

BCA-08

June – Examination 2023

BCA (Part II) Examination

Software Engineering

Paper : BCA-08

Time : 3 Hours]

[Maximum Marks : 70

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

Section-A

7×2=14

(Very Short Answer Type Questions)

Note :- Answer all 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 2 marks.

1. (i) Define Software Engineering.
- (ii) Define Software.

- (iii) Define Software Requirement.
- (iv) Define Prototype.
- (v) Give full form of SDLC.
- (vi) What is unit testing ?
- (vii) Define Verification.

Section-B **4×7=28**

(Short Answer Type Questions)

Note :- Answer any *four* questions. Each answer should not exceed **200** words. Each question carries 7 marks.

2. Discuss various characteristics of software.
3. Write short note on software re-engineering.
4. Write short note on software requirement specification.
5. What is need of software project planning ?
Discuss activities of software planning phase.
6. Write short note on structured analysis.
7. Discuss Integration Testing.
8. Discuss Cohesion and Coupling.
9. Explain the role of metrics in software engineering.

Section-C **2×14=28**

(Long Answer Type Questions)

Note :- Answer any *two* questions. You have to delimit your each answer maximum up to **500** words. Each question carries 14 marks.

10. Describe in detail software project estimation.
11. What is software design ? Explain various objectives and principles of software design.
12. What are software process models ? Explain various software process modes with their merits and demerits.
13. What are various principles of software testing ?
Explain the difference between white box and black box testing.