

BCA-08

June – Examination 2022

BCA (Part II) Examination

Software Engineering

Paper : BCA-08

Time : 1½ Hours]

[Maximum Marks : 70

Note :- The question paper is divided into two Sections A and B. Write answers as per the given instructions.

Section-A

4×3½=14

(Very Short Answer Type Questions)

Note :- Answer any *four* questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries 3½ marks.

1. (i) Name the most preferable form of Cohesion and Coupling.

- (ii) Which SDLC model includes risk management ?
- (iii) List any *two* software metrics.
- (iv) Given a Control Flow Graph with E edges, N nodes and R regions, give the expression to calculate its cyclomatic complexity.
- (v) What is a Function Point ?
- (vi) What do you mean by 'Black Box' Testing ?
- (vii) Name the document that contains architecture, data and process level descriptions about a software.
- (viii) Explain the units used to measure/report efforts put into a software project.

Section-B **4×14=56**

(Short Answer Type Questions)

Note :- Answer any *four* questions. Answer should not exceed **200** words. Each question carries 14 marks.

- 2. Explain the Spiral SDLC Model in brief. How it differentiates from prototyping model ?

- 3. What do you understand by Software Engineering? Contrast your answer with traditional engineering.
- 4. Explain the terms associated with software cost estimation using COCOMO Model.
- 5. Differentiate between unit, system, integration and regression testing.
- 6. Discuss the recommended structure of a software requirement specification document.
- 7. What do you mean by Software Deployment and Maintenance ? Discuss approaches to reduce cost for software maintenance.
- 8. Explain the principles of software modelling with the help of UML diagrams.
- 9. Discuss any *two* software design principles with suitable examples.