

FYBSC CS/SEM I/REG/Logical Reasoning

Time: 1 hr.

Marks:30

Note:

1. Draw neat diagrams wherever necessary.
2. Figures to the right indicate full marks.
3. Write any TWO questions from the following
4. Each question carry 15 Marks.

- Q.1** **Answer the following.** **[15]**
- (a) List and explain components of Logical Reasoning
- (b) Solve the following problem using key aspects logical reasoning:
- i. You have a bag with 5 red balls, 3 blue balls, and 2 green balls. If you draw one ball at random, what is the probability that it is either red or blue?
- Q.2** **Answer the following.** **[15]**
- (a) Explain the difference between formal and informal fallacies.
- (b) Describe the 'Straw Man' and 'Red Herring' fallacy with an example.
- Q.3** **Answer the following. (Any THREE)** **[15]**
- (a) Define Logic and explain its types
- (b) Explain the scope of Logic in different fields, especially in computer science.
- (c) Explain Fallacies of Ambiguity with examples
- (d) Why is it important to recognize fallacies in arguments?

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