

SRM Institute of Science and Technology College of Engineering and Technology School of Computing

Mode of Exam

OFFLINE

DEPARTMENT OF COMPUTING TECHNOLOGIES

SRM Nagar, Kattankulathur – 603203, Chengalpattu District, Tamil Nadu

Academic Year: 2024 - 2025 - Odd Semester

Test: CLAT3

Batch 1 – SET A

Course Code & Title: 21GNH101J Philosophy of Engineering
Year & Sem: I year & I Sem

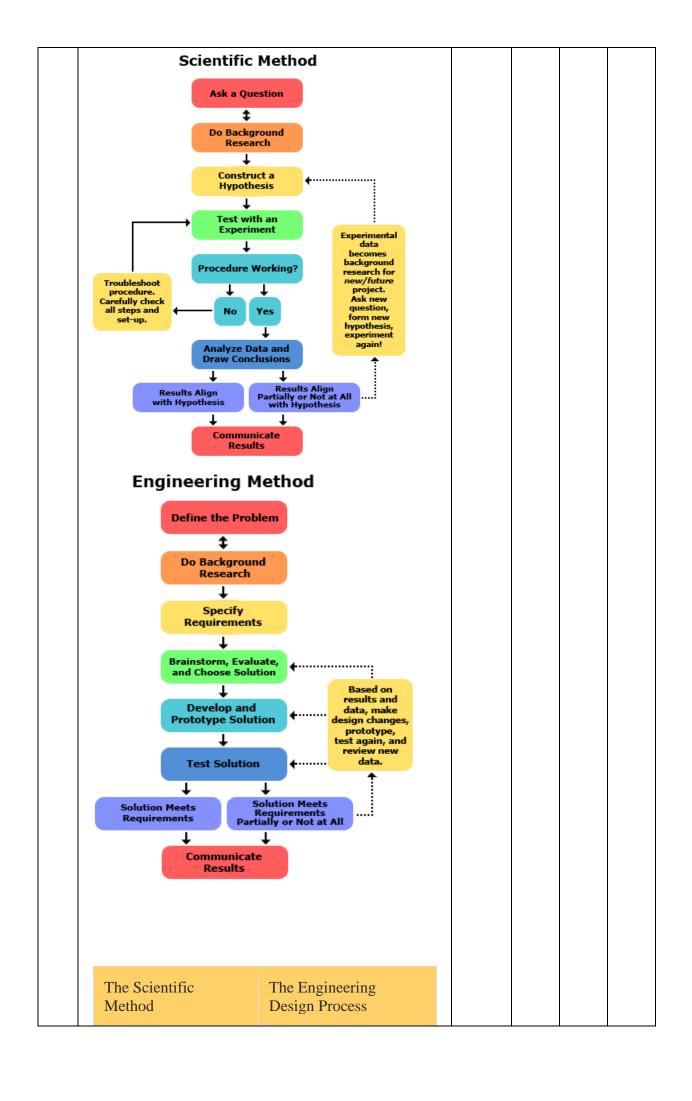
Date: 11.12.2024

Duration: 60 min
Max. Marks: 35

Registration Number:

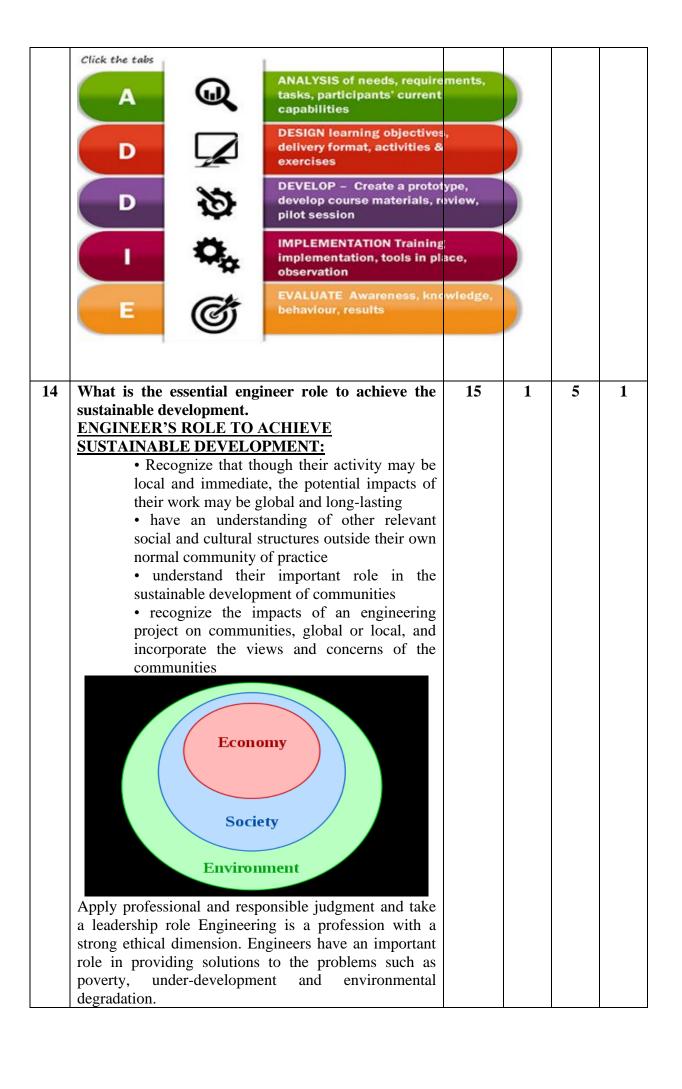
| Kegi | istration Number: Part – A | | | | |
|------|--|-----------|----|----|----|
| | (10 * 1 = 10 Marks) | | | | |
| | Instructions: Answer all the Quest | ions | | | |
| Q. | Question Question | Marks | BL | CO | PO |
| No | Question | IVIUI IIS | DL | | |
| 1 | performs experiments using the scientific | 1 | 1 | 4 | 1 |
| | method. | | _ | | _ |
| | a) Engineers | | | | |
| | b) Doctors | | | | |
| | c) Scientists | | | | |
| | d) Students | | | | |
| 2 | The of the data the system operates on is of | 1 | 1 | 4 | 1 |
| | the highest consideration when designing a reliable and | | | | |
| | fault-tolerant architecture. | | | | |
| | a) Security | | | | |
| | b) Integrity | | | | |
| | c) Consistency | | | | |
| | d) Reliability | | | | |
| 3 | Hypothesis testing method | 1 | 1 | 4 | 3 |
| | a) Engineering | | | | |
| | b) Scientific | | | | |
| | c) Addie | | | | |
| | d) CIDO | | | | |
| 4 | The prototype creation is involved in | 1 | 1 | 4 | 1 |
| | phase of Addie model. | | | | |
| | a) Evaluation phase | | | | |
| | b) Implementation phase | | | | |
| | c) Development phase | | | | |
| | d) Design phase | | | | |
| 5 | The course of action that is carried out for checking the | 1 | 1 | 4 | 1 |
| | stability of individual components and its design is | | | | |
| | called | | | | |
| | a) Integration testing | | | | |
| | b) Derived testing | | | | |
| | c) Unit testing | | | | |
| | d) Recovery testing What is the fundamental principal of the engineer's | 1 | 2 | F | 1 |
| 6 | What is the fundamental principal of the engineer's | 1 | 2 | 5 | 1 |
| | code of ethics? | | | | |
| | a) Maximize profits as any cost b) Prioritize personal interests over public safety. | | | | |
| | b) Prioritize personal interests over public safety a) Hold paramount the safety health and | | | | |
| | c) Hold paramount the safety, health and | | | | |

| | welfare of the public. | | | | |
|----|---|-------|---|---|---|
| | d) Follow ethical guidelines only when | | | | |
| | convenient. | | | | |
| 7 | The international engineering consortium was | 1 | 2 | 5 | 1 |
| | established in | | | | |
| | a) 1922 | | | | |
| | b) 1944 | | | | |
| | c) 1966 | | | | |
| | d) 1988 | | | | |
| 8 | In phase the project is reviewed and revised | 1 | 1 | 5 | 1 |
| | according to any feedback given. | | | | |
| | a) Development | | | | |
| | b) Requirement analysis | | | | |
| | c) Deployment | | | | |
| | d) Brainstorm | | | | |
| 9 | are involved in planning and managing | 1 | 2 | 5 | 1 |
| | projects. | | | | |
| | a) Actors | | | | |
| | b) Teachers | | | | |
| | c) Doctors | | | | |
| 10 | d) Engineers | 4 | 2 | _ | 2 |
| 10 | Point out the professional duty which is not listed in | 1 | 2 | 5 | 2 |
| | fundamental canons. | | | | |
| | a) Hold paramount the safety and healthb) Perform services in all areas of their | | | | |
| | , | | | | |
| | competence c) Issue public statement only in an objectives | | | | |
| | d) Act for each employee | | | | |
| | Part – B | | | | |
| | (1*10 = 10 Marks) | | | | |
| | Instructions: Answer any ONE Que | stion | | | |
| 11 | Differentiate the scientific method and engineering | 10 | 2 | 4 | 1 |
| | design method. | 10 | _ | • | _ |
| | DIFFERENCE BETWEEN SCIENTIFIC | | | | |
| | METHOD AND ENGINEERING DESIGN | | | | |
| | · · | | L | | l |



| | State your question | Define the problem | | |
|----|---|--|--|--|
| | Do background research | Do background research | | |
| | Formulate your hypothesis, identify variables | Specify requirements | | |
| | Design experiment, establish procedure | Create alternative solutions, choose the best one and develop it | | |
| | Test your hypothesis by doing an experiment | Build a prototype | | |
| | Analyze your results and draw conclusions | Test and redesign as necessary | | |
| | Communicate results | Communicate results | | |
| 12 | Figure (3) | | | |
| | Figure (3) | onomic States | | |

| | and treatment. | | | | |
|----|---|----|---|---|---|
| | Inclusion leads to conscious decision making. | | | | |
| | • Inclusive workplaces have better | | | | |
| | psychological safety. | | | | |
| | Diversity and Inclusion help the company | | | | |
| | reach a wider audience and avoid | | | | |
| | discriminatory pitfalls. | | | | |
| | Economics (4) | | | | |
| | • Diversity with inclusion is profitable for the | | | | |
| | business. | | | | |
| | Inclusive organizations promote transparency. | | | | |
| | Teams with higher empathy are better | | | | |
| | equipped to deal with conflict of interests and | | | | |
| | confrontations. | | | | |
| | Diverse and inclusive teams promote a trustworthy | | | | |
| | brand image. | | | | |
| | Part - C | | | | |
| | (1*15 = 15 Marks) | | | | |
| | Instructions: Answer any ONE Que | | ı | | |
| 13 | Priya is a senior software engineer in a | 15 | 2 | 4 | 4 |
| | · | | | | |
| | multinational company who works in a U.S. military | | | | |
| | multinational company who works in a U.S. military project. She has chosen ADDIE model for her | | | | |
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Course Outcome (CO) and Bloom's level (BL) Coverage in Questions CO COVERAGE BL COVERAGE

