

D 70190

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Name.....

Reg. No.....

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2019

(CUCBCSS-UG)

B.C.A.

BCA 5B 10—PRINCIPLES OF SOFTWARE ENGINEERING

(2017 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A

Answer all questions.

Each question carries 1 mark.

1. List out the layers of software engineering.
2. Give two umbrella activities.
3. What do you mean by reverse engineering ?
4. _____ is a system test that forces the software to fail in a variety of ways and verifies that recovery is properly performed.
5. _____ executes a system in a manner that demands resources in abnormal quantity, frequency or volume.
6. Deployment testing is also known as _____.
7. What do you mean by business process re-engineering ?
8. A prioritized list of project requirements or features that provide business value for the customer is _____.
9. List out the framework activities in XP process.
10. What is called integration testing ?

(10 × 1 = 10 marks)

Part B

Answer all questions.

Each question carries 2 marks.

11. Write a note on spiral model.
12. Briefly write down about dynamic system development model (DSDM).
13. Discuss about the modularity in design aspect.
14. What are user defined data types ?
15. Write a note on security testing.
16. How will you negotiate the requirements ?

Turn over

17. What do you mean by Quality Function Deployment (QFD) ?
18. Write about the deployment diagram.

(8 × 2 = 16 marks)

Part C

*Answer any six questions.
Each question carries 4 marks.*

19. Draw a class diagram for library management system.
20. Explain different evolutionary process models.
21. How the requirements model is built ?
22. Write a note on specialized process models.
23. Explain different design aspects in design process.
24. Illustrate the activity diagram with an example.
25. What are the standards and guidelines for coding styles ?
26. Explain software re-engineering.
27. Discuss all validation testing techniques in detail.

(6 × 4 = 24 marks)

Part D

*Answer any three questions.
Each question carries 10 marks.*

28. Draw the use case diagram and activity diagram for hospital management system.
29. Differentiate incremental process models and evolutionary process models.
30. Explain the testing strategies for object oriented software.
31. Detail the documentation guidelines for software engineering.
32. How will you elicit the requirements ? Discuss.

(3 × 10 = 30 marks)