

Ase (9.1)

TIME-3 hr

Mark-70

1.a) Explain the behavioural model and draw the dataflow diagram of a CASE tool set. [7]

b) Briefly explain the context model with suitable example. [7]

OR

c) Discuss the evolutionary prototyping and its advantages with suitable diagram. [7]

d) Explain the throw-away prototyping and discuss its problems. [7]

2. a) What is repository model and explain its advantages and disadvantages ? [7]

b) Explain the advantages and disadvantages of client-server model. [7]

OR

c) Describe the control model with its two approaches. [7]

d) What is distributed system and explain its type and characteristics? [7]

3. a) Define critical system. Explain its classes and how to protect the system from damage.

[7]

b) Discuss the damages may occur due to external attack in critical system. [7]

OR

c) Briefly explain the safety specification with suitable example. [7]

d) Discuss the critical system validation. [7]

4. a) What is software standard and give reasons why it is important? [7]

b) Describe the process and product quality. [7]

OR

c) Explain the measurement process. [7]

d) Briefly explain the elements of process model. [7]

5. a) What is SEI process capability maturity model and explain its levels ? [7]

b) Explain the logical part of the legacy system. [7]

OR

c) Discuss the different types of software maintenace. [7]

d) Give reasons why source level translation may be necessary. [7]