



MAJ-1153

Seat No. _____

B. C. A. (Sem. V) Examination

October / November - 2018

BCA-503 : Software Engineering

Time : 3 Hours]

[Total Marks : 70

Instructions : Draw the figures where necessary.

- 1 (a) Answer the following : (any six) 6**
- (i) What is Software?
 - (ii) List out Principle of code ethics.
 - (iii) Define Term: Reusability
 - (iv) What is advantage of Software Engineering ?
 - (v) List out product quality factors.
 - (vi) Define Term: Software Engineering.
 - (vii) Model works as a guide-liner for making software in a perfect way in S.E.?
(Yes/No)
- (b) Answer the following : (any two) 12**
- (i) Explain software applications in detail.
 - (ii) Explain Incremental model in detail
 - (iii) Explain Software Myths in detail.
- 2 (a) Answer the following : (any five) 5**
- (i) What is major advantage of Software Engineering?
 - (ii) List the components of SRS.
 - (iii) What is use of web application patterns?

(iv) Define Term: Role of Metrics and Measurement.

(v) What is function oriented design ?

(vi) What is design?

(b) Answer the following: (any **two**) 12

(i) What is SRS? Discuss the types of requirement in detail.

(ii) Discuss the types of design pattern in detail.

(iii) Short note on: Different roles of management in software development process.

3 (a) Answer the following : (any **six**) 6

(i) What is testing?

(ii) What is Fault?

(iii) What is black box testing?

(iv) Define Term: Unit testing.

(v) What is structure programming ?

(vi) What is advantage of white box testing?

(vii) What is main advantage of testing?

(b) Answer the following : (any **two**) 12

(i) Explain "Top Down and Bottom Up approaches" for testing.

(ii) What is coding? Discuss the programming style in coding?

(iii) Explain Alpha, Beta and Gamma testing.

- 4 (a) Answer the following : (any **five**) 5
- (i) What is Risk?
 - (ii) Full Form of: CASE, UDF.
 - (iii) What is Verification?
 - (iv) What is Validation?
 - (v) Define Term: Risk identification.
 - (vi) Define Term: Project planning.
- (b) Answer the following : (any **two**) 12
- (i) Short Note: Software Risk Management
 - (ii) Describe ISO-9000 in detail.
 - (iii) Explain Objective of quality management in detail.
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