

BCA-08
June - Examination 2017
BCA Pt. II Examination
Software Engineering
Paper - BCA-08

Time : 3 Hours]

[Max. Marks :- 100

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

Section - A

10 × 2 = 20

(Very Short Answer Questions)

Note: Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum upto 30 words. Each question carries 2 marks.

- 1) (i) What do you mean by software engineering?
- (ii) What are software myths?
- (iii) Explain about an error, fault and failure.
- (iv) Define the term 'Software Reliability'.
- (v) What is CASE?
- (vi) Compare Cohesion and Coupling.
- (vii) What is software quality assurance?
- (viii) List different characteristics of a software.

- (ix) Define Project Planning.
- (x) What is System Testing?

Section - B**4 × 10 = 40**

(Short Answer Questions)

Note: Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 10 marks.

- 2) Compare and explain software verification and validation.
- 3) What is the difference between process metrics and product metrics? Differentiate between measurement and metric.
- 4) What is Software Requirement Specification? Explain with example.
- 5) List different types of testing used in software engineering and write the significance of each testing.
- 6) What are functional and non-functional requirements in software engineering? Explain their various types respectively.
- 7) Describe various Quality control methods.
- 8) What is prototyping? How is it useful for the development of requirement specification?
- 9) What is Risk? Explain various risks in software development.

Section - C**2 × 20 = 40**

(Long Answer Questions)

Note: Answer **any two** questions. You have to delimit your each answer maximum upto 500 words. Each question carries 20 marks.

- 10) Explain COCOMO Model used for software estimation.
 - 11) Explain the system design process in detail. Describe the concept of information hiding.
 - 12) State the various levels of CMMI Model and list down the key process areas required for each level.
 - 13) Compare and explain various software development process models.
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