

Note: 1) All questions are compulsory.

2) Use of Simple calculator is allowed.

3) Figure to the right indicate full marks of each sub questions.

Q.1. A) Fill in the blanks by choosing the correct options (Any Eight) (08)

1. The full form of SEBI is _____
a) Stock exchange board of India
b) Securities & Exchange board of India
c) Stock Exchange board of investment
d) None of these
2. Mutual Funds are managed by _____
a) Board of Directors b) SEBI c) Asset management d) None
3. The inverse ratio of a:4 is _____
a) 4:9 b) 9:3 c) 3:2 d) 2:3
4. If $x:y = 2:3$ & $y:z = 1:2$ then $x:z$ is _____
a) 7:11:10 b) 8:12:9 c) 10:12:11 d) None of these
5. Commission is usually calculated as a percentage of _____
a) Cost price b) Net selling Price c) List price d) Invoice price
6. Which is the following term is not used for the future value _____
a) Discounted value b) Sum Due c) Accumulated value d) Amount
7. 20% of 360 is _____
a) 7.2 b) 720 c) 72 d) 70
8. The sub-triplicated ratio of 27:8 is _____
a) 3:2 b) 9:4 c) 9:2 d) 2:9
9. If the payments of Annuity are made at the beginning of each period the Annuity is called _____
a) Annuity due b) Immediate Annuity c) Uniform Annuity d) Sum Due
10. Simple interest is always _____ than compound interest.
a) Less b) more c) Equal to d) None of these

Q.1. B) Write True or False (Any 7) (07)

1. Percentage is a ratio with denominator 100.
2. If $a < b$ then the ratio $a:b$ is called as a ratio of greater inequality.
3. A sinking fund is not an Annuity.
4. A mutual fund must have entry load and exit load.
5. $C.P + Profit = N.S.P.$
6. Annuity calculation usually use compound interest.
7. The buyer has to pay the seller and the broker both.
8. The simple interest of 3 years at 9% p.a. Rs.5,000 is Rs.1,300.
9. A mutual fund can never make a loss.
10. Par value & nominal value of a share are same.

Q.2. A) After giving a 12% discount on the list price a shirt was sold for Rs.1,056. Find the list price.

B) The monthly incomes of A & B are in the ratio 10:9 & their expenditure (07)
Are in the ratio 6:7. If A saves Rs.20,000 per month & B saves Rs.10,000 per month, then find their monthly income.

OR

(P) The no. of liters of water required to fill a circular (cylindrical) tank jointly (08)
Varies with the square of the radius r^2 & the depth c^1 . If for a tank of radius 3 meters & depth 2 meters the water required is 30 liters, how much water is required to fill the tank of radius 5 meters & depth 4 meters?

(Q) When sold at a profit of 6% an article fetch Rs.715 more than when it is sold at a (07)
Loss of 5%. Find its cost price.

Q.3. A) A principal amount to Rs.11,880, after 4 years \$ to Rs.14,040 after 7 years (08)
Find the principal and the rate of simple interest.

B) Hiren bought a HondaActive scooter by paying a cash of Rs.10,000& the (07).
Remaining amount in 4 equal quarterly installment of Rs.11,000 each. If company wants
to get 12% rate of interest p.a. find the present value of the scooter.

OR

(P) Anurag took a loan of Rs.60,000 with 10% interest per month to be (08)
Repayment in 5 month. Calculate EMI using reducing balance method. And also
calculate Amortization table.

(Q) The different between simple & compound interest on a certain amount (07)
For 4 years at 10% p.a is Rs.1282. find the principal.

Q.4. A) Find the face value of 6% share if Rs.8,000 were invested to purchase share (08)
At a market price of Rs.125 & a total dividend of Rs.576 was obtained.

B) Mr. Sameer invested Rs.15,500 in ICICI Mutual fund and received Rs.165.34 (07)
Units. Find NAV at the time of purchase i) If entry load is 0.5%
ii) If not entry load

OR

(P) Find the average cost per unit and the arithmetic mean of price of NAV. (08)
If Mr.Mohit invested 4500 per month in SIP scheme for 3 months. The NAV's are
Rs.102, Rs.117 & Rs.127 respectively with 2.25% entry load for the month given above.

(Q) Fred purchased 600 share of face value Rs. Each. The rate of brokerage (07)
Was 0.8% & the total sum be paid was Rs.1,45,152. Find the market price per share.

Q.5. A) Ratio, compound ratio & continued ratio with Example. (08)
B) Annuity and its types. (07)

OR

Q.5. Write any three short notes. (15)

- a) Discount & cash discount
- b) SIP
- c) Profit & Loss
- d) Proportion
- e) Type of Share.
