**NAME:**

**ROLL NO.: BRANCH:**

**INSTRUCTIONS:**

1. **Each question carries equal marks.**
2. **There will be a negative marking of 0.5 marks on each wrong answer.**

**1.**Two numbers are such that if the first is subtracted from six times the second, their difference becomes 71, and if the second be added to 7 times the first , their sum becomes 62. The two numbers are  
**(a)19, 7   (b)13, 7(c)7, 13   (d)17, 3**

**2.**A lent Rs 5000 to B for 2 years and Rs 3000 to C for 4 years on simple interest at the same rate of interest and received Rs 2200 in all from both of them as interest. The rate of interest is  
**(a)5%     (b)7% (c)8%    (d)None of these**

**3.**In how many different ways can the letters of word ‘PREVIOUS’ be arranged in such a way that the vowels always come together?  
**(a)50400     (b)4840 (c)3260    (d)2880**  
**4.**On selling an item for Rs 20 a man gains 25%. In order to gain 40% what will be the increase in it’s selling price.  
**(a) Rs 3.40  (b) Rs 3   (c) Rs 2.62  (d) Rs 2.40**   
  
**5.**The sum of money that will give Rs 2 as simple interest per day at the rate of 8% per annum is  
**(a)Rs 9125  (b)Rs 7236  (c)Rs 6382  (d)Rs 9262**

**6.**In an exam, 60% of the total student passed. If the number of failed students is 320 then the total number of students is  
**(a)600    (b)700   (c)800  (d)900**

**7.**A card is drawn from a pack of playing cards, what is the probability of getting either a red or a red queen?  
**(a)4/13    (b)7/13   (c)1/13   (d)1/26**

**8.**Sum of three consecutive numbers is 2475. What is 35% of the smallest number?  
**(a)251.6         (b)288.4         (c)308.4           (d)296.8**

**9.**A bag contains 13 white and 7 black balls. Two balls are drawn at random. What is the probability that they are of the same color?  
**(a)41/190        (b)21/190         (c)59/190        (d)99/190**

**10.**A vendor sells 60 percent of apples he had and throws away 15 percent of the remainder. Next day he sells 50 percent of the remainder and throws away the rest. What percent of his apples does the vendor throw?  
**(a)17 (b)23 (c)77 (d)None of these**  
  
**11.**If 100 men can do 100 jobs in 100 days, then 1 man can do 1 job in  
**(a)1 day  (b)100 days  (c)50 days (d)10 days**

**12.**A man covers half of his journey at 6 km/h and the remaining half at 3 km/h. His average speed is   
**(a)9 km/h (b)4.5 km/h (c)4 km/h (d)3 km/h**

**13.**A man buys a toy for Rs. 25 and sells it for Rs. 30. His gain percent is    
**(a)5% (b)2.5% (c)20% (d)10%**

**14.**A supply of juice lasts for 35 days. If its use is increased by 40% the number of days would the same amount of juice lasts, is   
**(a)30 days  (b)27 days  (c)25 days  (d)24 days**

**15.**The sum of three numbers is 98. If the ratio between first and second be 2: 3 and between second and third be 5: 8, then the second number is:    
**(a)30 (b)20 (c)58 (d)48**

**16.**Four dice are thrown simultaneously. Find the probability that all of them show the same face.  
**(a)1/216 (b)1/36 (c)4/216 (d)3/216**  
  
**17.**In a lottery, there are 10 prizes and 25 blanks. A lottery is drawn at random. What is the probability of getting a prize?  
**(a)2/7 (b)5/7 (c)1/5 (d)½**  
  
**18.**In how many ways can the letters of the word 'LEADER' be arranged?  
**(a)72 (b)144 (c)360 (d)720**

**19.**In how many ways can a group of 5 men and 2 women be made out of a total of 7 men and 3 women?  
**(a)63 (b)90 (c)126 (d)45**

**20.**How many 4-letter words with or without meaning, can be formed out of the letters of the word, 'LOGARITHMS', if repetition of letters is not allowed?  
**(a)40 (b)400 (c)5040 (d)2520**