

FYFM

XYGAFS

Bus. Maths

15/10/19

(L)

Time: 2hr 30 min

Max Marks:75

INSTRUCTIONS TO THE CANDIDATE

- All Questions are compulsory
- Figures to the right indicate marks.
- Draw diagrams, charts, tables whenever applicable.
- Use of simple calculator will be permitted

Q.1 A) Choose the correct alternative (Any eight)

[8]

1. An annuity in which all the payments are equal is called
a) Equitable annuity b) Annuity due c) Uniform annuity d) None of these.
2. Cash discount is usually calculated as a percentage on the
a) Net selling price b) Invoice price c) List price d) None of these.
3. A load is expressed as a percentage of
a) SIP b) NFO c) NAV d) None of these. +
4. An annuity in which the number of payments is fixed, is called
a) Fixed annuity b) Limited annuity c) List price d) None of these
5. The full form of SEBI is
a) Stock Exchange board of India b) Securities and Exchange board of India c) Stock Exchange board of Investment. d) None of these
6. The inverse ratio of 9:4 is
a) 4:9 b) 3:2 c) 1:36 d) None of these
7. A Rs. 10 share at a 10% premium has a market price of Rs.

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a) 11 b) 9 c) 20 d) None of these

8. The price at which share is sold on the stock exchange is called _____.

a) Face value b) Stock price c) Market value d) None of these

9. The sub – triplicate ratio of 27:8 is _____.

a) 3:2 b) 9:4 c) 9:2 d) None of these

10. 20% of 360 is _____.

a) 7.2 b) 720 c) 72 d) None of these.

B) State true or false (Any 7)

[7]

1. A sinking fund is not an annuity.

2. The triplicate ratio of 1:2 is 1:8

3. C. P. + Profit = N.S.P.

4. Present value is just another name for face value.

5. The present value is always greater than the future value.

6. If $a < b$, then the ratio $a : b$ is called as a ratio of lesser inequality.

7. Percentage is ratio with 100 as its denominator.

8. Annuity calculations usually use compound interest.

9. A mutual fund will always make profit.

10. If a share is available at premium, then its face value is less than its market value.

Q 2 (a) A, B and C invested Rs 70,000, Rs 50,000 and Rs 80,000 respectively 8marks

in a business. At the end of year, C received Rs 16,000 as her share

in the profit. Find A and B's share in the profit.

(b) A trader gave 10% trade discount and a further 1% cash discount and 7marks

sold a bathroom fitting for Rs 2,16,513. Find the list price.

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OR

(c) A salesman is allowed 9% commission on total sales plus a bonus at 8marks
1.5% on the sales exceeding Rs 20,000. If he earned Rs 4,104 on commission
alone, find his total earnings.

(d) A person sold two necklaces for Rs 990 each and thus earned a 10% 7marks
profit on one and incurred a 10% loss on the other. If both the necklaces are considered
together, find the percentage profit or loss.

Q3(a) A sum of money amounts to Rs 6,29,563 in 4 years and Rs 5,20,300 8marks
in 2 years. Find the sum and the rate of compound interest.

(b) A sum of money amounts to Rs 51,920 in 2 years and to 7marks
Rs 59,840 in 4 years at a certain rate of simple interest. Find the sum and rate.

OR

© A loan of Rs 1,00,000 is to be returned in 4 equal monthly installments at 8marks
12% p.a. Calculate EMI using Reducing Balance method and Flat Interest Rate.

(d) A person deposits Rs 15,000 at the end of each year for 3 years. What is the 7marks
accumulated amount at the end of 3 years taking interest compounded at
12% p.a?

Q4(a) If 200 shares of face value Rs 2 were bought at Rs 20 each and sold at 8marks
Rs 22 each six months later, find the rate of return on investment.

(b) Sunita invested Rs 60,180 in ICICI mutual fund when NAV was Rs 236. 7marks
She sold all the units when the NAV touched Rs 320. If the entry load is 2%
and there is no exit load, find her gain in the transaction.

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OR

- © Find the rate of return on investment if some shares of Advani hotels were purchased at Rs 640 and later sold at Rs 690, the brokerage being 0.50% on both the transactions. 8marks
- (d) Ms X invested Rs 9,000 in Reliance Growth on 1st June 2004 at an NAV of Rs 54.85. Due to entry load the value of his units on that day was just Rs 8,823.06. Find the number of units and the entry load. 7marks

Q5 Write short notes on:

- (a) Explain types of shares. 8marks
- (b) Explain types of variation 7marks
- Or

Q5 Write short notes on:(Attempt any three) 15marks

- (a) Ratio
- (b) Sinking Fund
- (c) Mutual funds
- (d) Dividend
- (e) EMI