D 40092 (Pages : 2) Name.....

Reg. No.....

SIXTH SEMESTER B.C.A. DEGREE EXAMINATION, MARCH/APRIL 2018

(CUCBCSS—UG)

BCA 6B 14—SOFTWARE ENGINEERING

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. ——— are the events that are used to ascertain the status of the project.
2. What is delivered to the customer is known as ———.
3. A ——— gives a graphic view of the processing logic involved in decision making and corresponding actions taken.
4. The most desirable form of coupling is ———.
5. The property of a class is known as ———.
6. ——— is an extensible framework which needs to be customized for specific type of projects.
7. A ——— is a dummy procedure that has the same I/O parameters as the given procedure, but has a highly simplified behavior.
8. CMM stands for ———.
9. ——— of a software product is necessary to rectify the bugs observed while the system is in use.
10. ——— is the process of recovering the design and the requirements specification of a product from an analysis of its code.

(10 × 1 = 10 marks)

Part B

Answer **all** *questions.*
2 *marks each for all questions.*

11. Distinguish between a program and software product.
12. What is a formal technique ?
13. What is a model ?
14. Write short note on X-Windows system.
15. Discuss the importance of ISO 9000 certification

(5 × 2 = 10 marks)

Turn over

Part C

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

16. Differentiate between structured analysis and structured design.
17. What is project planning ? Explain the different project planning activities.
18. What is the importance of requirement analysis ? What are the problems in requirement that the analyst needs to identify ?
19. Explain how activity diagrams helps in system development ? How does the activity diagram differ from a flowchart ?
20. Explain different type of Patterns in different stages of design
21. Write short note on command language based interface and its designing issues.
22. Write short note on different type of widgets
23. Discuss various software product quality factors

(5 × 4 = 20 marks)

Part D

Answer any **five** *questions.*
Each question carries 8 *marks*

24. Explain COCOMO model.
25. What are the risks in software development ? What are the different activities in risk management ?
26. Explain object orientation concepts
27. What do you mean by cohesion ? Explain various types of cohesion.
28. Explain different types of diagrams and views supported in UML.
29. Write the role of user interface ? Explain the characteristics of a good user interface.
30. Explain the importance of CASE tools in software engineering.
31. What do you mean by software reuse? What are the basic issues in any reuse of a program ?

(5 × 8 = 40 marks)