

**Part I**

*Test of Quantitative Ability*

1. Three numbers are in the ratio of 4 : p : 7. The third number is greater than the first one by 27. Find the value of p, if the sum of the numbers is 135.  
(A) 3                      (B) 4                      (C) 5                      (D) 6
2. If  $-7 \leq x \leq 7$  and  $0 \leq y \leq 12$ , what is the greatest possible value of  $y-x$ ?  
(A) -17                      (B) 19                      (C) -19                      (D) 17
3. In a room there are some peacocks and some cats. If the total number of eyes in the room is 1046 and total number of legs is 1500, what is the number of cats in the room?  
(A) 80                      (B) 296                      (C) 67                      (D) 227
4. Anshul gave 20% of his baseball cards to Suhash and 15% to Pamy. If he still had 520 cards, how many did he have originally?  
(A) 670                      (B) 710                      (C) 800                      (D) 910
5. A square and an equilateral triangle each have sides of length 5. What is the ratio of the area of the square to the area of the triangle?  
(A)  $4/3$                       (B)  $16/9$                       (C)  $\sqrt{3}/4$                       (D)  $4\sqrt{3}/3$

6. From 1994 to 1995 the sales of a book decreased by 80%. If the sales in 1996 were the same as in 1994, by what percent did they increase from 1995 to 1996?
- (A) 100%      (B) 200%      (C) 120%      (D) 400%
7. The total investment of three persons Arun, Barun, and Vijay is Rs. 51,000. At the end of one year, Barun and Vijay got individual shares of profit of Rs. 6,000 and Rs. 8,000, out of the total profit of Rs. 15,000. Find the investment of Arun.
- (A) Rs. 3,000      (B) Rs. 5,600      (C) Rs. 3,400      (D) Rs. 4,250
8. A sum of Rs. 44,000 is divided into three parts such that the corresponding interest earned after 2 years, 3 years, and 6 years may be equal. If the rates of simple interest are 6% p.a., 8% p.a. and 6% p.a. respectively, what is the smallest part of the sum that was lent?
- (A) Rs. 8,000      (B) Rs. 9,500      (C) Rs. 6,000      (D) Rs. 7,500
9. A solution of 66 litres contains milk and water in the ratio of 7 : x. If four litres of water is added to the solution, the ratio becomes 3 : 2, find the value of x.
- (A) 6      (B) 4      (C) 3      (D) 2
10. A and B take a work on contract for Rs. 3,000. A alone can do it in 12 days, whereas B alone can do it in 24 days. With the help of C they finish out in 4 days. Find the wage of C.
- (A) Rs. 1,000      (B) Rs. 1,200      (C) Rs. 1,500      (D) Rs. 1850



## Part II

### *Test of Reasoning Ability*

**Questions 16 – 17:** In each question below, is given a statement followed by three assumptions numbered I, II and III. An assumption is something supposed or taken for granted. You have to consider the statement along with the assumptions and decide which of the assumptions is implicit in the statement. Then decide which of the alternatives is the correct answer.

16. *Statement:*

During pre-harvest kharif season, the government has decided to release vast quantity of food grains from FCI.

*Assumptions:*

- I. There may be a shortage of food grains in the market during this season.
- II. The kharif crop may be able to replenish the stock of FCI.
- III. There may be a demand from the farmers to produce kharif crop immediately after harvest.

- (A) None is implicit.                      (B) Only I and II are implicit.  
(C) Only II and III are implicit.      (D) All are implicit.

17. *Statement:*

To increase profit, the oil exporting countries decided to reduce the production of crude by 5 million barrels per day.

*Assumptions:*

- I. The price of crude may increase due to less production.
- II. The demand of crude may remain same in future.
- III. Other countries may continue buying crude from these countries.

- (A) All are implicit.                      (B) Only II and III are implicit.  
(C) Only I and II are implicit.      (D) None is implicit.

**Questions 18 – 19:** Each question below, is followed by two arguments numbered I and II. You have to decide which of the given arguments is a 'strong' argument and which is a 'weak' argument. Give answer

- (A) If only argument I is strong.
- (B) If only argument II is strong.
- (C) If either I or II is strong.
- (D) If neither I nor II is strong.

18. Should educated people work in villages?

*Arguments:*

- I. Yes, because they can revolutionize agriculture and revamp atmosphere.
- II. No, the educated should be employed in cities.

19. Should number of public holidays be reduced?

*Arguments:*

- I. No, there is going to be hue and cry.
- II. Yes, it must be done as early as possible.

**Questions 20 – 21:** 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 problems, 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 given suggested courses of action logically follows for pursuing. Give answer:

- (A) If only I and II follows.
- (B) If only II and III follows.
- (C) If either I or III follows.
- (D) None of these.

20. A large number of tribal inhabitants are found to have been suffering from various diseases due to exposure to radioactive waste near the Uranium mine.

*Courses of action:*

- I. The government should immediately close down the mine.
- II. The government should immediately take steps to save local people from exposure to radioactive waste.
- III. The tribals should be rehabilitated at a safer place.

21. The world will have to feed more than 10 billion people by 2050 of whom half will be in Asia and will eat rice as their staple.

*Courses of action:*

- I. More funds should immediately be allocated for rice research to help ensure adequate supplies.
- II. The people in Asia should be encouraged to change their food habit.
- III. The rice should be grown in countries outside Asia to meet the demand.

*In question 22, a statement is given followed by four inferential conclusions. Identify the inferential conclusion which can be drawn, without assuming anything in addition to the information given.*

22. *Statement:*

High rate of population growth is linked closely with the fact of dwindling area under forest cover.

*Conclusion:*

- (A) Forests are inimical to human growth.
- (B) Population growth leads to demand for more land.
- (C) There is less danger to human population from wild animals.
- (D) Decreasing space of forest cover acts as incentive for humans to reproduce at a faster rate.

23. Child : Family :: \_\_\_\_\_ : \_\_\_\_\_

- (A) Mother : Baby
- (B) Bird : Nest
- (C) Pond : Fish
- (D) Tentacle : Octopus

24. *In the following series, find the number which is wrong.*

215, 28, 63, 126, 7, 343

- (A) 343
- (B) 215
- (C) 126
- (D) 7

25. If 'light' is called 'morning', 'morning' is called 'dark', 'dark' is called 'night', 'night' is called 'sunshine' and 'sunshine' is called 'dusk', when do we sleep?

- (A) morning
- (B) sunshine
- (C) night
- (D) None of these

26. A and B start together from one point. They walk 10 km towards North. A turns left and covers 5 km whereas B turns right and covers 3 km. A turns left again and covers 15 km whereas B turns right and covers his 15 km. How far is A from B?

- (A) 48
- (B) 15
- (C) 10
- (D) None of these

27. Which one would be a meaningful order of the following?

- |           |           |
|-----------|-----------|
| I. Mother | II. Child |
| III. Milk | IV. Cry   |
| V. Smile  |           |

- |                   |                   |
|-------------------|-------------------|
| (A) I II III IV V | (B) II IV I III V |
| (C) II IV III I V | (D) I V II IV III |

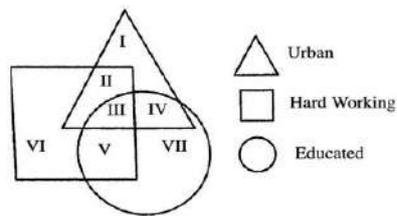
28. Pointing to Mary, Bob said, "Her mother's only daughter is my daughter." How is Bob related to John?

- |             |                   |
|-------------|-------------------|
| (A) Brother | (B) Uncle         |
| (C) Father  | (D) None of these |

29. Starting from the fifth letter from the left, if twelve letters are written in reverse order, then which letter will be the seventh to the left of the fourteenth letter from the right?

- |       |       |       |                   |
|-------|-------|-------|-------------------|
| (A) N | (B) H | (C) O | (D) None of these |
|-------|-------|-------|-------------------|

30. Which one of the areas marked I-VII represents the urban hard working who are not educated?



- |        |         |        |                   |
|--------|---------|--------|-------------------|
| (A) IV | (B) III | (C) II | (D) None of these |
|--------|---------|--------|-------------------|