REV-01 BCA/03/08

c. the processes

BACHELOR OF COMPUTER APPLICATION THIRD SEMESTER SOFTWARE ENGINEERING BCA-302(REPEAT)

[USE OMR SHEET FOR OBJECTIVE PART]

Full Marks: 70 Duration: 3 hrs. **Objective** Marks: 20 Time: 30 mins. 1×20=20 Choose the correct answer from the following: 1. What is Software? b Documentation and configuration of a. Set of programs d None of these c. Set of programs, documentation, and configuration of data is not suitable for accommodating any change? 2. a. RAD Model b. Waterfall Model c. Build & Fix Model d. Prototyping Model 3. Project planning consists of a. Estimating some basic attributes like b. Scheduling manpower and other cost, duration & effort resources c. Staffing, risk identification d. All of these 4. White-box testing are b. Condition Coverage Testing a. Statement Coverage testing d. All of these c. Data Flow Testing 5. Alpha testing is performed by ----a. Developer team b. Users' friendly customers d. None of these c. Customers 6. The key objective of integration testing is to remove b. Interface errors a. Design errors d. All of these c. Procedure errors 7. Which of the following is not an advantage of software reuse? b. Faster software development a. Lower cost d. Low risks c. High effectiveness 8. While constructing a data dictionary, the analyst considers a. each data flow in the DFD has one data b. Definitions must be readily accessible by dictionary entry name. c. There should be no redundancy in the d. None of these data definition. 9. The Data Flow Diagram (DFD) shows a. the flow of data b. the data where they are stored

d. All of these

10. System specifications are used to b. describe system flows a. get an accurate picture of the system d. All of these c. avoid ambiguity 11. Which of the following is not a part of a Data Flow Diagram? a. Disk storage b. Arrow c. Process represented by a bubble circle d. Data store 12. Which of the following is a desirable property of a system? a. Independency b. Low Cohesiveness c. Multifunctional d. High Coupling 13. SRS document is prepared by a. System analyst b. Project Manager c. Testing Engineer d. None of these 14. Which of the following testing is the part of non-functional testing? a. Unit testing b. Performance testing d. System testing c. Integration testing 15. Which of the following is not project management goal? a. Keeping overall costs within budget b. Delivering the software to the customer at the agreed time c. Maintaining a happy and welld. Avoiding customer complaints functioning development team 16. What are attributes of good software? a. Software maintainability b. Software functionality c. Software maintainability & d. Software development functionality 17. Which of the following is the most widely used interface? a: Command based b. Text based c. Graphical User Interface d. None of these 18. Software engineering primarily means on a. Reliable software b. Cost effective software c. Reliable and cost effective software d. None of these 19. Test suit is a. Set of test cases b. Set of inputs

c. Set of outputs

a. Lines of Codes (LOC)

c. Feature Point Metric

20. The simplest metric to estimate project size is

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d. None of these

d. None of these

b. Function Point Metric

$\left(\underline{\text{Descriptive}} \right)$

Time: 2 hrs. 30 mins.		Marks:'5
[Answer question no.1 & any four (4) from the rest]		
1.	What is Software Life Cycle Models? What are the different phases of classical water fall model? Explain - Software Engineering is a layered technology.	2+3+5=10
2.	What are the different types of maintenance that a software product need? Explain software reverse engineering.	5+5=10
3.	What do you mean by the terms cohesion and coupling in the context of software design? Enumerate the different type of cohesion that a model might exhibit.	3+4+3=10
4.	What is an interface? Discuss the characteristics of a good interface	2+8=10
5.	Why is it important for an organization to undertake an effective reuse program? What can be reused? Discuss the basic issues in any reuse program.	2+2+6=10
6.	What is testing? Explain Unit testing, Integration testing and system testing. Explain Black box testing with example	2+3+5=10
7.	Who are the different categories of users of the SRS document? What are their expectations from the SRS document? Give the organization of the SRS document.	2+5+3=10
8.	Explain different categories of software development projects according COCOMO model. State the basic COCOMO model.	6+4=10

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