

Roll No. ....

Total Pages : 2

**BT-6/M-20**

**36155**

**SOFTWARE ENGINEERING**

**Paper–IT-304 N**

**Opt. (I)**

Time : Three Hours]

[Maximum Marks : 75

**Note :** Attempt *five* questions in all, selecting at least *one* question from each unit. All questions carry equal marks.

### **UNIT-I**

1. (a) Explain the evolutionary development model for software development. 7  
(b) Explain different types of team structures. 8
2. What do you mean by software project planning ? What are the major constituents of project plan ? Elaborate. 15

### **UNIT-II**

3. What is DFD ? What does level of DFD represent ? Explain DFD with the help of an example. 15
4. (a) What is software design ? How is it different from coding ? 7  
(b) What is meant by the term requirement engineering ? Explain system modelling and simulation. 8

### **UNIT-III**

- 5.** Explain the basic principles of software testing ? Explain Black-box and white-box testing. 15
- 6.** (a) What do you understand by debugging ? What are the various methods of it ? 8
- (b) Write short note on Reverse Engineering. Also explain Re-engineering. 7

### **UNIT-IV**

- 7.** (a) Explain the following :  
(i) Software Reliability.  
(ii) Software Quality Assurance. 8
- (b) Write short note on CASE (Computer Aided Software Engineering) tool. 7
- 8.** Explain the following terms :  
(a) SEI-capability Maturity Model. 8  
(b) ISO 9000 Quality Standards. 7
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