

TILAK MAHARASHTRA VIDYAPEETH, PUNE
BACHELOR OF BUSINESS ADMINISTRATION (B.B.A.) (071)/
B.Sc IN BUSINESS ADMINISTRATION(B.Sc.BA) (755)

EXAMINATION: MAY - 2026

SEMESTER - III

Sub.: Business Mathematics (BBA23-312/BBA24-312/BSBA24-24-312)

Date : 28/05/2026

Total Marks : 60

Time: 2.00 pm to 4.30 pm

Instructions: 1) All questions are compulsory.

2) Figures to the right indicate full marks.

Q. 1. Choose the most appropriate option. (05)

1. Business mathematics mainly deals with-----

- a) Social issues b) Business calculations
c) Business calculations d) None of these

2. The ratio of 20 : 40 is- -----

- a) 1:2
b) 2:1
c) 3:2
d) 4:1

3. Cash discount is given for-----

- a) Bulk purchase b) Immediate payment
c) Transport d) Storage

4. Compound interest is calculated on-----

- a) Principal only b)) Amount
- c) Principal + interest d) None

5. An annuity is-----

- a) Unequal payments b) Random payments
c) Equal payments at regular intervals d) One-time payment

Q. 2. State True / False (05)

1. Business Mathematics helps in solving business problems using mathematical methods.

- a) True b) False

2. Ratio compares two quantities of the same kind.

- a) True b) False

3. Trade discount is given to customers for immediate payment.

- a) True b) False

4. Simple interest is calculated only on the principal amount.

- a) True b) False

5. An annuity refers to equal payments made at regular intervals.

- a) True b) False

Q. 3. Write Short notes on (Any Three) (15)

1. Business Mathematics
2. Profit and Loss in Business
3. Cash Discount
4. Simple Interest
5. Annuity

Q. 4. Answer in detail (Any Two)

(20)

1. A shopkeeper sold goods worth ₹50,000 in a month. His profit percentage is 20%. Estimate-
 1. What is the profit earned?
 2. What is the cost price of goods?
 3. Why is percentage useful in business?
2. Two partners invest ₹40,000 and ₹60,000 in a business. Then find
 1. What is their investment ratio?
 2. If profit is ₹20,000, how will it be divided?
 3. Which concept is used here?
3. A sales agent sells goods worth ₹2,00,000 and receives 5% commission. Then calculate -
 1. Calculate commission earned.
 2. What is the importance of commission in business?
 3. Which concept is used?
4. A person invests ₹50,000 at 10% simple interest for 2 years. So calculate -
 1. Calculate simple interest.
 2. Calculate total amount.
 3. Which formula is used?

Q. 5. Case study

(15)

A retail clothing store has marked the price of a jacket at ₹2,000. During a seasonal sale, the store offers a 15% trade discount and an additional 5% cash discount for immediate payment.

A customer buys 3 jackets and pays immediately.

Question

1. Calculate the trade discount per jacket & Find the price after trade discount.
 2. Calculate the cash discount amount.
 3. Find the final price per jacket & Calculate the total amount paid for 3 jackets.
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