

Reasoning Ability

1. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to the group ?
 (1) 115 (2) 145 (3) 95
 (4) 155 (5) 75
 2. How many meaningful words can be made from the letters ADEL using each letter only once ?
 (1) None (2) One
 (3) Two (4) Three
 (5) More than three
 3. How many such pairs of letters are there in the word 'ADVERTISE', each of which has as many letters between them in the word, as they have in the English alphabet ?
 (1) None (2) One
 (3) Two (4) Three
 (5) None of these
 4. In a certain code, FUEL is written as \$%#6 and KITE is written as @●7#. How is LIFE written in that code ?
 (1) 6%\$# (2) 6\$%# (3) 6●\$#
 (4) 6%●# (5) None of these
 5. If in the word CUSTOMIZE all the consonants are replaced by the previous letter and all the vowels are replaced by the next letter in English alphabet and then all the letters are arranged alphabetically from left to right, which letter will be fourth from the right ?
 (1) R (2) T
 (3) L (4) M
 (5) None of these
- Directions (Q. 6–10)** 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 statement 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 conclusions logically follows from the given statements disregarding commonly known facts.
6. **Statements** All flowers are fruits. No fruit is juice. Some juices are proteins. All proteins are vitamins.
Conclusions I. Some vitamins are fruits.
 II. Some juices are vitamins.
 III. No flower is juice.
 (1) Only I and II follow
 (2) Only I and III follow
 (3) All, I and II follow
 (4) Only II and III follow
 (5) None of the above
 7. **Statements** Some bags are suits. All suits are trousers. Some trousers are shirts. All shirts are coats.
Conclusions I. Some trousers are coats.
 II. Some bags are trousers.
 III. Some suits are coats.
 (1) Only I and II follow (2) Only I follows
 (3) Only II and III follow (4) All follow
 (5) None of the above
 8. **Statements** All books are novels. Some novels are poems. Some poems are stories. No story is a movie.
Conclusions I. Some books are poems.
 II. Some movies are novels.
 III. No movie is a novel.
 (1) Only I follows
 (2) Only I and II follow
 (3) Only either II or III follows
 (4) None follows
 (5) None of the above
 9. **Statements** All cups are bowls. All bowls are trays. Some trays are plates. No plate is spoon.
Conclusions I. Some bowls are plates.
 II. Some cups are spoons.
 III. No cup is spoon.
 (1) Only I follows (2) Only II follows
 (3) Only II and III follow (4) All follow
 (5) None of these

10. **Statements** Some towers are pillars. Some pillars are buildings. All buildings are flats. No flat is house.
Conclusions I. No building is house.
 II. Some towers are houses.
 III. Some towers are flats.
- (1) None follows
 - (2) Only I follows
 - (3) Only II and III follows
 - (4) All follow
 - (5) None of the above

Directions (Q. 11–15) In these questions the symbols @, #, \$, % and ★ are used with different meanings as follows :

'A @ B' means 'A is not smaller than B'.
 'A # B' means 'A is neither smaller than nor equal to B'.
 'A \$ B' means 'A is neither greater than nor smaller than B'.
 'A % B' means 'A is not greater than B'.
 'A ★ B' means 'A is neither greater than nor equal to B'.
 In each questions, four statements showing relationships have been given, which are followed by three conclusions I, II and III. Assuming that the given statements are true, find out which conclusion(s) is/are **definitely true**.

11. **Statements** V \$ Y, Y @ Z, Z % X, X # T
Conclusions I. T # Z
 II. X # Y
 III. Z ★ Y
- (1) None follows
 - (2) Only I follows
 - (3) Only II and III follow
 - (4) Only I and III follow
 - (5) None of the above
12. **Statements** R @ J, J % F, F ★ E, E % M
Conclusions I. M # J
 II. F % M
 III. M ★ R
- (1) Only I follows
 - (2) Only II follows
 - (3) Only III follows
 - (4) Only I and II follow
 - (5) All follow
13. **Statements** H # R, R @ L, L ★ W, W % F
Conclusions I. H # L
 II. F # L
 III. H \$ F
- (1) Only I follows
 - (2) Only I and II follow
 - (3) Only II and III follow
 - (4) Only either I or II follows
 - (5) All follow
14. **Statements** M # K, M \$ F, F % Q, Q ★ H
Conclusions I. H # K
 II. Q # K
 III. Q @ M
- (1) Only I and II follow
 - (2) Only either I or II follows
 - (3) All I, II and III follow
 - (4) Only II and III follow
 - (5) None of these

15. **Statements** D ★ Q, Q \$ L, L # T, T % H
Conclusions I. D ★ L
 II. L @ H
 III. H ★ L
- (1) Only I follows
 - (2) Only I and II follow
 - (3) Only either II or III follows
 - (4) All I, II and III follow
 - (5) Only I and either II or III follow

Directions (Q.16–20) Given an input line the machine arranges the words and numbers in steps in a systematic manner as illustrated below :

Input line : 56 dress fine shine 32 66 72 offer
 Step I : 72 56 dress fine shine 32 66 offer
 Step II : 72 shine 56 dress fine 32 66 offer
 Step III : 72 shine 66 56 dress fine 32 offer
 Step IV : 72 shine 66 offer 56 dress fine 32
 Step V : 72 shine 66 offer 56 fine dress 32
 Step VI : 72 shine 66 offer 56 fine 32 dress
 Step VI is the last step and the output in Step VI is the final output.

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

16. Step IV of an input is '62 sound 56 sleep roam present 33 49'. What will be the input definitely ?
- (1) sound 62 sleep 56 roam present 33 49
 - (2) sleep sound 62 56 roam present 33 49
 - (3) 62 sound sleep 56 roam present 33 49
 - (4) Can't be determined
 - (5) None of the above
17. Which of the following will be the third step for input : 'jockey firm 36 43 growth chart 22 45' ?
- (1) 45 jockey 43 growth firm 36 chart 22
 - (2) 45 jockey 43 firm growth 36 chart 22
 - (3) 45 jockey 43 growth 36 firm chart 22
 - (4) 45 jockey 43 firm 36 growth chart 22
 - (5) None of the above
18. Step II of an input is '53 window 42 50 door lock key 36'. How many more steps will be required to complete the arrangement ?
- (1) Three
 - (2) Four
 - (3) Five
 - (4) Six
 - (5) None of these
19. What will be the fifth step of an input whose first step is '85 journey train 36 54 daily 28 mansion' ?
- (1) 85 train 54 mansion 28 journey daily 36
 - (2) 85 train 54 mansion journey 36 daily 28
 - (3) 85 train 54 mansion 36 journey daily 28
 - (4) There is no such step
 - (5) None of the above
20. Which step will be the last step for an input whose second step is '63 Sour 18 56 grapes healthy 32 rise' ?
- (1) IV
 - (2) V
 - (3) VIII
 - (4) VII
 - (5) None of these

Directions (Q.21–25) In each question below is given a statement followed by two courses of action numbered I and II. A course of action is a step or administrative decision to be taken for improvement, follow-up or further action in regard to the problem, policy, etc. On the basis of the information given in the statement, You have to assume everything in the statement to be true, then decide which of the suggested courses of action logically follow(s) for pursuing.

- Give answer (1) if only course of action I follows.
- Give answer (2) if only course of action II follows.
- Give answer (3) if either course of action I or II follows.
- Give answer (4) if neither course of action I nor II follows.
- Give answer (5) if both courses of action I and II follow.

21. **Statement** Misuse of subsidies offered to the farmers was observed and brought to the notice of the concerned authorities.

Courses of Action

- I. Government should issue orders to the concerned officials to be stricter and more careful while verifying the required documents while granting subsidy.
- II. Government should take stringent action against those making false claim of subsidy.

22. **Statement** Expensive clothes and accessories are becoming a growing need among college going teenage children of middle-income group.

Courses of Action

- I. Colleges should introduce a dress code.
- II. Children should be counseled emphasizing the importance of many other things.

23. **Statement** People in the locality were agitated as more than thirty people died in a building collapse.

Courses of Action

- I. Government should immediately announce compensations for the affected families.
- II. Authorities should take a stringent action against builders tending to compromise over quality of material used.

24. **Statement** With the onset of monsoon all the hospitals are getting increased number of patients due to various epidemics.

Courses of Action

- I. Civic authorities should educate the public the need for observing minimum required hygiene.
- II. Civic authorities should make arrangements to equip the hospitals with required medicines and other facilities.

25. **Statement** More number of students passing SSC examination has resulted into frustration among children for not getting admissions into colleges of their choice.

Courses of Action

- I. Government should permit the colleges to increase the number of seats.
- II. Children and their parents should be counseled for being flexible on the choice of college.

Directions (Q.26–30) In each of these questions a group of digits is given followed by four combinations of letter/symbol code numbered (1), (2), (3) and (4). You have

to code the group of digits as per the scheme and conditions given below. Serial number of the combination that correctly represents the group of digits is your answer. If none of the combinations is correct, your answer is (5) i.e. 'None of these'.

Digit	5	7	0	9	3	1	6	4	8	2
Letter/ Symbol Code	K	E	H	\$	Δ	A	J	Q	R	@

Conditions

- (i) If the first as well as the last digit is odd their codes are to be interchanged.
- (ii) If the first digit is even and the last digit odd both are to be coded by the code for odd digit.
- (iii) If the last digit is '0' it is to be coded by 'X'.
- (iv) If the first as well as the last digit is even both are to be coded by ★.

26. 586403

- (1) KRJQHΔ
- (2) ΔRJQHK
- (3) ΔHJQRK
- (4) KHJQRA
- (5) None of these

27. 801234

- (1) ★HA@Δ★
- (2) RHA@Δ★
- (3) ★HA@A★
- (4) RHA@ΔQ
- (5) None of these

28. 439157

- (1) QΔ\$AKE
- (2) EΔ\$AKQ
- (3) QΔ\$AKQ
- (4) EΔ\$AKE
- (5) None of these

29. 389160

- (1) ΔR\$AJX
- (2) ΔR\$AJX
- (3) XR\$AJX
- (4) ΔR\$AJΔ
- (5) None of these

30. 764138

- (1) EJQΔΔE
- (2) RJQΔΔE
- (3) RJQΔΔR
- (4) EJQΔΔ★
- (5) None of these

Directions (Q.31–35) These questions are based on the following information. Study it carefully to answer the questions.

Seven officers L, M, N, P, Q, R and S work in three different shifts I, II and III with at least two persons working in each shift. Each one of them has a different weekly off from Monday to Sunday not necessarily in the same order.

M works in second shift only with R whose weekly off is on Friday. Q's weekly off is on the next day of L's weekly off and both of them work in different shifts. P works in third shift and his weekly off is on Saturday. S has a weekly off on Monday and he works in first shift. The one who has a weekly off on Sunday works in first shift. L and P do not work in the same shift, L's weekly off is on Tuesday.

31. Whose weekly off falls on Thursday ?

- (1) L
- (2) N
- (3) Q
- (4) Cannot be determined
- (5) None of these

32. Which of the following combinations of shift, person and weekly off is definitely correct ?
 (1) II, M, Sunday (2) III, N, Sunday
 (3) II, P, Sunday (4) I, L, Tuesday
 (5) None of these
33. Whose weekly off is on Sunday ?
 (1) L (2) M
 (3) N (4) Q
 (5) None of these
34. On which day is Q's weekly off ?
 (1) Tuesday
 (2) Wednesday
 (3) Sunday
 (4) Cannot be determined
 (5) None of these
35. Which of the following group of officers work is shift I ?
 (1) L, N, S (2) L, S
 (3) N, S (4) L, P, Q
 (5) None of these

Directions (Q.36–40) In each of the following questions two rows of numbers are given. The resultant number in each row is to be worked out separately based on the following rules and the questions below the rows of numbers are to be answered. The operations of numbers progress from left to right.

Rules :

- (i) If a two digit odd number is followed by a two digit odd number they are to be added.
- (ii) If a two digit even number is followed by a two digit odd number which is the perfect square, the even number is to be subtracted from the odd number.
- (iii) If a three digit number is followed by a two digit number the first number is to be divided by the second number.
- (iv) If a prime number is followed by an even number the two are to be added.
- (v) If an even number is followed by another even number the two are to be multiplied.

36. 37 12 21
 38 81 14
 What is the difference between the resultants of the two rows ?
 (1) 23 (2) 32
 (3) 13 (4) 18
 (5) None of these
37. 23 15 12
 X 24 49
 If X is the resultant of the first row, what is the resultant of the second row ?
 (1) 24 (2) 25
 (3) 28 (4) 22
 (5) None of these
38. 16 8 32
 132 11 X²
 If X is the resultant of first row, what is the resultant of the second row ?

- (1) 192 (2) 128
 (3) 132 (4) 144
 (5) None of these
39. 345 23 X
 45 17 81
 If X is the resultant of the second row, what is the resultant of the first row ?
 (1) 285 (2) 33
 (3) 135 (4) 34
 (5) None of these
40. 12 28 84
 37 22 18
 What is the sum of the resultants of the two rows ?
 (1) 77 (2) 87
 (3) 84 (4) 72
 (5) None of these

Directions (Q.41–45) 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.

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

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

Mark 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.

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

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

Growth through acquisitions and alliances has become a critical part of creating value for pharma and biotech manufacturers and their shareholders. However, companies and their investors may risk value destruction if they acquire rights to a drug that suddenly poses unanticipated safety risks for patients. Similarly, safety related compliance violations committed by an acquired company could significantly impair the ultimate value of the transaction and the reputation of the acquirer. The pace of deal making between pharma and biotech companies continued to accelerate in 2006, increasing 17% to about \$18 billion. Pharma companies were typically the buyers, and the premiums they paid increased substantially as competition intensified, to secure access to novel drugs and biologics. The stakes increase everyday as competition pushes up prices and drives deal-making to earlier development stages with greater uncertainty and less time to complete through due diligence.

41. Acquisitions of biotech companies was preferred among pharmaceutical companies in the recent past.
42. Biotech companies are not capable to acquire pharmaceutical companies.

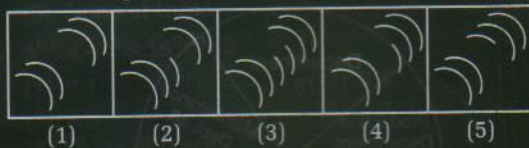
43. Pharmaceutical companies at times may incur loss after acquisition of biotech companies.
44. Safety related issues are prime concerns for the pharmaceutical companies while negotiating acquisition of biotech companies.
45. Stiff competitions among the prospective buyers have resulted into erosion of value of the biotech companies.

Directions (Q.46-50) 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?

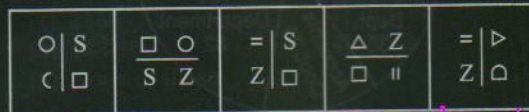
46. Problem Figures



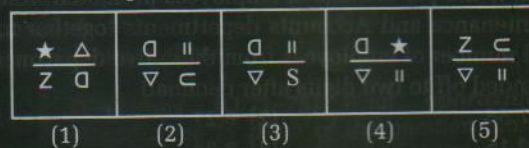
Answer Figures



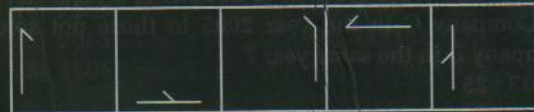
47. Problem Figures



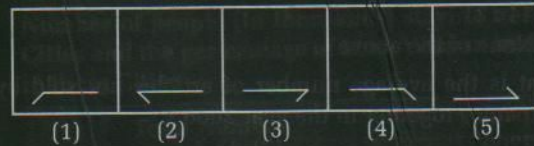
Answer Figures



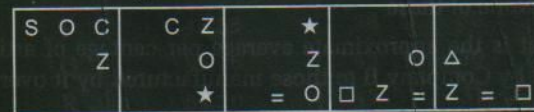
48. Problem Figures



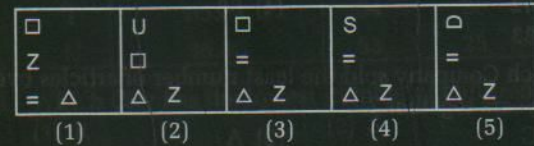
Answer Figures



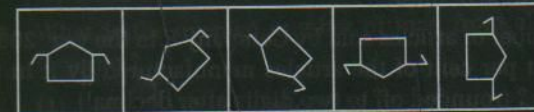
49. Problem Figures



Answer Figures



50. Problem Figures



Answer Figures

