

Registration No :

--	--	--	--	--	--	--	--	--	--

Total Number of Pages : 01

B.Tech
PIT31104

3th Semester Back Examination 2019-20

SOFTWARE ENGINEERING

BRANCH : IT

Max Marks : 100

Time : 3 Hours

Q.CODE : HB532

Answer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and any TWO from Part-III.

The figures in the right hand margin indicate marks.

Part-I

- Q1** **Only Short Answer Type Questions (Answer All-10)** **(2 x 10)**
- a) What is system building?
 - b) What is software evolution process?
 - c) What is test driven development?
 - d) What is software maintenance?
 - e) What is design pattern?
 - f) What is software reuse?
 - g) What is waterfall model?
 - h) What is pair programming?
 - i) What is user testing?
 - j) What is development Testing?

Part-II

- Q2** **Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve)** **(6 x 8)**
- a) Draw a context model for Patient Management System. How the interactions are modeled?
 - b) With the help of a neat state diagram, illustrate the working of a microwave oven.
 - c) What is Model Driven Engineering? State the three types of abstract system models produced.
 - d) Discuss the implementation issues important in software Engineering.
 - e) Explain the four strategic options of legacy management.
 - f) List and explain the factors affecting software pricing.
 - g) What are the fundamental activities of software engineering?
 - h) What is requirement specification? Explain various ways of writing system requirements.
 - i) Explain briefly software engineering ethics.
 - j) What is a suitable block diagram, explain water fall model?
 - k) Explain requirements engineering process with suitable diagram.
 - l) What is software maintenance? State the activities of re-engineering process.

Part-III

- Q3** **Only Long Answer Type Questions (Answer Any Two out of Four)**
- Q3 Define "Program evolution dynamics". Discuss laws for program evolution dynamics. **(16)**
 - Q4 Write the structure of the requirement documents as suggested by IEEE standards. **(16)**
 - Q5 List and explain various COCOMO cost estimation models. **(16)**
 - Q6 With neat diagram, show the software evolution process and explain the "Lehman's Law" concern to system change. **(16)**