. TCS/TIT-406

420

Even Semester Examination - 2017

B.TECH. (IV SEMESTER)

SOFTWARE ENGINEERING

Time: 02:00 Hours

Max Marks: 50

. Note: Attempt all questions, each question carry equal marks.

- Q1. Attempt any Two parts of the following: (5X2=10)
 - (a) Define Software Engineering. List the impact of Software engineering on developing software.
 - (b) What is prototype? Under what conditions prototyping model is preferred over other models.
 - (c) What do you mean by Project management? Why it is important.
- Q2. Attempt any Two parts of the following: (5X2=10)
 - (a) Why is software requirement specification important? List some non-functional requirement.

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- (b) What do you mean by Software Design? What are the characteristics of a good design?
- (c) How will you improve the software design with High Coupling?
- Q3. Attempt any three parts of the following: (5X3=15)
 - (a) Define Entity, Relationship, Attribute, Cardinality and Primary Key.
 - (b) What is data dictionary? Explain briefly the notation used for describing data dictionary.
 - (c) What is function decomposition diagram?

 Draw a function decomposition diagram to represent the functionality of a Library.
 - (d) What is the difference between a Stub and a Driver.
 - Q4. Attempt any three parts of the following: (5X3=15)
 - (a) Differentiate between Alpha and Beta Testing.
 - (b) Consider the following code-

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```
For(i=1;i<10;i++)
       For (j=1;j<10;j++)
       Sum=i+j;
       Prod=i*j;
       }
       Identify test cases to perform loop Testing.
       Write a note on Capture Playback Tools and Test
(C)
       Case Generators.
       Explain Constructive Cost Models (COCOMO).
(d)
                     ***
```