

JK Lakshmipat University Jaipur
INSTITUTE OF ENGINEERING AND TECHNOLOGY
Theory Exam-III Examination, April, 2024
System Engineering

Course Code : ME1228

Roll No.....
Time: 2.5 hour Max. Marks: 30

Instructions to students:

Do not write anything other than your roll number on question paper.

Answer any 5.

Assume suitable data wherever required and mention it clearly.

Writing appropriate units, nomenclature, and drawing neat sketches/schematics/ flow chart wherever, required are an integral part of the answer.

- Q.1 In NASA Phase Life cycle, what is the purpose of phase B, and what are the key activities and products involved in defining the project in detail to establish an initial baseline capable of meeting mission needs? **06** (CO1)
- Q.2 Why is effective interface management crucial in project development, and what roles do different types of interfaces play? How does DSM contribute to interface management? **06** (CO3)
- Q. 3 What functions do various reviews fulfill in the system life cycle, and how do they enhance the overall development process? Elaborate on the significance of technical risk management in the system life cycle? **06** (CO4)
- Q. 4 How does verification and validation contribute to the system life cycle? Could you illustrate its significance with an example? **06** (CO2)
- Q. 5 What is Lifecycle Management, and how does it contribute to maximizing the value gained from a system's operation? Provide examples of key activities involved in Lifecycle Management? **06** (CO3)
- Q. 6 Provide an explanation of the V-model and its significance within the system life cycle, including its application and impact on project development?" **06** (CO1)