MALINI KISHOR SANGHVI COLLEGE OF COMMERCE & ECONOMICS
SUBJECT: BUSINESS MATHEMATICS

CLASS: F.Y.B.Com.(A&F)	SEM-II ATKT	SEAT NO. _____

Name:

Note:
(i) All Questions are compulsory with internal choice.
(ii) Simple Calculator is allowed.
(iii) Graph papers will be provided on request.

Q1. Attempt any 15 QUESTIONS from given 20 and write your **correct option number** in answer book.   **[15]**

Q. No.	Questions	Option 1	Option 2	Option 3	Option 4
1	Dividend paid for a share by the company is based on its-----	F.V.	M.V.	average of F.V. and M.V.	shareholders discretion
2	Brokerage paid for a transaction of shares is based on its ---	F.V.	M.V.	average of F.V. and M.V.	shareholders discretion
3	The rate at which a share is traded in the market is called the ----of the share	M.V.	F.V.	par value	discount value
4	IPO means -----	Initial public offer	Initial payment offers	Investment price offer	Initial payment offers
5	The value of a share printed on the certificate of the share is called its ----	M.V.	Premium Price	F.V.	Discount Price
6	_____ is always declared on the F.V. of a share irrespective of its M.V.	F.V.	brokerage	bonus share	dividend
7	NAV of a fund is Rs. 50. After a year it becomes Rs. 60 so the % absolute change in NAV is	10	25	20	30
8	The NAV of a fund at the time of purchase was Rs. 240 and its NAV after 4 months was Rs. 254. The absolute change in NAV is	Rs. 40	Rs. 14	14.00%	10.00%
9	The simple interest on Rs. 6000 for 4 years @5% p.a. is	400	1200	1250	850
10	Principal is Rs. 1500 for 3 years with simple interest Rs. 225 Then the rate of simple interest is	3% p.a	4% p.a.	5% p.a.	6% p.a.
11	The simple interest on Rs. 5000 for 3 years @4% p.a. is	400	500	600	700
12	In EMI calculation, the rate of interest is compounded	monthly	quarterly	annually	daily
13	A sequence of payment made at successive time period or interval of time is known as	Annuity	Simple Interest	Present Value	Future Value

14	The inverse ratio of a:b is	b:a	a/b :b/a	1/a : 1/b	can not find
15	Profit is usually considered as a percentage on the cost price and loss is usually considered as a percentage on the _____ price.	Net selling	Invoice	Cost	List
16	Trade discount is usually calculated as a percentage on the _____ price.	Cost	Net selling	Invoice	List
17	Cash discount is usually calculated as a percentage on the _____.	Cost Price	Net selling price	Invoice price	List price
18	Commission is usually calculated as a percentage of _____.	Cost price	Net selling price	Invoice price	List Price
19	The list price minus trade discount is _____.	Invoice price	Net selling price	Reduced cost price	Cost price
20	The invoice price minus cash discount is _____ price	List	Reduced list price	Net selling price	Cost price

Q:2   Solve the following : (ANY-ONE)   **15 Marks**

[A]

i. Mr. ABC estimates that after 3 years he would require Rs.50,00,000 for his new business. He wishes to put aside money now, invested in an instrument giving interest 7% p.a. compounded half-yearly to meet his requirement then. How much money should he invest presently?

ii. Kartik purchased a TV set and paid Rs. 5,000 immediately, anther Rs. 5000 after a year and Rs.5000 after 2 years and thus became debt free. Find the price of TV set if compound interest charged was 3.5%.

OR

[B]

i. The compound interest and the simple interest on a sum of money at a certain rate for 2 years is Rs.3000 and Rs.3090 respectively. Find sum and the rate.

ii. A company decide to set aside a certain sum at the end of each year to create a sinking fund, which should amount to Rs.5 lakhs in 4 years at 12% p.a. Find the amount to be kept aside each year.

Q:3   Solve the following: (ANYONE)   **15 Marks**

[A]

i. Find the market price of a share at the time of purchase, if an investment of Rs.22110 in Rs.10 shares gave a total dividend of Rs. 297 at 9% rate of dividend.

ii. Mr.IJK invested Rs. 94070 in a mutual fund. When NAV was Rs. 460 with the entry load of 2.25%. He received a dividend at Rs. 5 per unit. He later sold all the units of the fund when NAV was Rs. 476 with exit load of 0.5%. What is the percentage gain?

[B]

i. What amount required to purchased Rs.10 share with total face value 4000 at 40% premium, with the brokerage being 0.25%.

ii. Mr. Deore invested Rs. 25,000/- to purchase 2,500 uits of ICICI MF - B plan on 4th April 2007. He decided to sell the units on 14th Nov. 2007 at NAV of Rs. 16.4 /-. The exit load was 2.5% . Find his profit (Calculations are upto 2 decimal points)

Q:4 Solve the following: (ANY-ONE)   15 Marks

[A]

i. Divide a profit of Rs.25,828 between 2 partners in the ratio 4.7

ii. By selling an article at Rs.3,000, a person earned 20% profit. What would have been the percentage profit or loss, if he had sold it at Rs.2,750?

OR

[B]

i. If 40% of a number is equal to 2/3rd of another number, what is the ratio of 1st number to the 2nd number?

ii. If A takes 5 days to complete a task when he works for 8 hrs a day, how many days he will take to complete the task if he works 5 hrs a day?

Q:5 Solve the following: (ANY-ONE)   15 Marks

[A]

i. An agent charged 8% commission on sales and thus earned Rs.3,708. Find the original selling price.

ii. A salesperson is allowed 9% commission on total sales plus a bonus at 1.5% on the sales exceeding Rs.20,000. If he earned Rs.4,104 on commission alone, find his total earnings.

OR

[B]

i. If the price after deducting 6% discount of a watch is Rs.21,996, find the original selling price.

ii. A trader gave 10% trade discount and a further 1% discount for cash payment. If the list price was Rs2,430, find the net selling price.