F.Y. BAF. Sem II- Medical Exam-June 2023

MALINI KISHOR SANGHVI COLLEGE OF COMMERCE & ECONOMICS

SUBJECT: BUSINESS MATHEMATIS

CLASS: F.Y.B.A.F.

SEM-II

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.

0.1

[A] Fill in the blanks. (Any 8 out of 10)

[8]

- i. At the time of purchasing the shares, brokerage isto the M.P. to calculate the net P.P. (added, subtracted, multiplied)
- ii. If the M.V. of a share is equal to its F.V. then the share is said to be.......

(at a premium, at par, at a discount)

- iii. The charge to an investor at the time of he redeems his units from fund is known as.......

 (Recovery charge, Redemption charge, Exit load)
- iv. At the time of selling shares, brokerage is to the M.P. to calculate the net S.P. (added, subtracted, multiplied)
- v. Purchase Price of NAV is obtained by adding to the NAV. (entry load, exit load, dividend)
- vi. Dividend paid for a share by the company is based on its----.

(F.V., M.V., share holders discretion)

- vii. The simple interest on Rs. 6000 for 4 years @5% p.a. is...... (400,1200, 850)
- viii. Rs. 8000 will amount to Rs.8840 at 3.5% p.a. simple interest inyears. (2, 3, 4)
- ix. The inverse ratio of a:b is.......

(b:a, a/b :b/a, 1/a : 1/b)

x. Three number a,b,c are said to be in continued proportion if....... (a/c=b/c, a/b:c/a, a/b=b/c)

[B] State True or False. (Any 7 out of 10)

[7]

- i. NAV is calculated as difference between total assets and liabilities of the scheme.
- ii. The charge to an investor at the time of the redeems his units from fund is known as Recovery charge
- iii. The rate at which a share is traded in the market is called the Face value of the share
- iv. If the F.V. of a share is Rs. 100 and it is traded at 14 % premium then ite M.V. is Rs. 96.
- v. If the F.V. of a share is Rs. 100 and it is traded at 12 % discount then its M.V. is Rs. 112.
- vi. If there is no trade discount then list price is same Invoice price.
- vii. If there is no trade and cash discount both then the List price is same as N.S.P.
- viii. Cash discount is usually calculated as a percentage on the Net selling price.
- ix. For Compound Interest, the formula for Amount (A) is $A = P(1+i)^n$.
- x. Present value is also known as discounted value

Q:2 Solve the following: (ANY-ONE)

[15]

[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]

- 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]

[A]

- i. Ramu Industries has issued 60,000 shares of par values Rs.10 each. The company declared a total dividend of Rs.72000. Find the rate of dividend paid by the company.
- 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?

OR

[B]

- i. Mr. XYZ invested in a stock having face value Rs.100. He received net dividend of Rs. 54 at the rate 4.5%. His total investment in the shares is Rs. 1284. The rate of brokerage is 1%. Find the market value of the shares?
- ii. If NAV was Rs. 72/- at the end of the year, with 12.5 % increase during the year, find NAV at the beginning of the year.

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

[15]

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]

[A]

- i. 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?
- 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] Write short notes. (ANY THREE)

- i. Flat rate of interest and reducing balance interest
- ii. Types of annuity.
- iii. Entry load and exit load
- iv. Types of share
- v. Dividend and bonus share