[Time: 2:30 Hours]   **[Marks:75]**

Please check whether you have got the right question paper.

N.B: 1.   All questions are compulsory.
              2.   Figures to the right indicate full marks
              3.   Use of only ordinary calculator is allowed.

Q.1 A   Choose the correct alternatives from the following (Attempt any 8)   08
1   If the angles of a triangle are in the ration 3:8:9 then their respective degree measures are
    1) $27^0, 72^0\ 81^0$
    2) $32^0, 70^0\ 78^0$
    3) $24^0\ 64^0\ 92^0$
    4)   None of these
2   If the cost price exceeds the net selling price then there is
    1)   Profit
    2)   Loss
    3)   No profit no loss
    4)   None of these
3   The difference between the market value and the net worth of a business is its
    1)   Profit
    2)   Good will
    3)   Loss
    4)   None of these
4   The difference between simple and compound interest on an amount at r % p.a. after one year is
    1)   Zero
    2)   One
    3)   100
    4)   None of these
5   If the payments of an annuity are all equal and are made over successive periods of time, then it is
    1)   Uniform annuity
    2)   Immediate annuity
    3)   Due annuity
    4)   None of these
6   A mutual fund with no entry load or exit load is called
    1)   Zero load fund
    2)   New load fund
    3)   1) or 2)
    4)   None of these
7   The shares which are paid a dividend at a rate which is decided by the board of directors of company are
    known as
    1)   Equity share
    2)   Preference share
    3)   1) or 2)
    4)   None of these

8   A load is expressed as a percentage of
    1) SIP
    2) NFO
    3) NAV
    4) AMC
9   The sub triplicate ratio of 1:64 is
    1) 64:1
    2) 3:192
    3) 1:16
    4) 1:4
10 An agent who guarantees the collections of dues from the customer is called
    1) Guarantor
    2) Factor
    3) Delcredere
    4) None of these

Q.1 B   State whether the following statements are true or false (attempt any 7)   07
1   Reduction in list price is commission.
2   Cash discount is the reduction given on the invoice price for cash payment
3   The trading of shares done using DMAT accounts through banks.
4   The EMI increases if the total payment period is increased.
5   If $\frac{a}{b} = \frac{c}{d,}$ then $\frac{ma}{b} = \frac{mc}{d}$
6   A fee levied on an investor at the time of purchasing units is called exit load.
7   Net assets are calculated as difference between total assets and liabilities of the scheme
8   If $A \propto B$ then $B \propto A$
9   Printed price on goods are called invoice price
10 If $\frac{a}{b} = \frac{c}{d}$ then a, b, c and d are in proportion.

Q.2 A   Two partners A and B agree to divide 30% of total profit s equally between them and the balance in the ratio   08
3:4. If total profit is Rs. 30,000, find A's share of the profit.

Q.2 B   The number of liters of water required to fill a circular tank jointly varies with the square of radius r^2 and the   07
depth d. If for a tank of radius 3 meters and depth 2 meters the water required is 30 liter. How much water
is required to fill the tank of radius 5 meters and depth 4 meters

OR

Q.2 P   A salesman is paid a fixed monthly salary plus a commission at a certain rate on sales. The salesman received   08
Rs. 1,130 and Rs. 1,360 as remuneration for two successive months and his sales were Rs. 17,100 and
Rs. 21,700 respectively. Find the fixed monthly salary and the rate of commission

Q.2 Q   A manufacturer makes a profit of 25% on cost after allowing a trade discount of 20% if the cost of   07
manufacturing increases by $12\frac{1}{2}$%, by how much percent should he reduce the trade discount if he wants to
earn the profit at the same percentage rate without changing the catalogue price?

Q.3 A   Sahil will pay shrikant Rs. 25,000 after 2 yrs and he will pay shubhash Rs 32,000 after 3 yrs. Find the total   08
present worth of both payments. If the interest rate is 8% p.a. compounded annually.

Q.3 B	Hiren bought a Honda active scooter by paying a cash of Rs. 10,000 and the remaining amount in 4 equal quarterly installments of Rs. 11,000 each. If company wants to get 12% rate of interest p.a. find the present value of the scooter.	07

<div align="center">OR</div>

Q.3 P	The simple and compound interest for 2 years on the same principal At the same rate are Rs. 7,200 and Rs. 7,622 respectively. Find the principle and the rate of interest.	08
Q.3 Q	Ridhima takes a loan of Rs. 80,000 from a person for a period of 10 months. Compute the EMI at 12% p.a. on reducing balance.	07
Q.4 A	Laila invested Rs. 12, 00,000 in a MF on 20th March, 2011 with NAV of 145.6. She redeemed all units on 9th Oct 2011 and received 2.5% rate of return. If there was no entry load or exist load, find NAV on date of Redemption.	08
Q.4 B	Ron got 260 shares of face value Rs. 10 each. He had to pay total amount of Rs. 99, 590.4 to complete the transaction 0.8% brokerage. Find the market price of each shares.	07

<div align="center">OR</div>

Q.4 P	Naksh invested Rs. 60,000 on 10th March 2011 when NAV was 18.75 with entry load of 2.25% calculate value of his investments on date of purchase and number of units. Also find its value on 20th September 2011 when NAV was 22.8	08
Q.4 Q	Find the market value of 12% share if Rs. 6,400 were invested to purchase share with a face value of Rs. 100 and a total dividend of Rs. 480 was obtained.	07
Q.5 A	Define annuity write types of annuity.	08
Q.5 B	Distinguish between shares and mutual funds	07

<div align="center">OR</div>

Q.5 P	Write short notes on any three of the following:	15

1. Loads on mutual funds
2. Distinguish between ratio and proportion
3. Describe direct and indirect variation
4. Define: commission agent, a del credere agent and an auctioneer
5. Explain : discount, trade discount and cash discount