



Assignment 3

Set 1

Five books are kept in a row, one besides the other. Among the books, one is a science fiction, one is a mystery, one is a romantic novel, one is an autobiography and one is on business management. The romantic novel is to the right of science fiction and the mystery book is to the left of the book on business management. The books on the ends are autobiography and the book on business management. The science fiction has the autobiography and the mystery novel as its neighbour.

1. Counting from the left-end of the row, the romantic novel is at which place?

- (1) Second
- (2) Third
- (3) Fourth
- (4) Data Insufficient

2. Which book is in the middle of the arrangement?

- (1) Mystery novel
- (2) Science fiction
- (3) Romantic novel
- (4) Data Insufficient



3. If the position of the mystery novel and the book on business management are switched, also the position of romantic novel and the science fiction is switched, then which book will be to the left of science fiction?

- (1) Romantic novel
- (2) Business Management
- (3) Mystery novel
- (4) Data Insufficient

4. Of the clues given below, which of them is/are redundant i.e. one can arrive at a unique arrangement even if the clue was not given?

I. The mystery book is to the left of the book on business management

II. The romantic novel is to the right of science fiction

(1) I

(2) II

(3) I or II

(4) I and II

**Set 2:**

Rohit is preparing for CAT and decides to study 5 topics, viz. Percentages, Ratios, Data Interpretation, Deductive Logic and Critical Reasoning, this week i.e. Mon to Fri. Each topic will take exactly one day to study and Rohit decides to study only one topic a day.

Further his classes have instructed him to study Data interpretation only after he has studied Percentages and Ratios. Also to study Critical Reasoning it is necessary to have studied Deductive Logic first. Further he does not want to study Ratios on Monday or Tuesday as he is scared of the topic and hence decides to study it post Tuesday only.

5. In case Data Interpretation is studied on Thursday, which among the following alternatives is possible?

- (1) Critical Reasoning is studied on Tuesday.
- (2) Critical Reasoning is studied on Friday.
- (3) Deductive Logic is studied after Data Interpretation.
- (4) Percentages and Data Interpretation are studied on consecutive days.

6. In case Data Interpretation is studied on Friday, which among the following statements must be false?

- (1) Ratios, may be studied on -Wednesday.
- (2) Ratios and Critical Reasoning may be studied on consecutive days.
- (3) If Ratios is studied on Thursday, then Critical Reasoning has to be studied on the previous day i.e. Wednesday.
- (4) Percentages may be studied before Critical Reasoning.



7. Which arrangement among the following is possible?

- (1) Study Critical Reasoning on Tuesday and Deductive Logic on Friday.
- (2) Study Data Interpretation on Wednesday and Percentages on Thursday.
- (3) Study Ratios on Tuesday and Data Interpretation on Friday.
- (4) Study Ratios on Wednesday and Percentages on Thursday.

Set 3:

6 professors *A, B, C, D, E* and *F* teach at exactly one of 6 different institutes - XLRI, MDI, IIM A, FMS, IIM B, and IIM L, not necessarily in the same order. They teach exactly one of 6 different subjects — HRM, Business Strategy, Accounts, Financial management, Marketing and Taxation. They have graduated from one of the 6 B-schools - Wharton, Harvard, Stanford, Sloan, Kellogg, AIM. Following information is given:

- i) None of the IIM professors are from Sloan.
- ii) One, who teaches Accounts graduated from Wharton & he is not *A*
- iii) *B* and *C* teach Business Strategy and HRM respectively.
- iv) *D* and *E* teach at XLRI and FMS respectively, but do not teach Accounts.
- v) The graduates from Kellogg and Stanford teach Marketing and Financial Management respectively.
- vi) Marketing is taught by *D*.
- vii) Taxation is taught at MDI and Accounts at IIMA

8. The professor teaching at IIMA is

- (1) *B*
- (2) *C*
- (3) *F*
- (4) Cannot be determined



9. Financial management is taught at

- (1) XLRI
- (2) FMS
- (3) MDI
- (4) IIM A

10. *B* can teach at which of the following institutions

- (1) IIM B
- (2) IIM L
- (3) IIM A
- (4) (1) or (2)



11. *E* has graduated from

- (1) Stanford
- (2) Harvard
- (3) Wharton
- (4) AIM

12. Taxation faculty has graduated from

- (1) Wharton
- (2) Harvard
- (3) Sloan
- (4) AIM

**Set 4**

At the super market, there were five customers in the line-up. Each of the customers bought only one article and no two customer bought the same article.

The first names of the customers were: Anjana, Ashima, Anjali, Anamika, Ambika.

The last names of the customers were: Mrs. Sharma, Mrs. Verma, Mrs. Joshi, Mrs. Gupta, Mrs. Mehta

The products bought were: Tide, Surf, Ariel, Vanish, Nirma

Further the following information is also available:

- i. Mrs. Anjali Joshi was served later than the customer who purchased Nirma, but before Mrs. Gupta
- ii. The second customer is Anamika
- iii. Ariel was purchased by the customer immediately after Ashima
- iv. Ambika was the woman who bought Vanish; She was in the line-up later than Anjana
- v. Tide was purchased by Mrs. Mehta
- vi. Mrs. Verma was third in the line-up
- vii. The fourth customer in the line-up bought Surf

13. The last name of Anamika is:

- (1) Mrs. Sharma
- (2) Mrs. Verma
- (3) Mrs. Gupta
- (4) Mrs. Mehta

14. Anjana purchased which brand?

- (1) Tide
- (2) Surf
- (3) Ariel
- (4) Nirma



15. The fourth person in the line-up was

- (1) Anjana
- (2) Mrs. Mehta
- (3) Mrs. Joshi
- (4) Anamika

16. The first person bought which brand?

- (1) Tide
- (2) Surf
- (3) Ariel
- (4) Nirma

**Set 5**

A family consists of 5 members P, Q, R, S and T. T has two sons, an unmarried daughter and a daughter-in-law. P is the brother-in-law of the above mentioned daughter-in-law. Q's sister is not happy with Q's wife. But P and his father support Q's wife, S.

17. Who is the daughter of T?

- (1) P
- (2) Q
- (3) R
- (4) S

18. What is the relation of P with S?

- (1) Brother
- (2) Brother-in-law
- (3) Sister-in-law
- (4) Sister



19. How is T related to Q?

- (1) Father
- (2) Mother
- (3) Father-in-law
- (4) Cannot be determined

20. Who is the wife of Q?

- (1) P
- (2) R
- (3) S
- (4) Cannot be determined



21. How is P related to T?

- (1) Father
- (2) Brother
- (3) Sister
- (4) None of these