18U671S (Pages: 2) Name: ……..…….

Reg. No……..……

SIXTH SEMESTER B.C.A. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS-UG)

CC15U BCA6 B14 - SOFTWARE ENGINEERING

(Computer Application – Core Course)

(2015, 2016 Admissions - Supplementary)

Time: Three Hours Maximum: 80 Marks

PART A (Objective Type Questions)

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

1. Software consists of _____
   a. Set of instructions + operating procedures
   b. Programs + documentation + operating procedures
   c. Programs + hardware manuals
   d. Set of programs
2. What does the physical connections between the elements of the OO design represent?
   a. Cohesion b. Coupling c. Both A & B d. None of the above
3. What is the main aim of Software engineering?
   a. Reliable software b. Cost effective software
   c. Reliable and cost effective software d. None of the above
4. Abbreviate the term CMMI.
   a. Capability Maturity Model Integration b. Capability Model Maturity Integration
   c. Capability Maturity Model Instructions d. Capability Model Maturity Instructions
5. Which of the following is not a uml diagram used creating a system analysis model
   a. Activity diagram b. Class diagram c. Data flow diagram d. State diagram
6. Acceptance test are normally conducted by _____
   a. Developer b. End user c. Test team d. system engineer
7. _____ is not a Software Test Life Cycle Phase?
   a. Requirements Gathering b. Test Planning
   c. Test Closure d. Test Design
8. Which of the following is responsible for the quality objective?
   a. Top level management b. Middle level management
   c. Frontline management d. All of the above
9. Which metric is related to the software maintenance?
   a. Development b. Software c. Process d. Product
10. in which step SDLC project termination could be done
    a. Design phase b. System maintenance phase
    c. Feasibility study phase d. Coding phase

(10 × 1 = 10 Marks)

PART B (Short Answer Questions)

Answer ***all*** questions. Each question carries 2 marks.

11. Distinguish between product and process metric.
12. What are characteristics of good software design?
13. List the advantageous of waterfall model.
14. Differentiate code inspection and code walkthrough.
15. Define software reliability.

(5 × 2 = 10 Marks)

PART C (Short Essay Questions)

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

16. Explain various project team structures with neat diagram.
17. List the characteristics of good quality SRS.
18. List difference types of coupling and cohesion.
19. Consider a scenario was registered for different courses. Once it is confirmed, the form and the fees are sent to the account section. Hall ticket for three subjects will be generated. Draw a data flow diagram.
20. Describe the SA/SD methodology.
21. What do you understand by black-box testing?
22. Explain the characteristics of CASE tool.
23. What is reverse engineering?

(5 × 4 = 20 Marks)

PART D (Essay Questions)

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

24. Explain any three software life cycle modal.
25. Explain about structured analysis and design.
26. Discuss about function oriented and object oriented design.
27. What is the use of data flow diagram? Explain the important concepts of data flow diagram.
28. Explain about

    a) Data flow diagram b) use case diagram c) class diagram d) activity diagram
29. What are the characteristics of user interface? Explain component based GUI development.
30. Discuss the relative metrics of ISO 9000 and the SEI CMM based quality assessment.
31. How do case tool support in software life cycle?

(5 × 8 = 40 Marks)

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