Percentage

Part-5

1. **In an examination 80% of the boys passed in Economics and 85% passed in Hindi, while 75%passed in both. If 270 boys failed in both, the number of boys who appeared for the examination was?**

(1) 2650

(2) 2700

(3) 2150

(4) 2500

(5) None of these

2. **72% of the population of a city read Hindi newspaper. 54% of the population of the same city read English newspapers. 8% of the population of city read neither Hindi nor English newspapers. If 19380 people read both English and Hindi newspapers, then find the total population of the city?**

(1) 57500

(2) 57000

(3) 52200

(4) 55500

(5) 51200

3. **In a test for an executive post in a company, 67% of the candidates passed in the written exam, 53% of the candidates passed in Interview, and 25% of the candidates passed in both. If 800 students failed in both subjects, then how many candidates passed in only the written exam?**

(1) 5760

(2) 6720

(3) 7620

(4) 6210

(5) None of these

4. **In an examination 1800 students appeared. 35% of the students failed in Psychology, 45% of the students failed in Sociology, 20% of the students failed in both subjects. How many students pass in both subjects?**

(1) 560

(2) 820

(3) 620

(4) 720

(5) None of these

5. **In an examination, 38% of the students failed in Hindi and 32% in English. If 24% of the students failed in both these subjects, then what percentage of students passed in both the subjects?**

(1) 51%

(2) 52%

(3) 53%

 (4) 54%

(5) 55%

6. **In an examination 52% of the students failed in Hindi, 28% of the students failed in History, 10% of the students failed in both subjects. If the number of students who passed the examination is 1770 in either of the subjects, find the total students.**

(1) 5500

 (2) 5700

(3) 5900

(4) 6100

(5) None of these

7. **In a group of 1440 people who like at least one of the two types of players i.e. X and Y, 25% people like only X players, 40% like only Y players. Find the number of people who like Y players?**

(1) 1080

(2) 1040

(3) 980

(4) 880

(5) 820

8. Certain number of bags contain a certain number of ₹10 notes, ₹20 notes and ₹50 notes.

Number of bags with ₹10 notes only is 6 more than that with ₹20 notes only and also 1 more than that with both ₹10 notes and ₹20 notes but not ₹50 notes. Number of bags with all the three denomination notes is 8, which is 2 less than that with ₹10 notes only. Number of bags with both ₹20 notes and ₹50 notes but not ₹10 notes is equal to that with ₹20 notes only and also 33⅓% of that with ₹50 notes only. Ratio of the number of bags with both ₹10 notes and ₹50 notes but not ₹20 notes to those with ₹50 notes only is 1: 4. Find the total number of bags with at-least two denomination notes?

(1) 20

 (2) 24

(3) 18

(4) 22

(5) 16

9. Three movies A, B and C were played in a society. 20 people watched all the 3 movies and 10% persons of the society watched both movies A and C but not B. 15% persons watched both movies B and C but not A, which is 45. Number of persons who watched both movies A and B but not C is 5 less than those who watched both movies A and C but not B. If ratio between the number of persons who watched only movie A to those who watched only movie B and to those who watched movie C is 4: 3: 2 respectively, then what percent of total number of persons in the society watched movie B?

(1) 50%

(2) 62.5%

(3) 40%

(4) 75%

(5) 66.67%

10. **In a company, the number of employees who like only tea is 24, which is 4 times of those who like only coffee and also 6 times of those who like only cold drinks. Number of employees who like all three items is equal to those who like only cold drinks. Total number of employees who like cold drinks is 24 and the number of employees who like both tea and cold drinks but not coffee is equal to those who like both coffee and cold drinks but not tea. Total number of employees who like coffee is 30.Find that the number of employees who like only coffee is what percent of the total number of employees who like tea?**

(1) 10%

(2) 12.5%

(3) 20%

(4) 15%

(5) 16.67%

11. **In a College election 35% voted for Abhi whereas 42% voted for Ravi. The remaining people did not vote for any person. If the difference between those who vote for Ravi in the election and those who are uncertain was 1140 ,So,how many people participated in college election voting ?**

(A) 6000

(B) 3000

(C) 4000

(D) 2000

(E) 5000

12. **Directions: Study the following data carefully and answer the questions accordingly.**

In a maths test, Aniket got 414 marks which was 47 less than Baman's marks. The marks of Chand were 48% of the sum of Aniket and Baman's marks together or 52.5% of the total marks. If the marks of Dipen was 32 more than that of Chand's marks. Find how much percent

did Dipen get in that examination?

(A) 48.5%

(B) 55.5%

(C) 51.5%

(D) 56.5%

(E) None of these

13. In a Town, consisting of three areas 1, 2 and 3, the male population of the three areas are in the ratio of 2 : 3 : 4 respectively. In area 1, 55% of the male are working, in area 2, 25% of the male are working and in area 3, 50% of the male are working. Find the percentage(approx.) of non –working male in the Town.

(A) 32%

(B) 57%

(C) 46%

 (D) 56%

(E) 50%

14. In an election only Modi & Gandhi contested, 30% of the voters did not vote and 3200 votes were declared as invalid. The winner, Modi got 9600 votes more than his opponent , thus he secured 51% votes of the total voters on the voter list. Percentage votes of the loser candidate, Gandhi out of the total voters on the voter list is:

(A) 9%

(B) 6%

(C) 12%

(D) 3%

(E) None of these

15. In an exam. 50% of the students passed in English, and 75% passed in Hindi, While 20% students failed in both the subjects. If 540 students passed in both the subjects, find the total number of students who appeared in the exam?

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(A) 1200

 (B) 1400

(C) 1600

(D) 1800

(E) None of these

16. **A company manufactures 5000 bottles every month. Due to some external factors, 20% of them are found to be defective and sent back to the factory for correction every month. The rest of the bottles are brought to the market for selling. On average the percentage of male buyers of the bottle every month is 30%. Find the number of female buyers of the bottles every month.**

(A) 2400

(B) 2800

(C) 3000

(D) 3600

(E) 3800

17. **25% of the voters did not cast their vote in an election of mazdoor union in Tata company between two candidates. 25% of the votes polled were found invalid. The winning candidate got 54% of the valid votes and won by a majority of 5240 votes. The number of voters enrolled voters' list was**

(A) 2,17,444

(B) 1,26,445

(C) 1,16,444

(D) 1,56,445

(E) None of these

18. **Two candidate X and Y contested in an election. 20% of the total votes are declared invalid. Ratio of valid votes got by X and Y is 3:1.Difference between the total votes and valid votes got by X is 400. Find the total number of invalid votes.**

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(A) 900

(B) 200

(C) 300

(D) 600

(E) 700

19. **The total sales done by a salesman is Rs.32000 and the total commission made by him is Rs.3600. If rate of commission up to Rs.20000 is 12% and after Rs,20000 the rate of commission can either increase or decrease, then find the rate of commission on the sales done over Rs.20000.**

(A) 15%

(B) 20%

(C) 10%

 (D) 12%

(E) None of these

20. **630 students of a school took an exam. The ratio of boys to girls who took the exam is 3:4. The ratio of number of students passed the exam to those who failed the exam is in the ratio 11:3. Among the girls, the ratio of number of students who passed to those who failed the exam is in the ratio is 11:4. Find the ratio of number of boys to the number of girls who failed?**

(A) 32:15

(B) 16:35

(C) 19:33

 (D) 22:39

(E) None of these

Answer key

1.**(2)**

2.**(2)**

3.**(2)**

4.**(4)**

5.**(4)**

6.**(3)**

7.**(1)**

8.**(2)**

9.**(1)**

10.**(2)**

11. **(A)**

12. **(B)**

13. **(A)**

14. **(C)**

15. **(C)**

16. **(D)**

17. **(A)**

18. **(A)**

19.**(C)**

20. **(C)**