practice
Q: is readily described
R: demands instructions
S: and experience

The proper sequence should be:

- a) Q P R S
- b) S P R Q
- c) P S R Q
- d) Q R P S

Q.35. We should avoid:

P: even it serves to convey our ideas
Q: as much as possible
R: the use of slang
S: in a forceful manner.

The proper sequence should be:

- a) R Q P S
- b) S P Q R
- c) R P Q S
- d) S Q P R

Direction for Questions 36 to 38: In the given question, choose the word which is most opposite in meaning to the given word.

Q.36. **Perfunctory**

- a) Concrete
- b) Slow
- c) Careful
- d) Careless

Q.37. **Irascible**

- a) Kind
- b) Rude
- c) Roguish
- d) Friendly

Q.38. **Levity**

- a) Solemnity
- b) Acquittal
- c) Frivolity
- d) Thrifty

Direction for Question 39: In the given question, improve the part printed in bold, if needed.

Q.39. Our country **increased** in population.

- a) has increased
- b) is increasing
- c) has been increased
- d) No improvement

Direction for Questions 40 and 41: In the given question, choose one out of the given alternatives that can be substituted with the given word/phrase.

Q.40. **The plants of a particular region**

- a) Fauna
- b) Biota
- c) Flora
- d) Plantation

Q.41. **Interregnum**

- a) Period between two reigns or governments
- b) Period between two wars
- c) Period between two treaties
- d) Period between two revolutions

Direction for Question 42: In the given question, choose the word which is most opposite in meaning to the given word.

Q.42. Gallant

- a) Ferocious
- b) Brave
- c) Pale
- d) Spineless

Direction for Question 43: In the given question, some parts of a sentence have been jumbled up. Rearrange these parts to produce the correct sentence.

Q.43. Northerners,

P: of depth of degradation involved in it

Q: having no conception

R: thinking it as perpetual bondage only

S: know nothing at all about slavery

The proper sequence should be:

- a) P Q R S
- b) S R Q P
- c) P R Q S
- d) S Q R P

Direction for Questions 44 and 45: The question given contains either one or two blanks. A blank indicates that a word or brief phrase has been omitted. Select among the five choices the word or phrase for each blank that best fits the meaning of the sentence as a whole.

Q.44. Charu had never visited Kempty Falls, but she could appreciate their splendour _____ through the descriptions of others.

- a) vicariously
- b) heedlessly
- c) innocuously
- d) mystically
- e) voluminously

Q.45. Dependence by primitive humans on their environment would not have permitted them to be _____ the effects of the surrounding world on them.

- a) intrigued by
- b) protected from
- c) indifferent about
- d) surprised by
- e) knowledgeable about

Direction for Question 46: In the given question, choose the alternative which is an improvement upon the italicised part. If no improvement is required for the sentence, then choose (d).

Q.46. Three years ago today, I *am sitting* in a small German van, driving across Berlin towards Dresden.

- a) was sitting
- b) have been sitting
- c) sat
- d) no improvement

Direction for Question 47: In the given question, out of the four alternatives, choose the one which matches the words in the question.

Q.47. **The study of ancient writing**

- a) Lexicography
- b) Calligraphy
- c) Lithography
- d) Palaeography

Direction for Question 48: Find the pair that best represents a similar relationship to the one in the original pair of words in the following question.

Q.48. **Pertinent : Relevance ::**

- a) Benevolent : Perfection
- b) Redundant : Important
- c) Prevalent : Universality
- d) Insistent : Rudeness

Direction for Question 49: Fill in the blanks with the most suitable form out of the alternatives given.

Q.49. Rahul is one of who can shoot a slingshot with great accuracy.

- a) them
- b) ones
- c) these
- d) those

Direction for Question 50: Choose the most suitable alternative to make a proper sentence.

Q.50. either of the two candidates been selected for the post of Manager?

- a) Have
- b) Was
- c) Has
- d) Were

Section – III (Quantitative Aptitude)

Q.51. The type of decimal expansion of $\frac{22}{7}$ is:

- (a) terminating decimal expansion
- (b) non-terminating decimal expansion
- (c) non-terminating repeating decimal expansion
- (d) A and B

Q.52. Find a quadratic polynomial with the given numbers as the sum and product of its zeroes $0, \sqrt{3}$ respectively.

- (a) $x^2 - \sqrt{3}$
- (b) $x^2 + \sqrt{3}$
- (c) $x^2 - 3$
- (d) $x^2 + 3$

Q.53. 4 kg of oranges and 3 kg of litchi together cost ₹36.50 while 3 kg of oranges and 2kg of litchi cost ₹26.50. Represent this situation algebraically.

- (a) $4x + 3y = 36.50, 3x + 2y = 26.50$
- (b) $\frac{x+y}{7} = 36.50, \frac{x+y}{5} = 36.50$
- (c) $7(x+y) = 36.50, 5(x+y) = 36.50$
- (d) $7x = 36.50, 5y = 26.50$

Q.54. The average runs scored by a batsman in 20 matches is 40. In the next 10 matches, the batsman scored an average of 13 runs. Find his average in all the 30 matches.

- (a) 53 runs
- (b) 25 runs
- (c) 31 runs
- (d) 30 runs

Q.55. Find the nature of the roots of $2x^2 - 5x - 4 = 0$.

- (a) Two equal real roots
- (b) No real roots
- (c) Two distinct real roots
- (d) None of these

Q.56. Choose the correct answer from the following options.

40th term of the Arithmetic Progression: 8, 5, 2, -1.....

- (a) 109
- (b) -109
- (c) -190
- (d) 190

Q.57. Find the missing terms of the given Arithmetic Progression: \square , 25, \square , 37

- (a) $\square{-19}$ and $\square{-31}$
- (b) $\square{19}$ and $\square{-31}$
- (c) $\square{-19}$ and $\square{31}$
- (d) $\square{19}$ and $\square{31}$

Q.58. All the congruent figures are _____ but the converse is _____.

- (a) not similar, true
- (b) similar, true
- (c) similar, not true
- (d) not similar, not true

Q.59. PQR and QST are two equilateral triangles such that S is the midpoint of QR. Then the ratio of the triangles PQR and QST is:

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

Q.60. A right triangle has hypotenuse of length h cm and one side of length a cm. If $h - a = 1$, express the length of the third side of the right triangle in terms of h .

- (a) $2h + 1$ cm
- (b) $2h - 1$ cm
- (c) $\sqrt{2h + 1}$ cm
- (d) $\sqrt{2h - 1}$ cm

Q.61. Find $\sin 68^\circ + \cos 74^\circ$ in terms of trigonometry ratios of angles between 0° and 45° .

- (a) $\cos 22^\circ - \sin 16^\circ$
- (b) $\cos 16^\circ + \sin 22^\circ$
- (c) $\cos 22^\circ + \sin 16^\circ$
- (d) $\cos 16^\circ - \sin 22^\circ$

Q.62. Find the value of $(\sec A - \tan A)(1 + \sin A)$.

- (a) $\cos A$
- (b) $\sin A$
- (c) $\sec A$
- (d) $\operatorname{cosec} A$

Q.63. The population of a village increases annually at the rate of 25%. If it is 10,000 at the end of 3 years, the population in the beginning of the first year was _____.

- (a) 5120
- (b) 5000
- (c) 4900
- (d) 4500

Q.64. An individual pays 30% of his salary as income tax. On this income tax, he has to pay a surcharge of 10%. The net tax rate he has to pay is _____.

- (a) 45%
- (b) 40%
- (c) 33%
- (d) 27%

Q.65. The cost price of 36 books is equal to the selling price of 30 books. The gain percentage is _____.

- (a) 20%
- (b) $16\frac{4}{6}\%$
- (c) 18%
- (d) $82\frac{2}{6}\%$

Q.66. The average income of 40 persons is ₹4200 and that of another 35 persons is ₹4000. The average income of the whole group is _____.

- (a) ₹4100
- (b) ₹ $4106\frac{1}{3}$
- (c) ₹ $4106\frac{2}{3}$
- (d) ₹ $4108\frac{1}{3}$

Q.67. If ₹126.50 is divided among A, B and C in the ratio of 2 : 5 : 4. The share of B exceeds that of A by:

- (a) ₹36.50
- (b) ₹35.50
- (c) ₹34.50
- (d) ₹33.50

Q.68. A certain distance is covered by a cyclist at a certain speed. If a jogger covers half the distance in double the time, the ratio of the speed of the jogger to that of the cyclist is _____.

- (a) 1 : 4
- (b) 4 : 1

- (c) 1 : 2
(d) 2 : 1

Q.69. A and B can do a piece of work in 72 days. B and C can do it in 120 days. A and C can do it in 90 days. When A, B and C work together, the amount of work that will be finished in 3 days is _____.

- (a) $\frac{1}{40}$
(b) $\frac{1}{30}$
(c) $\frac{1}{20}$
(d) $\frac{1}{10}$

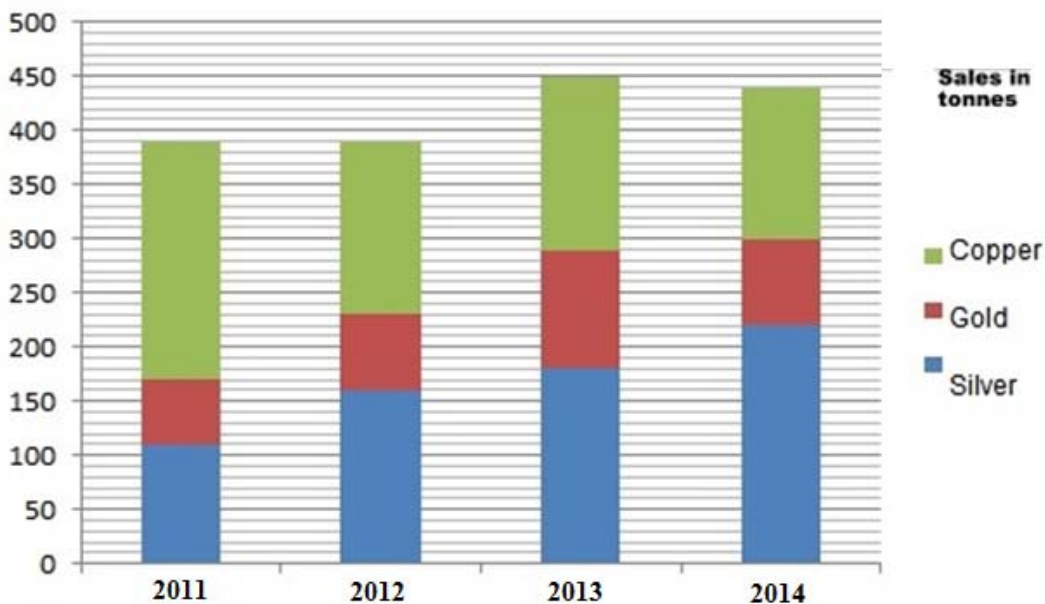
Q.70. A got 30% concession on the label price of an article and sold for ₹8750 with 25% profit on the price which he bought. The label price of the article was _____.

- (a) ₹13,000
(b) ₹16,000
(c) ₹12,000
(d) ₹10,000

Section – IV (Data Interpretation)

Directions for Questions 71 and 72: Refer to the following bar chart and answer the question that follows.

SALES OF COPPER, GOLD AND SILVER DURING THE YEARS 2011 TO 2014



Q.71. What percentage of the average sales of silver in 2013 and 2014 constitute the total sales of copper in 2012 and 2013?

- (a) 150%
- (b) 160%
- (c) 155%
- (d) 175%

Q.72. What will be the sales of gold in 2015, if it is equal to the average sales of gold in 2011, 2013 and 2014 together?

- (a) $83 \frac{2}{3}$ tonnes
- (b) $83 \frac{2}{5}$ tonnes
- (c) $83 \frac{1}{3}$ tonnes
- (d) $83 \frac{1}{5}$ tonnes

Directions for Questions 73 to 75: Refer to the following table and answer the question that follows.

A number of candidates appeared for an interview and got admission under various disciplines at different engineering disciplines during 2005 to 2010. Please see the data given below:

Year	Chemical		Civil		Aerospace		Petroleum		Electrical		Total	
	I*	A**	I*	A**	I*	A**	I*	A**	I*	A**	I*	A**
2005	1274	1090	2108	2068	1180	1140	960	935	1216	1194	6738	6427
2006	1165	1065	2050	1980	1260	1180	1004	985	1132	1120	6611	6330
2007	1108	1024	1860	1815	1132	1040	870	855	1260	1246	6230	5980
2008	1230	1180	1996	1948	1060	980	1094	1070	1191	1170	6571	6348
2009	1492	1372	2530	2500	1465	1425	1160	1040	1242	1222	7889	7559
2010	982	930	3488	3448	1640	1590	1020	1010	1362	1342	8492	8320

*I - Interview

**A - Admission

Q.73. What is the difference between total candidates who appeared for an interview over the six years in Aerospace and Electrical Engineering disciplines?

- (a) 334
- (b) 61
- (c) 66
- (d) 344

Q.74. What is the percentage increase/decrease in the number of candidates admitted in Civil Engineering discipline from the year 2006 to 2007?

- (a) 9.09%
- (b) 8.34%

- (c) 8.33%
- (d) 91.67%

Q.75. What is the percentage of the total number of candidates admitted to the total number of interviewed candidates for all the years in Chemical Engineering discipline?

- (a) 8.1%
- (b) 91.87%
- (c) 8.8%
- (d) 91.86%

SAMPLE



ASHOKA UNIVERSITY – SAMPLE TEST II

Answer Key

Section - I (Logical Reasoning)

1 - c	2 - b	3 - a	4 - b	5 - d	6 - a	7 - c	8 - b	9 - a	10 - c
11 - a	12 - c	13 - b	14 - a	15 - b	16 - d	17 - a	18 - b	19 - c	20 - a
21 - d	22 - a	23 - d	24 - b	25 - a					

Section – II (Verbal Ability)

26 - a	27 - d	28 - b	29 - d	30 - b	31 - a	32 - c	33 - c	34 - a	35 - a
36 - c	37 - d	38 - a	39 - b	40 - c	41 - a	42 - d	43 - b	44 - a	45 - c
46 - a	47 - d	48 - c	49 - d	50 - c					

Section – III (Quantitative Aptitude)

51 - c	52 - b	53 - a	54 - c	55 - c	56 - b	57 - d	58 - c	59 - a	60 - d
61 - c	62 - a	63 - a	64 - c	65 - a	66 - c	67 - c	68 - a	69 - c	70 - d

Section - IV (Data Interpretation)

71 - b	72 - c	73 - a	74 - c	75 - d
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