PC-1007/MR

F-3/2050

SOFTWARE ENGINEERING-368
(Semester-6th)

Time : Two Hours] [Maximum Marks : 30

Note : Attempt any *four* questions. All questions carry equal marks.

1. What do you mean by the term 'Software Engineering'? Discuss the evolution of software engineering? Why software is developed with engineering approach nowadays?

2. Discuss the Spiral model of software development in detail giving its merits and demerits.

3. Discuss the following in brief :
(a) Role of metrics and measurement.
(b) Structured information.

4. What do you mean by Software Requirement Specifications (SRS)? What is its need? What are various components of SRS? Discuss in detail.

5. Give the characteristics of a good software design. What causes increased productivity when object oriented paradigm is used?

6. What do you mean by structured programming? Discuss various constructs of structured programming giving examples. Also give the advantages and disadvantages of structured programming.

7. Define term "Modularization". Why a system design with high cohesion and low coupling is desired? Also discuss in brief various types of cohesions.

8. What is software testing? What are various levels of testing? Discuss in detail.

9. (a) What do you mean by Test Driven Development?

(b) What are the merits and demerits of chief programmer team structure?

(c) Write short note on DFD.

(d) What is problem analysis?

(e) What is structured design methodology?

(f) Differentiate error, fault and failure.

(g) What are the advantages of using standard programming styles.