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 - THEORY EXAMINATION (2021 - 2022)

Subject: Software Engineering

Time: 03:00 Hours Max. Marks: 100

General Instructions:

1. All questions are compulsory. It comprises of three Sections A, B and C.

- Section A - Question No- 1 is objective type question carrying 1 mark each & Question No- 2 is very short type questions carrying 2 marks each.
- Section B - Question No- 3 is Long answer type - I questions carrying 6 marks each.
- Section C - Question No- 4 to 8 are Long answer type - II questions carrying 10 marks each.
- 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-a. Software engineers should not use their technical skills to misuse other people's computers. "Here the term misuse refers to (CO1) 1

1. Unauthorized access to computer material
2. Unauthorized modification of computer material
3. Dissemination of viruses or other malware
4. All of the mentioned

1-b. The reason for software bugs and failures is due to (CO1) 1

1. Software companies
2. Software Developers
3. Both Software companies and Developers
4. All of the mentioned

1-c. The process each manager follows during the life of a project is known as (CO2) 1

1. Project Management
2. Manager life cycle
3. Project Management Life Cycle
4. All of the mentioned

1-d. Which of the following is not project management goal? (CO2) 1

1. Keeping overall costs within budget
2. Delivering the software to the customer at the agreed time
3. Maintaining a happy and well-functioning development team
4. Avoiding customer complaints

1-e. Which one of the following is not a software quality model? (CO3) 1

1. ISO 9000
2. McCall model
3. Boehm model
4. ISO 9126

1-f. What is MTTF ? (CO3) 1

1. Maximum time to failure
2. Mean time to failure
3. Minimum time to failure
4. None of the mentioned

1-g. Which of the following property does not correspond to a good Software Requirements Specification (SRS) ? (CO4) 1

1. Verifiable
2. Ambiguous
3. Complete
4. Traceable

1-h. The SRS document is also known as _____ specification. (CO4) 1

1. black-box
2. white-box
3. grey-box
4. none of the mentioned

1-i. Test case gives detailed information about testing strategy, testing process, preconditions, and expected output (CO5) 1

1. TRUE
2. FALSE

1-j. Functional Testing is also refered as (CO5) 1

1. White Box Testing
2. Sand Box Testing
3. Maintinance testing
4. Black Box Testing

2. Attempt all parts:-

2-a. 'Software does not wear out'. Justify (CO1) 2

2-b. What Is SDLC? (CO2) 2

2-c. What is quality audit? (CO3) 2

2 Define functional requirements. (CO4) 2

2-e. What is modularity (CO5) 2

SECTION B 30

3. Answer any five of the following:-

3-a. What is a myth? Give a focus on various software myths regarding Management and Practitioner? (CO1) 6

3-b. What are the advantages of iterative development? Compare iterative development with Incremental delivery approach. (CO1) 6

3-c. How would you explain project life cycle? (CO2) 6

3-d. What is Feasibility Study? (CO2) 6

3-e. What is software failure? How is related with fault? (CO3) 6

3-f. List any 4 categories of CASE tools. (CO4) 6

3-g. What do you mean by modularization. Write properties of a module. (CO5) 6

SECTION C 50

4. Answer any one of the following:-

4-a. Explain the framework of software process? (CO1) 10

4-b.	Compare Traditional engineering approach and software engineering approach. (CO1)	10
5. Answer any one of the following:-		
5-a.	Explain the phases of SDLC with digramatic representation ? (CO2)	10
5-b.	What are the limitation of Prototype models? Explain with all phases of prototype model? (CO2)	10
6. Answer any one of the following:-		
6-a.	Explain how the CMM encourages continuous improvement of the software process. (CO3)	10
6-b.	Discuss the 20 clauses of ISO-9001. Why is it suggested that CMM is the better choice than ISO-9001? (CO3)	10
7. Answer any one of the following:-		
7-a.	What Is the Need For An SRS Document? (CO4)	10
7-b.	What are the Software Requirement Validations? (CO4)	10
8. Answer any one of the following:-		
8-a.	Explain the concept of object and classes in line with software engineering. (CO5)	10
8-b.	Why polymorphism is important. Justify (CO5)	10