

Anjuman Islam Janjira Degree College of Science
Murud-Janjira, Raigad-402401
Affiliated to University of Mumbai

Class: -F.Y.BAF	Subject: - Business Mathematics
Semester:- II	Course Code:
Exam Event:- Summer 2024 (FH)	Marks: -75
Date: - 18/04/2024	Duration: - 2 Hours and 30 Minutes

Q1 A. Choose the correct alternative from the following and rewrite the sentence (Attempt any 8) 08

1. Ratio of 2km to 600m is
 a) 2:7 b) 10:7 c) 2:3 d) 10:3
2. If two quantities are related in such a way quantity, then this variation is said to be that increase in 1 quantity causes increase in other.
 a) Joint variation b) direct variation c) extreme variation d) increase variation
3. a: b=c: d b and c are called
 a) Antecedent b) extreme c) consequent d) mean
4. On what value discount is calculated?
 a) S.P. b) M.P. c) Market price d) None
5. On which of the following percent profit or profit is calculated?
 a) S.P. b) C.P. c) Market price d) None
6. In which case will an investor receive the most interest with rate 10 percent
 a) Annually b) Monthly c) Daily d) Continuously
7. The present value of amount depends upon
 a) Interest Rate b) No. of Periods c) Market price d) None
8. Market value is less than face value it is called _____
 a) At premium b) Below par c) At par d) None of these
9. Dividend paid by a share of company is based on _____
 a) Market value b) Face Value c) both a and b d) None
10. The shares which are paid a dividend from company is known as _____
 a) Equity b) Preference c) a and b d) None of these

QI B. Match the following . (Attempt any 7) 07

1. Equality	A. Portfolio Diversification
2. Inverse Variation	B. Equity Shares
3. Percentage to fraction	C. Equal Payments
4. M.P	D. Cars
5. S.P – C.P	E. Life Insurance Premium
6. Annuity	F. Market Price
7. Annuity Certain	G. Profit
8. Contingent Annuity	H. Proportion
9. Mutual Fund	I. Speed of car and time taken
10. Dividend	J. Divide by 100

QII) A. The ages of Aditya and Bhaskar are in the ratio of 7:8, 6 years ago their ages were in the ratio 5:6. Find their present ages. **07**

B. What least quantity must be added to each of the number 16,7,79, and 43 so that the resulting number are in proportion **08**

or

P. Income of X is 25% more than that of Y. Y's income is 8% more than that of C. If X income is 20250 then find the income of C. **07**

Q. A number is increased by 20% and then it is decreased by 20%. Find the next increased or decreased percentage. **08**

QIII) A. A person buys a TV for Rs. 20000 the transportation charges are Rs. 200 and the installation charges are Rs. 800. He sold that for 18000. Find the Loss or Profit. **07**

B. Ramesh bought a horse for Rs. 10000 each. He sold one horse at 15% profit and he sold second horse at a loss. If Profit of Income is earn on hold transactions. Find the selling price of the second horse. **08**

or

P. A man sold a bicycle at 5 percent profit if the cost price had been 20 % less and the selling price Rs. 50 less he would have made a profit of 10 %. What is the cost Price? **07**

Q. A trader marked 50% above the cost price and allows a discount of 25%. What is the gain percent? **08**

QIV) A. Find the amount at 6% simple interest of 1200 i) in 2 years ii) in 9 months **07**

B. In how many years will rupees 9000 amount to Rs. 13860 at 9% **08**

or

P. Find the compound interest for 20000 for 3 years at 10% p.a. **07**

Q. The simple interest at 10% p.a. on a certain sum of money for 5 years is 22500. Find the compound interest on the sum at the same rate for the same period. **08**

QV) A. Divide Rs. 29184 into 2 parts such that if one part is invested in 12% Rs. 100 shares at 8% premium the annual incomes are equal. **07**

B. A man invests Rs 4800 in shares of a company which was paying 10 percent dividend at the time when 100 rupees share cost Rs 150. Find the annual income from the shares. The rate of interest he gets on his on his investment. **08**

or

Write Short Notes (Any 3) **15**

1. Properties of Ratio
2. Distinguish between Trade and Cash Discount.
3. Annuity and its types
4. Types of Mutual Fund
5. Condition for Bonus Shares