

## Reasoning Ability

1. In a certain code ARCHIVE is written as DSBGFWJ. How is SYSTEMS written in that code ?  
 (1) TZTSTNF                      (2) TZTUTNF  
 (3) TZTSFNT                    (4) RXRSTNF  
 (5) None of the above
2. How many meaningful English words can be made with the letters TSFI using each letter only once in each word ?  
 (1) None                            (2) One  
 (3) Two                            (4) Three  
 (5) More than three
3. How many such pairs of letters are there in the word CHRONICLE each of which has as many letters between them in the word as in the English alphabet ?  
 (1) None                            (2) One  
 (3) Two                            (4) Three  
 (5) More than three
4. If 'R' denotes 'divided by'; 'T' denotes 'added to'; 'W' denotes 'subtracted from' and 'B' denotes 'multiplied by', then  
 $15W12T8R2B6 = ?$   
 (1)  $\frac{11}{12}$                             (2)  $3\frac{2}{3}$   
 (3) 27                              (4) 3  
 (5) None of the above
5. The positions of the first and the fifth digits in the number 89123654 are interchanged. Similarly the positions of the second and the sixth digits are interchanged and so on. Which of the following will be the second digit from the right end after the rearrangement ?  
 (1) 9                                (2) 8  
 (3) 1                                (4) 2  
 (5) None of these
6. In a certain code BASKET is written as '5%3#42' and ARM written as '@9'. How is TERM written in that code ?  
 (1) 23@9                        (2) 249@  
 (3) 42@9                        (4) 24@9  
 (5) None of the above
7. 'MP' is related to 'HK' in the same way as 'WZ' is related to  
 (1) QS                              (2) RU  
 (3) PS                              (4) QU  
 (5) None of the above
8. What should come next in the following letter series ?  
 IHGFEDCBAIHGFEDCIHGFE  
 (1) I                                (2) D  
 (3) B                              (4) A  
 (5) None of the above
9. Pointing to a boy, Sunita said, "He is the son of my grandfather's only son". How is the boy related to Sunita ?  
 (1) Son                              (2) Nephew  
 (3) Uncle                        (4) Data inadequate  
 (5) None of these
10. The positions of how many digits in the number 53269718 will remain unchanged if the digits within the number are rearranged in ascending order ?  
 (1) None                            (2) One  
 (3) Two                            (4) Three  
 (5) More than three

**Directions (Q. 11-16)** Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and

Give answer (1) if the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

Give answer (2) if the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

Give answer (3) if the data either in statement I alone or in statement II alone are sufficient to answer the questions.

Give answer (4) if the data given in both the statements I and II together are not sufficient to answer the question. Give answer (5) if the data in both the statements I and II together are necessary to answer the question.

11. How is 'sure' written in a code language ?  
 I. 'he is sure' is written as 'ja ha ma' in that code language.  
 II. 'is she sure' is written as 'ka ja ma' in that code language.
12. How is J related to M ?  
 I. M has only one brother and two sisters.  
 II. J is daughter of T who is wife of M.
13. Town P is towards which direction of town T ?  
 I. Town T is towards South of town K which is towards West of town P.  
 II. Town R is towards South of town V and towards East of town T.
14. Among P, Q, R, S and T each having different age, who is the youngest among them ?  
 I. Q is younger than only P.  
 II. S is older than only R.
15. On which day of the week did Sourav visit Delhi ?  
 I. Sourav visited Delhi after Monday but before Thursday but not on an odd day of the week.  
 II. Sourav visited Delhi before Friday but after Monday.
16. What is R's position from the left end in a row ?  
 I. M is tenth from the left end of the row.  
 II. There are sixteen children between M and R.

**Directions (Q. 17–22)** In each of the questions below are given four 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 commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows from the given statements disregarding commonly known facts.

17. **Statements** Some beads are rings. Some rings are bangles. All bangles are clothes. All clothes are boxes.

**Conclusions**

- I. Some boxes are bangles.  
 II. Some clothes are rings.  
 III. Some bangles are beads.

- (1) None follows  
 (2) Only I follows  
 (3) Only II follows  
 (4) Only III follows  
 (5) Only I and II follow

18. **Statements** All desks are pillars. All pillars are circles. Some circles are squares. Some squares are rectangles.

**Conclusions**

- I. Some rectangles are pillars.  
 II. Some circles are desks.  
 III. Some squares are desks.

- (1) None follows  
 (2) Only I follows  
 (3) Only II follows  
 (4) Only III follows  
 (5) Only I and II follow

19. **Statements** Some tyres are ropes. Some ropes are tents. Some tents are walls. Some walls are buildings.

**Conclusions**

- I. Some buildings are ropes.  
 II. Some walls are ropes.  
 III. Some tents are tyres.

- (1) None follows  
 (2) Only I follows  
 (3) Only II follows  
 (4) Only III follows  
 (5) Only I and II follow

20. **Statements** All chairs are fires. Some fires are winds. All winds are nets. Some nets are clocks.

**Conclusions**

- I. Some clocks are winds.  
 II. Some nets are fires.  
 III. Some winds are chairs.

- (1) None follows  
 (2) Only I follows  
 (3) Only II follows  
 (4) Only III follows  
 (5) Only II and III follow

21. **Statements** All sticks are hammers. No hammer is dress. Some dresses are doors. All doors are cots.

**Conclusions**

- I. Some cots are hammers.  
 II. No cot is hammer.  
 III. Some dresses are sticks.

- (1) Only I follows  
 (2) Only II follows  
 (3) Only III follows  
 (4) Only either I or II follows  
 (5) Only either I or II and III follow

22. **Statements** Some plates are knives. All knives are chains. Some chains are wheels. All wheels are poles.

**Conclusions**

- I. Some poles are chains.  
 II. Some wheels are knives.  
 III. Some chains are plates.

- (1) Only I and II follow  
 (2) Only I and III follow  
 (3) Only II and III follow  
 (4) All I, II and III follow  
 (5) None of the above

**Directions (Q. 23–28)** Study the following arrangement carefully and answer the questions given below.

F 4 @ H 2 E % M P 5 W 9 @ I Q R 6 U H 3 Z 7 ★ A T B 8 V # G \$ Y D

23. How many such consonants are there in the above arrangement, each of which is immediately preceded by a number but not immediately followed by a number ?

- (1) None  
 (2) One  
 (3) Two  
 (4) Three  
 (5) More than three

24. Which of the following is the tenth to the right of the nineteenth from the right end of the above arrangement ?

- (1) M  
 (2) T  
 (3) #  
 (4) 2  
 (5) None of these

25. If all the symbols are dropped from the above arrangement, which of the following will be the fourteenth from the left end ?

- (1) R  
 (2) Q  
 (3) U  
 (4) 3  
 (5) None of these

26. What should come in place of the question mark (?) in the following series based on the above arrangement ?

J E M 5 9 1 R U 3 ?

- (1) 7 A B (2) 7 A T  
(3) ★ 7 8 (4) A B V  
(5) None of the above

27. How many such symbols are there in the above arrangement, each of which is immediately preceded by a number and immediately followed by a letter?

- (1) None (2) One (3) Two  
(4) Three (5) More than three

28. Four of the following five are alike in a certain way based on their positions in the above arrangement and so form a group. Which is the one that does not belong to that group ?

- (1) © 2 4 (2) P W M  
(3) R 1 6 (4) R U Q  
(5) V G 8

**Directions (Q. 29–34)** In the following questions, the symbols  $\delta$ , ★, %, @ and © are used with the following meaning as illustrated below.

'P ★ Q' means 'P is not greater than Q'.

'P @ Q' means 'P is neither greater than nor equal to Q'.

'P © Q' means 'P is not smaller than Q'.

'P % Q' means 'P is neither smaller than nor greater than Q'.

'P  $\delta$  Q' means 'P is neither smaller than nor equal to Q'.

Now in each of the following questions assuming the given statements to be true, find which of the three conclusions I, II and III given below them is/are definitely true and give your answer accordingly.

29. **Statements** R © K, K  $\delta$  M, M ★ J

**Conclusions** I. J  $\delta$  K  
II. M @ R  
III. M % R

- (1) None is true  
(2) Only I is true  
(3) Only II is true  
(4) Only either II or III is true  
(5) Only III is true

30. **Statements** W © K, K  $\delta$  R, R % N

**Conclusions** I. N @ K  
II. R @ W  
III. W  $\delta$  N

**Directions (Q. 35–40)** In each question below is given a group of letters followed by four combinations of digits/symbols numbered (1), (2), (3) and (4). You have to find out which of the four combinations correctly represents the group of letters based on the following coding system and the conditions that follows and mark the number of that combination as your answer. If none of the combinations correctly represents the group of letters, marks (5) ie, 'None of these' as your answer.

Letter	R	E	A	U	M	D	F	P	Q	I	O	H	N	W	Z	B
Digit/Symbol Code	7	#	\$	6	%	8	5	★	4	9	@	©	3	$\delta$	1	2

**Conditions**

- (i) If the first letter is a consonant and the third letter is a vowel, their codes are to be interchanged.  
(ii) If the first letter is a vowel and the fourth letter is a consonant, both are to be coded as the code for the vowel.

- (1) Only I and II are true  
(2) Only either II or III true  
(3) Only II and III are true  
(4) Only I and III are true  
(5) All I, II and III are true

31. **Statements** D @ K, K % F, F © B

**Conclusions** I. F  $\delta$  D  
II. B @ K  
III. B % K

- (1) Only I is true  
(2) Only II is true  
(3) Only III is true  
(4) Only either II or III is true  
(5) Only either II or III and I are true

32. **Statements** R  $\delta$  B, B © N, N @ T

**Conclusions** I. N @ R  
II. T  $\delta$  B  
III. T  $\delta$  R

- (1) None is true  
(2) Only I is true  
(3) Only II is true  
(4) Only III is true  
(5) Only I and II are true

33. **Statements** H ★ W, W @ N, N % R

**Conclusions** I. R  $\delta$  W  
II. N  $\delta$  W  
III. H @ R

- (1) Only I and II are true  
(2) Only II and III are true  
(3) Only I and III are true  
(4) All I, II and III are true  
(5) None of the above

34. **Statements** Z % M, M ★ F, F  $\delta$  D

**Conclusions** I. F % Z  
II. F  $\delta$  Z  
III. D @ Z

- (1) Only I is true  
(2) Only either I or II is true  
(3) Only II is true  
(4) Only III is true  
(5) None of the above

(iii) If the second and the third letters are consonants, both are to be coded as the code for the third letter.

35. **OREDHM**

- (1) @7#8©% (2) #7#8©%  
(3) @78#©% (4) @7#@©%  
(5) None of the above

36. NUBAQE  
 (1) 263\$4# (2) 326\$4#  
 (3) 362\$4# (4) 362\$3#  
 (5) None of the above
37. PQIMHZ  
 (1) ★49%©1 (2) %49★©1  
 (3) ★49★©1 (4) 949%©1  
 (5) None of these
38. FWZERA  
 (1) 581#7\$ (2) 588#7\$  
 (3) 5817#\$ (4) 511#7\$  
 (5) None of these
39. HUBDIM  
 (1) ©6289% (2) ©2689%  
 (3) ©6289© (4) ©62©9%  
 (5) None of these
40. EMIRDP  
 (1) #%978★ (2) #%9#8★  
 (3) 7%9#8★ (4) #9%78★  
 (5) None of these

**Directions (Q. 41–45)** Study the following information carefully and answer the questions given below.

A, B, C, D, E, F, G, H and K are sitting around a circle facing the centre. B is fourth to the left of G who is second to the right of C. F is fourth to the right of C and second to the left of K. A is fourth to the right of K. D is not immediate neighbour of either K or B, H is third to the right of E.

41. Who is fourth to the right of D ?  
 (1) K (2) H  
 (3) E (4) B  
 (5) None of these
42. In which of the following combinations is the third person sitting in between the first and second persons ?  
 (1) EKB (2) CHB  
 (3) AGC (4) FGD  
 (5) None of these
43. Who is third to the right of H ?  
 (1) A (2) D  
 (3) G (4) F  
 (5) None of these
44. Who is fourth to the left of E ?  
 (1) A (2) C  
 (3) G (4) Data inadequate  
 (5) None of these
45. Who is second to the right of K ?  
 (1) C (2) H  
 (3) F (4) E  
 (5) Data inadequate

**Directions (Q. 46–50)** Study the following information carefully and answer the given questions.

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

Input : day 74 night 36 25 68 all for  
 Step I : all day 74 night 36 25 68 for  
 Step II : all 74 day night 36 25 68 for  
 Step III : all 74 day 68 night 36 25 for  
 Step IV : all 74 day 68 for night 36 25  
 Step V : all 74 day 68 for 36 night 25  
 and Step V is the last step of the rearrangement of the above input.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

46. Step II of an input is : car 73 18 25 wear 49 long for  
 Which of the following is definitely the input ?  
 (1) 18 25 wear 49 long for car 73  
 (2) 73 18 car 25 wear 49 long for  
 (3) 18 73 25 car wear 49 long for  
 (4) Cannot be determined  
 (5) None of the above
47. Input : war 52 and peace 43 16 now 24  
 How many steps will be required to complete the rearrangement ?  
 (1) Four (2) Five  
 (3) Six (4) Seven  
 (5) None of these
48. Step III of an Input : bond 86 goal 12 33 like high 46  
 Which of the following be step VII ?  
 (1) bond 86 goal 46 like 12 33 high  
 (2) bond 86 goal 46 high like 33 12  
 (3) bond 86 goal 46 high 33 like 12  
 (4) There will be no such step  
 (5) None of the above
49. Step IV of an Input : dear 63 few 51 16 29 yes now  
 How many more steps will be required to complete the arrangement ?  
 (1) Four (2) Five  
 (3) Three (4) Two  
 (5) None of these
50. Input : mind new 27 35 19 59 own tower  
 Which of the following steps will be the last but one ?  
 (1) VI (2) IV (3) V  
 (4) VII (5) None of these

**Directions (Q. 51–55)** Study the following information carefully and answer the questions given below.

Following are the conditions for selecting Management Trainee in an organization :

- The candidate must
- be a graduate with at least 60 percent marks.
  - be not less than 21 years and not more than 28 years as on 1.1.2010.
  - be ready to pay ₹ 50,000 as security deposit.
  - have secured at least 40 percent marks in the selection examination.
  - have secured at least 50 percent marks in personal interview.

In the case of a candidate who has satisfied all the above conditions except

- (a) at (i) above, but has secured at least 65 percent marks in the post graduation, the case is to be referred to GM-personnel.

(b) at (iii) above, but is ready to sign a bond for one year, the case is to be referred to ED-Personnel.

In each question below are given details of one candidate. You have to take one of the following courses of actions based on the information provided and the conditions and sub-conditions given above and mark the number of that course of action as your answer. You are not to assume anything other than the information provided in each question. All these cases are given to you as on 1.1.2010. Mark answer (1) if the data provided are not adequate to take a decision.

Mark answer (2) if the candidate is to be selected.

Mark answer (3) if the candidate is not to be selected.

Mark answer (4) if the case is to be referred to GM-Personnel.

Mark answer (5) if the case is to be referred to ED-Personnel.

51. Abhinav Ghosal has secured 52 percent marks in the personal interview and 40 percent marks in the selection examination. He can pay ₹25,000 as security deposit. Alternatively he can sign a bond of one year. He was born on 3rd December, 1984. He has secured 63 percent marks in graduation.
52. Sohan Awasthi was born on 8th June, 1987. He has secured 55 percent marks in both selection examination and personal interview. He can pay security deposit of ₹ 50000. He has secured 68 percent marks in post graduation and 59 percent marks in graduation.
53. Namita Jaiswal has secured 62 percent marks in graduation and 52 percent marks in the personal interview. She is born on 12th July, 1983. She is ready to pay security deposit of ₹ 50000. She has secured 46 percent marks in the selection examination.
54. Seema Biswas was born on 15th May, 1985. She has secured 65 percent marks in graduation and 70 percent marks in post graduation. She is ready to pay ₹ 50000 as security deposit. She has also secured 45 per cent marks in the selection examination.
55. Anuj Soren was born on 15th March, 1984. He has secured 58 percent marks in graduation and 63 percent marks in post graduation. He has secured 50 percent marks in both selection examination and personal interview. He is ready to pay security deposit of ₹ 50000.

**Directions (Q. 56–60)** In each question below is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Give answer (1) if only Assumption I is implicit.

Give answer (2) if only Assumption II is implicit.

Give answer (3) if either Assumption I or Assumption II is implicit.

Give answer (4) if neither Assumption I nor Assumption II is implicit.

Give answer (5) if both Assumption I and Assumption II are implicit.

56. **Statement** The govt. has decided to earmark a separate lane in the metropolis for passenger vehicles with more than one occupant.

#### Assumptions

I. The move may help decongest the roads of the metropolis.

II. Many people may resort to pool car system to avoid traffic snarls.

57. **Statement** The railway authority has announced that it will carry out major repair work for two days beginning Saturday on the main line connecting the two big cities in the state bringing the rail service to a halt.

#### Assumptions

I. People may reschedule their journey in view of the railway authority's decision.

II. People may still plan their travel by train between the two cities even on these two days.

58. **Statement** The govt. has directed all the degree colleges to declare results of all the examinations within a fortnight after the last date of examination.

#### Assumptions

I. The college authorities may not be able to declare all the results within the stipulated time.

II. Many college authorities may not be able to conduct all the examinations in time.

59. **Statement** Manish invited all his friends to his house for dinner on his birthday and requested his mother to arrange for the birthday party.

#### Assumptions

I. Most of Manish's friends may attend his birthday party.

II. Manish's mother may be able to make all the arrangements including food for all his friends.

60. **Statement** The civic authority of the metropolis has decided to Suspend sanctioning of new building proposals for six months and assess the impact of the current building projects on the city's amenities.

#### Assumptions

I. The builders' lobby may move the court against the civic body's decision.

II. The civic authority may be able to complete the impact study in about six months.

**Directions (Q. 61–65)** Below is given a passage followed by several possible inferences which can be drawn from the facts stated in the passage. You have to examine each inference separately in the context of the passage and decide upon its degree of truth or falsity.

Give answer (1) if the inference is 'definitely true', ie, it properly follows from the statement of facts given.

Give answer (2) if the inference is 'probably true' though not 'definitely true' in the light of the facts given.

Give answer (3) if the 'data are inadequate', ie, from the facts given you cannot say whether the inference is likely to be true or false.

Give answer (4) if the inference is 'probably false', though not 'definitely false' in the light of the facts given.

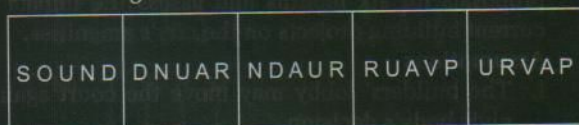
Give answer (5) if the inference is 'definitely false', ie, it cannot possibly be drawn from the facts given or it contradicts the given facts.

Privatization is no panacea when it comes to education. Nor can high-cost intervention at the tertiary stage produce quality talent. The backbone of quality education is primary schooling, and improving that is not just a question of funding. The government has taken some steps to improve the situation by increasing the percentage of allocation in the budget. But it has done precious little to increase the efficacy of public spending in education. For that is a political and administrative task. Teachers who do not turn up to teach at rural schools (absenteeism is about 30% according to one estimate) and teachers who are not equipped or motivated to teach but continue in service with challenge are part of India's socio-political reality.

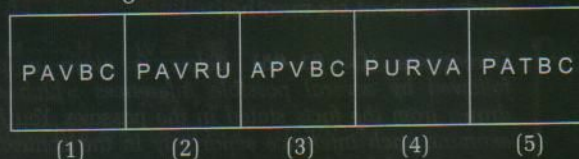
61. Quality of education is ensured in all the privately run educational institutions in India.
62. Motivating the primary school teachers and improving attendance of these teachers are major challenges in India.
63. The Indian Govt. has not done enough to improve the quality of secondary education.
64. Allocating more funds in the budget for primary education will substantially improve the quality of education.
65. Govt. has been unsuccessful in achieving the desired result in education.

**Directions (Q. 66-75)** In each of the questions given below which one of the five answer figures should come after the problem figures, if the sequence were continued?

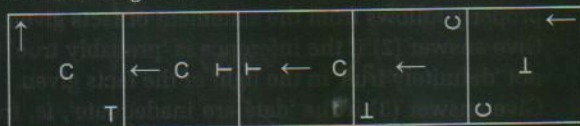
**66. Problem Figures**



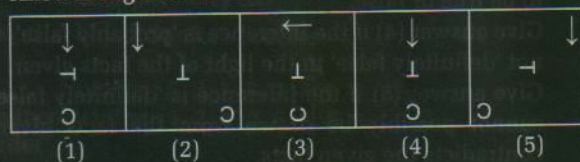
**Answer Figures**



**67. Problem Figures**



**Answer Figures**



**68. Problem Figures**



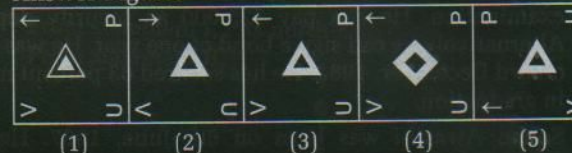
**Answer Figures**



**69. Problem Figures**



**Answer Figures**



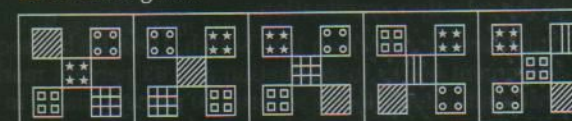
**70. Problem Figures**



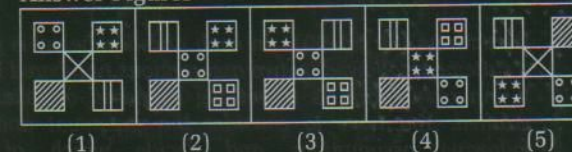
**Answer Figures**



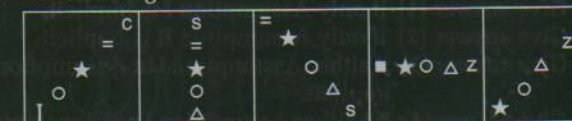
**71. Problem Figures**



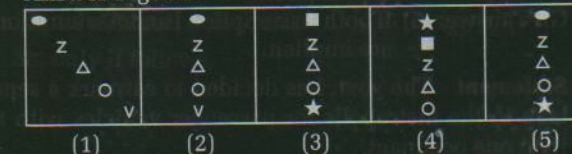
**Answer Figures**



**72. Problem Figures**



**Answer Figures**



73. Problem Figures

↑	s	z	Δ	=	3	⊠	z	U	○	Δ	★	s	U	□
=	★	⊠	★	s	z	Δ	=	s	=	z	U	○	Δ	z
3	○	□	○	□	⊠	★	○	□	○	□	s	=	○	□

Answer Figures

□	z	⊠	s	○	=	⊠	○	=	⊠	=	○	⊠	Δ	=
s	U	Δ	Δ	U	□	Δ	U	□	Δ	U	□	U	○	□
○	=	○	○	□	z	○	□	z	○	□	z	○	□	z
(1)	(2)	(3)	(4)	(5)										

74. Problem Figures

□	○	○	⊠	⊠	○	○	★	○	★
★	s	★	★	○	★	○		★	
B		⊠	z	v	B	○	L		

Answer Figures

★	I	★	I	★	I	★	★	I
○	⊠	○	⊠	○	⊠	⊠	○	I
(1)	(2)	(3)	(4)	(5)				

75. Problem Figures

-	-	○   -	○   -   -	○   -   -   -
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Answer Figures

○   -   -   -	○   -   -   -	○   -   -   -	○   -   -   -	○   -   -   -
(1)	(2)	(3)	(4)	(5)