## **BHARAT SCHOOL OF BANKING-PERCENTAGE**

**1.** 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%

**2.** 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%

**3.** 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%

**4.** 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%

**5.** 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

**6.** 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%

**7.** 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%

8. 13% of a number exceeds 5% of the same by 16. The number is :

(a) 500	(b) 450
(c) 300	(d) 200

**9.** If A exceeds B by 60% and B is less than C by 20%, then A:C is (a) 32:25 (b) 25:32

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

**10.** 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 (d) 1000

(c) 800 (d) 1000

#### **ANSWERS WITH EXPLANATIONS:**

#### 1. (a):

Final change =  $a^2/100 \ a$  (20\*20)/100, 4% decrease **2.** (c): Let the third number is x. then first number = (100-30)% of x = 70% of x = 7x/10 Second number is (63x/100) Difference = 7x/10 - 63x/100 = 7x/10 So required percentage is, difference is what percent of first number => (7x/100 \* 10/7x \* 100 )% = **10%** 

### 3. (d):

Failed in mathematics, n(A) = 34Failed in English, n(B) = 42 $n(AUB) = n(A) + n (B) - n (A \cap B)$ = 34 + 42 - 20 = 56Failed in either or both subjects are 56 Percentage passed = (100-56)%=**44%** 

## 4. (a):

Reduction in consumption = [((R/(100+R))\*100]% [(25/125)\*100]%=**20%**.

### 5. (a):

Value of the machine 2 years ago = Rs.[162000/(1-(10/100)<sup>2</sup>)]=Rs.[162000\*(10/9)\*(10/9)]= **Rs.200000** 

## 6. (c):

Let the number be x Then, error = (5/3)x - (3/5)x = (16/15)xError% = [(16x/15) / (5x/3)] \* 100% = 64%7. (d): Let the third number is 100 ...The number x = 120 and the number y = 150

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: x is how much percent of  $y = x^*100/y = 120^*100/150 = 80\%$ 8. (d): Let the number is X :13% of the x-5% of x = 16 :13\*x/100 - 5\*x/100 = 16 àX = 200 9. (a): Let the C = 100 then the B = 80 And A = 80\*160/100 = 128 : A : C 128:100 = 32:25 10. (a): Let the maximum marks were x ::x\*33/100 = 125+40 = 165 ::x = 165\*100/33 = 500