# ASSESSMENT TEST

**These questions are based on the following information.**
Among the 350 students in a school who were asked to chose their favorite streams of subject out of maths, biology and commerce, 230 students chose maths and 180 chose commerce.

1. If 120 students chose biology as their favorite stream, what is the maximum possible number of students who chose only maths as their favorite?
   (A) 230   (B) 190   (C) 170   (D) 150

2. If the number of students who chose exactly two streams as their favorite is 100, what is the maximum possible number of students who chose only maths as their favorite stream?
   (A) 150   (B) 210   (C) 230   (D) 170

3. If 250 students chose either commerce or biology as their favorite stream, then what is the maximum possible number of students who chose maths and commerce only?
   (A) 180   (B) 130   (C) 150   (D) 200

4. If the number of students who chose exactly two streams as their favorite is 100, what is the maximum possible number of students who did not choose any of the three streams as their favorite?
   (A) 20   (B) 80   (C) 120   (D) 150

**These questions are based on the following data.**
Among five friends A, B, C, D and E everyone receives an equal amount every month as pocket money and everyone spends an equal amount every month. But this month their receipts and expenditures varied from their normal receipts and expenditures. A received ₹10 more than the normal monthly pocket money and spent ₹5 more than the normal monthly expenditure. B received ₹5 less than the normal monthly pocket money and spent ₹5 less than the normal monthly expenditure. This month C received ₹15 more than A but saved ₹15 less than A. D received ₹10 more than B and saved the same amount as A. E received ₹45 less than what C received this month and could not save any money, since he had to spend the same amount of money he had spent in the previous months.

5. Who spent the maximum amount of money this month?
   (A) A   (B) B
   (C) C   (D) Cannot be determined

6. How much money did each of the boys save in the last month?
   (A) ₹30   (B) ₹50
   (C) ₹20   (D) Cannot be determined

7. Who received the maximum amount of money in this month?
   (A) A   (B) B   (C) C   (D) D

**These questions are based on the following information.**
Each of the seven persons P, Q, R, S, T, U and V – live in a different floor of a seven storeyed building. The ground floor is called 1st floor, the floor just above the ground floor is called second floor and so on. Each of them is of a different age among – 79, 73, 67, 64, 60, 55 and 53 not necessarily in that order. The following information is known about them.
(i) P is the third youngest and lives on an even numbered floor. U is 14 years younger than V and only three persons live between U and V.
(ii) No person who is younger than P, lives above P. only one person is living between P and V.
(iii) T is living in a floor which is adjacent to the youngest person's floor, but T is neither the second youngest person nor living in the bottom most floor
(iv) Q's floor is above R's floor which is above the oldest person's floor. R is not younger than V

8. Who is the youngest person?
   (A) Q   (B) R   (C) S   (D) U

9. How many floors are there between the youngest and the oldest person?
   (A) one   (B) none   (C) two   (D) three

10. Who lives just above the oldest person?
    (A) R   (B) V
    (C) The second youngest person
    (D) The person who is 60 years old

(A) ₹50 crores    (B) ₹60 crores
(C) ₹78 crores    (D) None of these

15. The total sales revenue is ₹100 crores and revenue from sale of tool F is ₹10 cr. If there is no loss or profit from the sales of tool F, then what is the overall profit percentage of ABC tool limited?
(A) 50% percentage    (B) 80% percentage
(C) 100% percentage    (D) 120% percentage

*Directions for questions 16 to 20:*
**These questions are based on the following information.**
Two professional chess players A and B participated in different annual tournaments held in different countries in the years 2005, 2006, 2007 and 2008. In any tournament the winner is awarded 4 points and the runner is awarded 2 points. The following table gives the total number of points awarded to players A and B every year from 2005 to 2008.

|   | 2005 | 2006 | 2007 | 2008 |
|---|------|------|------|------|
| A | 208  | 240  | 320  | 360  |
| B | 252  | 312  | 376  | 524  |

Further it is known that the number of finals reached by 'A' in 2006 is '80'. Also, the number of times 'A' stood as the runner in a given year is equal to the number of times he stood as the winner in the previous year. In any given year the number of times 'A' reached finals is twice that of the number of times 'B' stood as the runner in the same year. Answer the following questions based on the information given above.

16. How many times did A reach finals in the years 2005 and 2006 together?
(A) 120    (B) 132    (C) 156    (D) 144

17. How many times did 'B' did stand as the runner in 2007 and 2008 together?
(A) 105    (B) 110    (C) 120    (D) 132

18. What was the total number of finals reached by 'A' in 2007 and B in 2006?
(A) 216    (B) 146    (C) 198    (D) 143

19. How many times had 'A' emerged as the winner throughout the given period?
(A) 196    (B) 199    (C) 198    (D) 200

20. What was the difference between the number of finals reached by A and B in the given period?
(A) 93    (B) 94    (C) 95    (D) 96

*Directions for questions 11 to 15:*
**These questions are based on the following information.**
ABC Tools Limited manufactures and sells six different kinds of tools – A, B, C, D, E and F. The manufacture of each tool involves only two costs – raw material and labour.

*Distribution of raw material cost on different tools as a percentage of the total raw material cost*
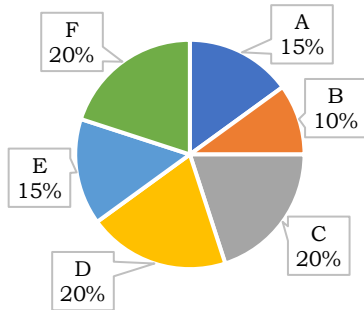


*Distribution of labour cost on different tools as a percentage of the total labour cost*
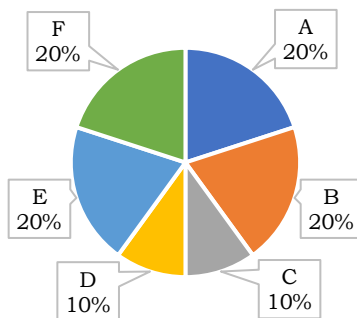


Profit percentage = $\left(\frac{\text{Profit}}{\text{Total Cost}}\right) \times 100$

11. If the total manufacturing cost of A and D are the same, then what is the ratio of the manufacturing cost of B to that of C?
(A) 1 : 1    (B) 1 : 2    (C) 4 : 5    (D) 5 : 4

12. If the ratio of total raw material cost to total labour cost is 2 : 1, then the total cost for which tool in the highest?
(A) F    (B) E    (C) D    (D) A

13. The ratio of the selling prices of the tools A, E and F is 1 : 2 : 1. If the profit on A, E and F are denoted by a, e and f respectively, then what can be said about a, e, f?
(A) f > e > a    (B) a > e > f
(C) e > f > a    (D) e > a > f

14. If the labour cost on E is half of its raw material cost and ABC tools limited has a total revenue of ₹528 crores and a total profit of 20%, then what is the manufacturing cost of D?