

5TH SEM. / CS & E/ IT / 2023(W) NEW

Th-3 Software Engineering

Full Marks: 80

Time- 3 Hrs

Answer any five Questions including Q No.1& 2
Figures in the right hand margin indicates marks

1. Answer **All** questions 2 x 10
 - a. Define phase containment error.
 - b. What do you mean by the “99% complete” syndrome in software development?
 - c. What are the different activities of project manager?
 - d. Why Gantt chart is used?
 - e. Define fan-in and fan-out.
 - f. Why SRS is called as black-box specification of the system.
 - g. Define structure analysis.
 - h. Define debugging.
 - i. List different menu used in menu based interface
 - j. Define software reliability

2. Answer **Any Six** Questions 6 x 5
 - a. Discuss about function point metric .
 - b. Briefly discuss the spiral model of software development. Why spiral model is known as a meta model.
 - c. Write characteristics of Good software Engineer.
 - d. What is code inspection? How it is different from code walk through?
 - e. Define DFD. Explain different symbol used in DFD.
 - f. Define SRS. Write about different category of user of SRS document
 - g. Explain team structure with diagram.

3. Discuss about different Empirical Estimation Techniques. 10
4. Define cohesion and coupling. Explain their classification. 10
5. What is testing? Discuss about black box testing with example. 10
6. Discuss about different types of user interface. 10
7. What is prototyping? Under what circumstances it is beneficial to construct a prototype model. Discuss the prototyping mode of software development. 10