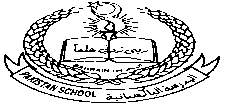
**PAKISTAN SCHOOL, ISA TOWN BAHRAIN**

**PRE BOARD EXAMINATION 2021**

**Class: 11th Marks: 40**

**Paper: Business Mathematics Time: 2:15hrs**

**Section B**

**Q: 2 Attempt any eight parts. All parts carry equal marks. (8x3=24)**

1. The length of a Pakistani flag is 1.6 meters. The ratio between green and white parts is 3:1. Find the length of green part.
2. A car runs 150 km in 10 liters of petrol. How much petrol would be used to travel 280km,
3. A shopkeeper bought a bag of rice for Rs. 400 and sold it for Rs. 480. Find the profit percent.
4. A commission agent sold goods for Rs. 60,000. Find out his commission if he received 5% commission
5. What principal amount is needed that the simple interest will be Rs. 48 if it is invested at 3% per annum for 5 years
6. How much interest will be charged by the bank for a loan of Rs. 7,50,000 for 3 months if the rate is 4 per year.
7. In what time will Rs. 3000 amount to Rs. 3646.50 at 5% compounded annually.
8. Solve
9. Solve the simultaneous equations
10. If then find
11. If the matrix is singular then find value of

**Section C**

**Note: Attempt any two questions from Section C. (8x2=16)**

1. a) Rs. 8000 is enough for 4 persons for 40 days. For how many days Rs. 15000 will be enough for 5 persons

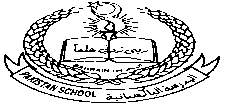
b) For how many years Mr. Asad should keep Rs. 50000 so as to accumulate to the amount of Rs. 73205 @ 10 % compounded annually

1. a) Solve using quadratic formula

b) Solve by factorization

1. a) If and prove that

b) Use inverse method to solve the simultaneous equations

**PAKISTAN SCHOOL, ISA TOWN BAHRAIN**

**PRE BOARD EXAMINATION 2021**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_**

**Paper: Business Mathematics 11th Time: 15min**

**Section A**

**Q: 1 Choose the correct answer. (1x10=10)**

i. Find if

(a) 22 (b) 24 (c) 26 (d) 28

ii. If 2 % of a number is 400. What is the number

(a) 18000 (b) 2000 (c) 22000 (d) 24000

iii. The cost of chair is Rs.160. The markup is 20%. What is the amount of profit on cost?

(a) Rs.32 (b) Rs.31.50 (c) Rs.30 (d) Rs.29.25

iv. The simple interest of loan Rs. 3000 for 2 years at 7 % is

(a) Rs.400 (b) Rs.420 (c) Rs.500 (d) Rs.550

v. The roots of equation

(a) 0, 2 (b) 0, -2 (c) 2, -2 (d) 0, 1

vi. Principal remains constant in calculation of \_\_\_\_\_\_\_\_\_ interest.

(a) simple (b) compound (c) normal (d) equal

vii. A matrix is called singular if its determinant is equal to

(a) 1 (b) 0 (c) -1 (d) 2

viii. The transpose of row matrix is

(a) row matrix (b) column matrix (c) unit matrix (d) none

ix. The degree of quadratic equation is

(a) 4 (b) 3 (c) 2 (d) 1

x. Profit is earned when

(a) S.PC.P (b) S.PC.P (c) S.PC.P (d) none