1. In an examination, 49% students failed in English, 36% students failed in Hindi, while 15% failed in both. If total number of passed students is 450, then how many students did appear in the examination?

(a) 1800

(b) 2000

(c) 1100

(d) 1500

(e) None of these

2. Fresh grapes contain 80% water, while dry grapes contain 10% water. If the weight of dry grapes is 500 kg, then what is its total weight when it is fresh?

(a) 2350 kg

(b) 2085 kg

(c) 2255 kg

(d) 2250 kg

(e) None of the above

3. Due to a 25% increase in the price of rice per kilogram, a person is able to purchase 20 kg less for Rs. 400. What is the increased price of rice per kilogram?

(a) Rs. 5

(b) Rs.6

(c) Rs.10

(d) Rs.4

(e) None of the above

4. The price of rice decreases by 6.25% and because of this reduction, Vandana is able to buy 1 kg more for Rs. 120. Find the reduced rate of rice.

(a) Rs.7.50 per kg

(b) Rs.9 per kg

(c) Rs.5.50 per kg

(d) Rs.19 per kg

(e) None of the above

5. Wheat is now being sold at Rs. 27 per kg. During last month, its cost was Rs. 24 per kg. Find by how much per cent a family reduces its consumption, so as to keep the expenditure fixed.

(a) 10.2%

(b) 12.1%

(c) 12.3%

(d) 11.11%

(e) None of the above

6. In a class of 40 students and 5 teachers, each student got sweets that are 15% of the total number of students and each teacher got sweets that are 20% of the total number of students. How many sweets were there?

(a) 280

(b) 240

(c) 320

(d) 360

(e) None of the above

7. The price of ghee is increased by 32%. Therefore, a family reduces its consumption, so that the increment in price of ghee is only 10%. If consumption of ghee is 10 kg before the increment, then what is the consumption now?

(a) 8(1/3) kg

(b) 8(1/8) kg

(c) 8(1/8) kg

(d) 9(1/7) kg

(e) None of the above

8. The expenses on wheat, meat and vegetables of a family are in the ratio 12 : 17 : 3. The prices of these articles are increased by 20%, 30% and 50%, respectively. The total expenses of the family on these articles are increased by

(a) 23(1/3)%

(b) 28(1/8)%

(c) 27(1/8)%

(d) 25(1/7)%

(e) None of the above

9. In an examination out of 480 students, 85% of the girls and 70% of the boys passed. How many boys appeared in the examination, if total pass percentage was 75%?

(a) 370

(b) 340

(c) 320

(d) 360

(e) None of these

10. In a class-X of 30 students, 24 passed in first class; in another class Y of 35 students, 28 passed in first class. In which class was the percentage of students first class more?

(a) Class X has more percentage of students getting first class.

(b) Class Y has more percentage of students getting first class.

(c) Both classes have equal percentage of students getting first class

(d) both 1 and 2

(e) None of the above

11.    Two numbers are less than third number by 30% and 37% respectively. How much percent is the second number less than by the first

(1) 20%                 (2) 30 %

(3) 10%                 (4) 40%

12.    In an examination, 34% of the students failed in mathematics and 42% failed in English. If 20% of the students failed in both the subjects, then find the percentage of students who passed in both the subjects.

(1) 40%                 (2) 41%

(3) 43%                 (4) 44%

13.    In the new budget , the price of kerosene oil rose by 25%. By how much percent must a person reduce his consumption so that his expenditure on it does not increase ?

(1) 20%                 (2) 30%

(3) 22%                 (4) 24%

14.    The value of a machine depreciates at the rate of 10% per annum. If its present is Rs.1,62,000.? What was the value of the machine 2 years ago ?

(1) 200000             (2) 20000

(3) 2000                 (4) None of these

15.    A student multiplied a number by 3/5 instead of 5/3. What is the percentage error in the calculation?

(1) 60%                 (2) 62%

(3) 64%                 (4) 65%

16.    A number increased by 20% and then decreased by 20%. Finally the number is:

(a) Decreased by 4%              (b) increased by 4%

(c) Does not change                (d) decreased by 0.4%

17.    Two numbers are less than third number by 30% and 37% respectively. How much percent is the second number less than by the first

(a) 20%                                    (b) 30 %

(c) 10%                                    (d) 40%

18.    In an examination, 34% of the students failed in mathematics and 42% failed in English. If 20% of the students failed in both the subjects, then find the percentage of students who passed in both the subjects.

(a) 40%                                     (b) 41%

(c) 43%                                     (d) 44%

19.    In the new budget, the price of kerosene oil rose by 25%. By how much percent must a person reduce his consumption so that his expenditure on it does not increase?

(a) 20%                                   (b) 30%

(c) 22%                                   (d) 24%

20.    The value of a machine depreciates at the rate of 10% per annum. If its present is Rs.1, 62,000. What was the value of the machine 2 years ago?

(a) 200000                               (b) 20000

(c) 2000                                    (d) None of these

21.    A student multiplied a number by 3/5 instead of 5/3. What is the percentage error in the calculation?

(a) 60%                                     (b) 62%

(c) 64%                                     (d) 65%

22.    Two number x and y are respectively 20% and 50% more than a third number x is how month percent of y?

(a) 30 %                                    (b) 45%

(c) 60 %                                   (d) 80%

23.    13% of a number exceeds 5% of the same by 16. The number is :

(a) 500                                      (b) 450

(c) 300                                      (d) 200

24.    If A exceeds B by 60% and B is less than C by 20%, then A:C is

(a) 32:25                                  (b) 25:32

(c) 8:5                                       (c) 4:5

25.  In an examination, a student had to obtain 33% of the maximum marks to pass. He got 125 marks and failed by 40 marks .the maximum marks were :

(a) 500                                    (b) 600

(c) 800                                     (d) 1000

26. At an election where there are two candidates only, the candidate who gets 62 per cent of the votes is elected by a majority of 144 votes. Find the total no. of votes recorded.

(a) 1200

(b) 1800

(c) 700

(d) 600

27. At an election where there are two candidates only, the candidate who gets 43 per cent of the votes is rejected by a majority of 420 votes. Find the total no. of votes recorded.

(a) 3000

(b) 600

(c) 1200

(d) 2400

28. Ram and Mohan appeared in an examination. If the difference of their marks is 60 and percentage difference of their marks is given as 30. Find the full marks for which examination has been held.

(a) 220

(b) 200

(c) 300

(d) 400

29. A and B appeared in an examination. If the difference of their marks is 25 and percentage difference of their marks is given as 20%. Find the full marks for which examination has been held.

(a) 125

(b) 100

(c) 80

(d) 120

30. One type of liquid contains 25% of milk, the other contains 30% of milk. A can filled with 6 parts of the first liquid and 4 parts of the second liquid. Find the percentage of milk in the new mixture.

(a) 27%

(b) 25%

(c) 24%

(d) 23%

**Answer Key:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Question** | **Answer** | **Question** | **Answer** |
| 1 | D | 16 | A |
| 2 | D | 17 | C |
| 3 | A | 18 | D |
| 4 | A | 19 | A |
| 5 | D | 20 | A |
| 6 | A | 21 | C |
| 7 | A | 22 | D |
| 8 | B | 23 | D |
| 9 | C | 24 | A |
| 10 | C | 25 | A |
| 11 | C | 26 | D |
| 12 | D | 27 | A |
| 13 | A | 28 | B |
| 14 | A | 29 | A |
| 15 | C | 30 | A |