

[Time:2.30 Hrs]

[Marks:75]

- N.B:
1. All questions are compulsory.
 2. Figures to the right indicate full marks.
 3. Use of non-programmable simple calculator is allowed.
 4. Graph paper will be provided on demand of student.

- Q.1 A) Choose the correct alternative from the following: (**Any Eight**) 8
- i) The duplicate ratio of 2:3 is _____.
a) 4:9 b) 9:4 c) 4:6 d) 6:4
- ii) The fourth proportional of 20, 28 and 35 is _____.
a) 50 b) 16 c) 25 d) 42
- iii) Trade discount is usually calculated as a percentage on the _____.
a) cost price b) net selling price c) invoice price d) list price
- iv) The difference between the net selling price and the cost price is called _____.
a) loss b) profit c) commission d) brokerage
- v) The future value is always ____ the present value.
a) more than b) less than c) equal to d) independent of
- vi) The simple interest on Rs. 12000 for 3 years at 8% p.a. is _____.
a) 2520 b) 3000 c) 2880 d) 2400
- vii) If the payments are made at the beginning of each period the annuity is called _____.
a) Annuity due b) Immediate annuity c) Uniform annuity d) none of these
- viii) The dividend is calculated on _____ of a share.
a) market value b) face value c) premium d) discount
- ix) If a share is available at a par, then its face value is _____.
a) lower than its market value b) equal to its market value
c) higher than its market value d) none of these
- x) 8% of certain amount is Rs.20 then the amount is _____.
a) 240 b) 160 c) 250 d) 200

- Q.1 B) Write True or False: (Any Seven) 7
- In a mutual fund, SIP stands for simple increment plan.
 - Par value and Market value of a share are same.
 - An annuity is a sequence of payments made at different interval of time periods.
 - A sinking fund is an annuity.
 - Cash discount is always given on the invoice price.
 - Printed price of goods is called list price.
 - Percentage is a ratio with 100 as its denominator.
 - Present value of an amount as also called accumulated value.
 - The product of ratio and its inverse ratio is always one.
 - The equity share dividend is fixed.
- Q.2 A) Mr. Vinay made a 7% loss by selling the article for Rs. 13,625. What would have been his percentage loss or gain if he had sold it for Rs. 15,250? 8
- B) Monthly incomes of A and B are in the ratio 7:4 and their expenditures are in the ratio 9:5. Each of them saves Rs. 10,000. Find their incomes. 7
- OR**
- C) A trader bought an article for Rs. 4000 and listed it for Rs. 9000. He gave 10% discount on the list price. What was his profit percentage? 8
- D) A, B and C invested Rs.70,000, Rs.50,000 and Rs.80,000 respectively in a business. At the end of the year, C received Rs.16,000 as his share in the profit. Find A's and B's share in the profit. 7
- Q.3 A) Mr. Nagori invested certain principal for 3 years at 8% interest compounded half yearly. If he received Rs.72957.5 at the end of 3rd year, find the periodic payment he made. $[(1.04)^6 = 1.2653]$ 8
- B) If Rs. 2700 amount Rs. 3078 in 2 years at a certain rate of interest, what will Rs. 7200 amounts to in 4 years at the same rate on interest? (Simple interest) 7
- OR**
- C) Mr. Prabhakar Naik has borrowed a sum of Rs. 60,000 from a person at 6% p.a. and is due to return it back in 4 monthly installments. Find the EMI he has to pay and also prepare the amortization table of repayment. 8
- D) A certain principal amounts to Rs. 4410 after 2 years and to Rs.4630.50 after 3 years at a certain rate of interest compounded annually. Find the principal and the rate of interest. 7

- Q.4 A) Rahul purchased 500 shares of Rs. 100 of company A at Rs. 700 /-. After 2 months, he received a dividend of 25 %. After 6 months, he also got one bonus share for every 4 shares held. After 5 months, he sold all his shares at Rs. 610/- each. The brokerage was 2% on both, purchases & sales. Find his percentage return on the investment. 8
- B) Ragini invested Rs. 94,070/- in mutual Fund when NAV was Rs. 460 /- with entry load of 2.25 %. She received a dividend of Rs. 5/- per unit. She, later sold all units of fund with an exit load of 0.5 %. If her gain was Rs. 1654/-, find NAV at which she sold the units. (Calculations are upto 2 decimal points) 7
- OR**
- C) Mr. Patil invested in a SIP of a M.F., a fixed sum of Rs. 10,000/- on 5th of every month, for 4 months. The NAV on these dates were Rs. 34.26, 46.12, 39.34 and 41.85. The entry load was 2.25 % throughout the period. Find the average price, including the entry load, using the Rupee-cost-Averaging method. How does it compare with the Arithmetic mean of the prices ? (Calculations are correct to 4 digits decimal) 8
- D) Amol wants to invest some amount in company A or company B , by purchasing equity shares of face value of Rs. 10 /- each, with market price of R. 360/- and Rs. 470/- respectively. The companies are expected to declare dividends at 20 % and 45% respectively. Advise him on the choice of shares of company. 7
- Q.5 A) What is annuity? Explain the types of annuities. 8
- B) Distinguish between equity share and preference share. 7
- OR**
- C) Write short notes on the following: (Any three) 15
- i) Bonus share
 - ii) compound interest
 - iii) Variation
 - iv) Trade discount and cash discount
 - v) S.I.P
