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Roll No.

TCS/TIT-302

B. TECH. (CS/IT) (THIRD SEMESTER)

MID SEMESTER EXAMINATION, 2018

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) Context Level Diagram provides highest level of abstraction of any information system. (True/False)

(b) Build & Fix Model is suitable for programming exercises of 4000 LOC (Line of Code). (True/False)

(c) A is a graphical representation of specific decision situations that are used when complex branching occurs in a structured decision process.

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(d) The model is used to describe a process for planning, creating, testing, and deploying an information system and forms the foundation of software development models.

(e) "The application of a systematic, disciplined, quantifiable approach to the development, operation, and maintenance of software" is called

2. Attempt any five parts : (3×5=15 Marks)

(a) Define the term "software engineering". Explain the major differences between software engineering and other traditional engineering.

(b) What is prototype ? Draw the schematic diagram of the prototyping model.

(c) Define the term SDLC. Why is it important to adhere to a life cycle model while developing a large software product ?

(d) Manifesto of Agile Software Development Model.

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(e) Differentiate between Functional and Non-Functional Requirements.

(f) Explain the spiral model of software development. Sketch a neat diagram of spiral model.

Section—B

3. Attempt any two parts of choice from (a), (b) and (c). (5×2=10 Marks)

(a) Differentiate between Incremental model and Iterative model.

(b) Explain Rational Unified Process Modelling.

(c) Discuss the software characteristics, and also discuss software quality attributes.

4. Attempt any two parts of choice from (a), (b) and (c). (5×2=10 Marks)

(a) Explain iterative model.

(b) Explain the Software Myths surrounding Software Engineering and the actual facts.

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(c) What is DFD ? Draw Context Level Diagram and level-I Diagram of Online Air Ticket Booking System.

5. Attempt any *two* parts of choice from (a), (b) and (c). (5×2=10 Marks)

(a) Explain RAD model.

(b) List characteristics of a good SRS document. Write an SRS of online shopping system.

(c) Explain Modern Waterfall Model. Throw light on the disadvantages of the same.