Registration No :

B.Tech
PCS3I104

3th Semester Back Examination 2019-20
SOFTWARE ENGINEERING
BRANCH : CSE
Max Marks : 100
Time : 3 Hours
Q.CODE : HB527

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 Software?
 b)   What is pair programming?
 c)   What is user testing?
 d)   What is development Testing?
 e)   What is system building?
 f)   What is soft ware evolution process?
 g)   What is test driven development?
 h)   What is software maintenance?
 i)   What is design pattern?
 j)   What is software reuse?

Part- II

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

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)
Q3   Explain the practices involved in the extreme programming.   **(16)**

Q4   Define "Program evolution dynamics". Discuss laws for program evolution dynamics.   **(16)**

Q5   Write the structure of the requirement documents as suggested by IEEE standards.   **(16)**

Q6   List and explain various COCOMO cost estimation models.   **(16)**