

# **FD-2874**

BCA (Part-III) Examination, 2022

Paper - IV

Software Engineering

Time: Three Hours] [Maximum Marks: 80 [Minimum Pass Marks: 27]

**Note**: Answer any **two** parts from each question. All questions carry equal marks.

### **Unit-I**

- 1. (a) What do you mean by software engineering? Explain software engineering problems.
  - (b) Draw neat diagram of water fall model and explain it along with its advantages and disadvantages.

- (c) Write short notes on the following:
  - (i) Partitioning
  - (ii) Projection

#### Unit-II

- **2.** (a) Differentiate between size-oriented metrics and function-oriented metrics.
  - (b) Write the difference between cohesion and coupling.
  - (c) What is software matrices? How is it helpful in project management?

#### **Unit-III**

- **3.** (a) What do you understand by Choice of Programming?
  - (b) Explain Re-engineering Legacy System.
  - (c) What do you mean by context diagram and data dictionary?

### **Unit-IV**

- **4.** (a) Explain the different types of testing along with its advantages and disadvantages.
  - (b) Define Debugging. What are the common approaches in debugging?
  - (c) What is Software Quality Assurance?

## **Unit-V**

- **5.** (a) Explain work background structure.
  - (b) What is project monitoring and control?
  - (c) Explain the various software maintenance practices that may appear in software product.

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