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CD - 20) 11/19 F.Y.B.A.F.: Sem-II(A.T.K.T)/Sub.	Business Mathematics
Duration:2 ½ hrs.	
	Max. Marks:75
Q.1) (A) Choose the correct an	swer (attempt any 8)
1) If x : y = 2 : 3 and y : z	
(a) 7:11:10	(b) 8 : 11 : 9
(c) 10 : 12 : 11	
	(d) none of these
(a) Profit	exceeds the cost price then there is
(c) No profit no loss	(b) Loss
	(d) None of these
 The cash discount is c (a) Not Solling price 	alculated on
(a) Net Selling price	
	(d) None of these
(a) 1000	15000 for 8 months at 10% p.a. is
(c) 1050	(b) 1500
	(d) none of these
5) The compound interes	t on 10,000 at 5% p.a. for 3 years is
(ə) 1500	(b) 1600
(c) 1400	(d) none of these
If the payment of annui	ty is made at the beginning of each period, the annuity is called
- i final	(b) Immediate annuity
(c) Uniform annuity	(d) None of these
Price at which a share is	traded in the stock exchange is called
(a) Market value	(b) Face value
(c) Discounted price	(d) Bone of these
8) The rate of dividend is given a set of the set of th	ven for of a share.
	(b) face value
	(d) None of these
	y load or exit load is called
	Said schargegens in en i

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	(a) Zero load fund	(b) New load fund	
	(c) (a(or (b)	(d) None of these	
	10) If the cost price exceeds t	he net selling price then there is	
	(a) Profit	(b) Loss	
	(c) No profit no loss	(d) None of these	
	Q.1) (B) True or false (any 7)		(07)
	1) The brokerage for a seller is	to be added in the sales value while	(07)
	calculating total amount the		
		an agent receives is directly proportional	
	to total transaction amount.		
	3) The product of a ratio and it		
		portion, then c is called mean proportional.	
ile		: in an annuity is always less than its stated rate of intere	
	6) The EMI increases if the tota		350.
		ds have a fixed date of maturity.	
	8) The return on a shareholder	s investments is called dividend.	
	9) The Equity shares are sold in	the market to the public.	
	10) The cash discount is calcula	ted on cost price.	
C	2.2. (A) Yuvraj invested Rs. 80,000 in	shares at market value Rs. 160 each with face	(08)
	value Rs. 100. If company decla	are 3 bonus shares for every 10 shares, after	
	he sold all shares at Rs. 140 eac	h. Find his net gain in this transaction.	
	(B) Given the following information of	of the mutual fund : Total number of units=1,20,000,	(07)
		00,000, market value of corporate bonds=Rs.30,00,000,	
	other assets of the fund=Rs.20,00,	000, liabilities Rs.6,00,000, payable of fund=Rs.4,00,000.	
	Find the NAV of the mutual fund.		
	and the invested Be 15000 op	OR 5 th of every month for 5 months in a SIP of a mutual fund.	(08)
		Rs.42.26, 40.25, 49.57, 51.48 & 39.26 respectively.	
		and a multi- mention Bind the average price including	

There was same entry load of 2.3% for all these months. Find the average price, including the entry load, using rupee cost averaging method.

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- (Q) Mr. Rahul has invested Rs.20,000 in a shares whose market value is Rs.40 and face value Rs.20. If he receives dividend at the rate of 12% find the amount of total dividend.
- Q.3). (A) Two partners A and B agree to divide 30% of total profits equally (08) between them and the balance in the ratio 3:4. If total profit is rs. 30000
 Find A's share of the profit .
 - (B) An article is marked rs. 700. Trade discount of 25% is allowed and (07) a further discount of 8% for cash payment t is also allowed. Find the Net selling price of an article.

OR

- (P) A company fixed the rate of commission to its salesman as follows: (08)4% of the first rs10000, 6% on the next rs 10000, 8% of the next 10000, 10% on the balance. The company pays incentive at 1/2 % of total sales if the total sales crossed rs 50000. Find the total earning of two salesmen who secured sales worth rs46000 and 59000. (Q) Divide the number 20 into two parts such that their ratio is 9:1. Also. (07)Find the number which is mean proportional between these two parts. Q.4 (A) A principal amounts to rs 11880 after 4 years and to rs 14040 after 7 (08)Years. Find the principal and the rate of simple interest. (B) Mr. Joshi deposits rs 8000 at the end of every year for 5 years in a (07)Bank. The bank charges the rate as 8% p.a., compounded quarterly. Find the effective rate of interest p.a. Also find the accumulated value. OR (P) find the present value of an annuity of rs. 1331, paid at the end of each (08)for 3 years, at 10% p.a. (07)
 - (Q) Mihir took a loan of rs 50000 from a company for a period of 1 year at 12% p.a. Find the EMI,using reducing method. Find the interest component and the principal component for first two years.

(07)

Q.5)	(a) Explain the term variation and it's type	
	(b) Explain ratio and types of ratio	(08)
Q.5)	write short notes (any three) OR	(07)
	a) Dividend and rate of return	
	b) preference share and bonus shares.	(05)
	c) Annuity and it's types.	(05)
	d) Trade discount and cash discount.	(05)
	e) EMI and type.	(05)
	and type.	(05)