

**324207**

May-2026

**B.Sc. (AM)-II SEMESTER****Quantitative Reasoning****(BCA-23-109)**

Time: 3 Hours]

[Max. Marks : 75

*Instructions :*

- 1. It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
- 2. Answer any four questions from Part-B in detail.*
- 3. Different sub-parts of a question are to be attempted adjacent to each other.*

**PART-A**

- (a) Divide ₹1200 in the ratio 3 : 5 (1.5)

(b) If a sector represents  $90^\circ$  in a pie chart, what percentage does it represent? (1.5)

(c) If the Marked price is ₹1000. Discount is 20%. Find out the selling price. (1.5)

(d) Define the term Premise in critical reasoning. (1.5)

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- (e) What is the use of Context clues? (1.5)
- (f) Write down the difference between skimming and scanning. (1.5)
- (g) Define central idea of the passage. (1.5)
- (h) Arrange logically :
- (a) It started raining.
- (b) I carried an umbrella.
- (c) I went outside. (1.5)
- (i) What strategies can be used to solve cloze passages? (1.5)
- (j) Find the wrong number :  
4, 9, 16, 23, 36 (1.5)

### PART -B

2. (a) A shopkeeper marks an item 25% above the cost price and gives a discount of 10%. Find his profit percentage. (8)
- (b) Find the difference between compound interest and simple interest on ₹5000 at 10% per annum for 2 years. (7)
3. (a) The marks obtained by a student in 5 subjects are : 65, 70, 75, 80, and 90.
- (i) Find the average marks.

- (ii) If the student wants to increase the average to 80, what should be the marks in the 6th subject? (8)

- (b) (i) What is an assumption in critical reasoning?
- (ii) Given an argument, identify the implicit assumptions.
- (iii) Explain how these assumptions affect the strength of the argument. (7)

4. (a) (i) Explain how context helps in understanding unfamiliar words.
- (ii) From a given passage, infer the meanings of highlighted words using context.
- (iii) Discuss techniques for solving vocabulary-based questions in comprehension. (8)
- (b) (i) Explain the concepts of skimming and scanning with examples.
- (ii) Describe techniques for fast and active reading.
- (iii) Discuss how these techniques help in improving reading comprehension. (7)
5. (a) Fill in the blanks in the given passage with appropriate words :

"Success in life depends not only on talent but also on \_\_\_\_\_ (i) A person who is \_\_\_\_\_ (ii) and works consistently is more likely to achieve goals than someone who relies only on \_\_\_\_\_ (iii). Therefore, \_\_\_\_\_ (iv) plays a crucial role in success."

(i) Fill the blanks with suitable words.

(ii) Justify your choices based on context and meaning. (8)

(b) Rearrange the following jumbled sentences into a coherent paragraph :

(a) He finally found the solution after hours of effort.

(b) The problem seemed impossible at first.

(c) His persistence paid off in the end.

(d) He decided not to give up and kept trying.

(i) Arrange them in logical order.

(ii) Justify the sequence based on flow and coherence. (7)

6. (a) Find the missing term in the series :

3, 9, 27, 81, ?, 729 and explain. (8)

(b) Eight persons A, B, C, D, E, F, G, and H are

sitting in a row facing north.

- A is third to the right of B.
- C is second to the left of A.
- D is not at any end.
- E is to the immediate left of D.
- F is second to the right of E.
- G is not adjacent to B.

Find the exact seating arrangement. (7)

7. (a) The sum of ages of a father and son is 50 years.

The father is 30 years older than the son. (8)

(b) In how many ways can 5 boys and 4 girls be seated in a row such that no two girls sit together?

(7)