

Course : FYBAF

Subject : Business Mathematics

Max Marks: 75

Answer key

Duration: 2½ hours

All questions are compulsory. Figures to the right indicate full marks.

Q.1 (A) Attempt 8 out of 10 sub questions. Select the correct option. [08]

- (A-1) a - Rs. 1,500/-
- (A-2) b - Rs. 26,620
- (A-3) a - $SI = Pnr/100$
- (A-4) a - No compounding
- (A-5) b - Less than
- (A-6) a - Equated Monthly Installments
- (A-7) b - Dividend paid is 8 % of FV
- (A-8) a - Annuity
- (A-9) a - same
- (A-10) b - Annuity

(B) Attempt 7 out of 10 sub questions. State True of False. [07]

- (B-1) True
- (B-2) True
- (B-3) False
- (B-4) False
- (B-5) False
- (B-6) True
- (B-7) True
- (B-8) False
- (B-9) False
- (B-10) False

Q.2 (2-a) (i) Rs. 153. [08]
(ii) 20 %

(2-b) $A = \left[\frac{C}{i} \right] [(1 + i)^n - 1]$ [07]
Rs. 57179.44

OR --

Q.2 (2-c) (i) Rs. 10,000 [08]
(ii) Rs. 22,429

(2-d) 8 toys [07]

Q.3 (3-a) (i) Anand : 3000, Birju : 5000, and Chinu : 2000 [08]
(ii) 20 %

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(3-b) Rs. 69,735.60 [07]

OR -- --

Q. 3 (3-c) (i) Rs. 33,307.91 [08]
(ii) 12.36%

(3-d) Present value : Rs. 2050 [07]

Q. 4 (4-a) (i) Rs. 37,018 [08]
(ii) Rs. 600

(4-b) Gain : Rs. 1000 [07]
% gain : 35.71%

OR --

Q. 4 (4-c) Units : 360.1, Dividend received : Rs. 540.15, Profit from sell of unit : Rs. 4862.79, [08]
Total gain : Rs. 5402.94, Gain % : 10.8%

(4-d) 10 % [07]

Q. 5 (5-a) Ratio, Continued ratio and continued proportion [08]
(5-b) bonus shares and splitting of shares with suitable examples : [07]

OR --

Q. 5 Write any three short notes. [15]

- (5-c) Dividend reinvestment plan : Dividend declared and converted into units
- (5-d) Ordinary shares and preference shares
- (5-e) EMI : Equated monthly installments
- (5-f) Stated and Effective interest rates : Effect of compounding other than annual
- (5-g) Entry and Exit load in mutual funds : Fees charged by AMC in buying/selling units

End

Pl contact Sujal Shah on 9820910570 in case of queries