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TCS-302/TIT-302

B. Tech. (CS/IT) (Third Semester) Mid Semester EXAMINATION, 2017 SOFTWARE ENGINEERING

Time : 1:30 Hours]

[Maximum Marks : 50

Note : (i) This question paper contains two Sections.
(ii) Both Sections are compulsory.

Section—A

1. Fill in the blanks/True-False : (1×5=5 Marks)
 - (a) The ratio for development phase and maintenance phase is roughly :
 - (b) An SRS document normally contains, and
 - (c) Alpha testing is the system testing performed by the
 - (d) Functional requirements addresses maintainability, portability and usability issues.
(True/False)
 - (e) A column in a decision table is called an attribute.
(True/False)

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2. Attempt any *five* parts : (3×5=15 Marks)
- Determine different stages through which a software product undergoes during its lifetime. Elaborate your answer accordingly.
 - State the different problems which a organization will going to face if they do not follow a Software Life Cycle Development model.
 - Identify at least *three* activities undertaken in an Object Oriented Software Design.
 - Mention *three* reasons why Classical Waterfall model is considered impractical and cannot be used for the real time projects.
 - Identify at least *two* activities carried out during each face of a spiral model.
 - What do you understand by the term DFD ? Draw a neat labelled diagram to represent the automated car plant by using DFD.

Section—B

3. Attempt any *two* parts of choice from (a), (b) and (c). (5×2=10 Marks)
- Explain any *ten* myths available in software engineering. Do support your answer by explaining a few lines about each and every myth.

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- Explain the difference between the functional requirement and non-functional requirement.
 - What do you understand by the term prototype ? Explain the prototyping model by giving the suitable diagram with it.
4. Attempt any *two* parts of choice from (a), (b) and (c). (5×2=10 Marks)
- Which model is also known as Meta Model ? Briefly explain the reasons behind why we call it as a meta model.
 - What do you understand by Rational Unified Process ? Explain the architecture of the RUP in detail.
 - Mention the important parts of SRS documents. Briefly elaborate your answer by giving suitable examples.
5. Attempt any *two* parts of choice from (a), (b) and (c). (5×2=10 Marks)
- What do you understand by Decision Tree ? Draw a decision tree of for library membership automation system.
 - Draw a labelled schematic diagram to represent the spiral model for software development. Is the number of loops of the spiral fixed ? If your answer is affirmative,

write down the number of the loops of the spiral. If your answer is negative, explain how the number of loops of the spiral is determined.

- (c) Explain the evolutionary model and give your answer how this model is different from the other model.