

**B.Tech (CSE) (Elective-I) 5th Semester
(G-Scheme) Examination,**

November-2023

SOFTWARE ENGINEERING

Paper-CSE-311-G

Time allowed : 3 hours]

[Maximum marks : 75

Note : Attempt five questions in all, selecting at least one question from each unit. Question no. 1 is compulsory.

1. (a) Define Software Engineering. 6×2.5=15
- (b) Discuss function point metric of size estimation.
- (c) Write short note on Data Dictionary.
- (d) Explain software Re-engineering.
- (e) Differentiate between Alpha and Beta testing.
- (f) Write short note on Reliability.

Unit-I

2. (a) State and explain the Prototyping method of software development along with its advantages and disadvantages. 10
- (b) Discuss the emergence of software engineering. 5

3. (a) Explain the different team structures used for software teams. 5
- (b) Explain in detail the COCOMO - estimation model in detail. 10

Unit-II

4. (a) What do you understand by partitioning ? How it is useful in software development. 8
- (b) Define functional modeling. Draw a DFD for Library Management. 7
5. Write short note on the following : 15
- (a) Abstraction
- (b) Cohesion
- (c) Information hiding

Unit-III

6. (a) Differentiate between White-Box and Black-Box testing techniques of s/w testing.
- (b) What do you understand by equivalence class partitioning, software testing technique ? Explain with example. 15

7. Write short note on the following : 15
- (a) What do you understand by Architectural Design ? How it is done ?
 - (b) Discuss transform flow and transaction flow used for mapping requirements in software architecture.

Unit-IV

8. What do you understand by formal Technical Review ? Explain in detail how review meeting, record keeping and review reporting is done ? 15
9. Write short note on the following :
- (a) CASE and its building blocks 8
 - (b) ISO 9000 quality standard 7