Printed Page:- Subject Code:- ACSBS0304 Roll. No: NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA (An Autonomous Institute Affiliated to AKTU, Lucknow) B.Tech SEM: III - CARRY OVER THEORY EXAMINATION - APRIL 2023			
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Subject: Software Engineering			
Time: 3 Hours Max. Marks: 100			
General Instructions:			
IMP: Verify that you have received the question paper with the correct course, code, branch etc.			
1. This Question paper comprises of three Sections -A, B, & C. It consists of Multiple Choice			
Questions (MCQ's) & Subjective type questions.			
2. Maximum marks for each question are indicated on right -hand side of each question.			
A Assume suitable data if necessary			
5 Preferably write the answers in sequential order			
6. No sheet should be left blank. Any written material after a blank sheet will not be			
evaluated/checked.			
SECTION A 20			
1 Attempt all parts:-			
1.2. Efficiency in a coffware product does not include (CO1) 1			
T-a. Efficiency in a software product does not include(COT)			
(a) Responsiveness			
(b) Licensing			
(c) Memory utilization			
(d) Processing time			
1-b. The reason for software bugs and failures is due to (CO1) 1			
(a) Software companies			
(b) Software Developers			
(c) Both Software companies and Developers			
(d) All of the mentioned			
1-c. Which of the following is not project management goal? (CO2) 1			
(a) Keeping overall costs within budget			
(b) Delivering the software to the customer at the agreed time			
(c) Maintaining a happy and well-functioning development team			

- (d) Avoiding customer complaints
- 1-d. CASE Tool is (CO2)
 - (a) Computer Aided Software Engineering
 - (b) Component Aided Software Engineering
 - (c) Constructive Aided Software Engineering
 - (d) Computer Analysis Software Engineering
- 1-e. Which one of the following is not a software quality model? (CO3)
 - (a) ISO 9000
 - (b) McCall model
 - (c) Boehm model
 - (d) ISO 9126
- 1-f. Which level of CMM is for process management? (CO3)
 - (a) Initial
 - (b) Repeatable
 - (c) Defined
 - (d) Optimizing
- 1-g. Which of the following property does not correspond to a good Software 1 Requirements Specification (SRS) ? (CO4)
 - (a) Verifiable
 - (b) Ambiguous
 - (c) Complete
 - (d) Traceable
- 1-h. How many Scenarios are there in elicitation activities ? (CO4)

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- (a) One
- (b) Two
 - (c) Three
 - (d) Four
- 1-i. How many types of test plans are available for software testing (CO5)
 - (a) 4
 - (b) 3
 - (c) 2
 - (d) 5

1-j. Maintenance Quality metrices defines Characteristics that can be used to 1

improve the development and maintenance activities of the software (CO5)

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- (a) TRUE
- (b) FALSE

2. Attempt all parts:-

2.a.	Why is it difficult to improve software process? (CO1)	2	
2.b.	Explain Low Level Or Detailed Design concerning SDLC (CO2)	2	
2.c.	Explain stress testing, load testing and volume testing? (CO3)	2	
2.d.	Draw the DFD for the following (i) External entity (ii) Data items (CO4)	2	
2.e.	What is modularity? (CO5)	2	
	SECTION B	30	
3. Answer any <u>five</u> of the following:-			
3-a.	What is a myth? Give a focus on various software myths regarding Management and Practitioner? (CO1)	6	
3-b.	Explain software project failure? What is recoverable and unrecoverable failure? (CO1)	6	
3-c.	What is Feasibility Study? (CO2)	6	
3-d.	Explain the term lack of knowledge in risk management? (CO2)	6	
3.e.	Explain what are test driver and test stub and why it is required? (CO3)	6	
3.f.	List down few process and product metrics.(CO4)	6	
3.g.	Explain object oriented design concept with example.(CO5) SECTION C	6 50	
4. Answer any <u>one of the following</u> :-			
4-a.	Write the similarity and difference between software engineering process and	10	
	conventional engineering process. (CO1)		
4-b.	What is Software Requirements Specification? (CO1)	10	
5. Answer any <u>one</u> of the following:-			
5-a.	What are the limitation of Prototype models? Explain with all phases of prototype model? (CO2)	10	
5-b.	Explain the Software Maintenance Process? (CO2)	10	
6. Answer any <u>one</u> of the following:-			
6-a.	Describe the following terms: i) Operational Profile ii) Input space iii) MTBF iv) MTTF v) Failure intensity (CO3)	10	
6-b.	What do you mean by software quality standards? Illustrate their essence as	10	

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well as benefits. (CO3)

7. Answer any <u>one</u> of the following:-

- 7-a. Explain various cost estimation models and compare.(CO4) 10
- 7-b. Describe two metrics which are used to measure the software in detail. Discuss 10 clearly the advantages and disadvantages of these metrics. (CO4)

8. Answer any one of the following:-

- 8-a. Explain the concept of object and classes in line with software engineering. 10 (CO5)
- 8-b. Explain significance of unit testing. Explain various steps involved in it. (CO5) 10

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