PVP 19

Code: 19IT3403

II B.Tech - II Semester – Regular Examinations – AUGUST 2021

SOFTWARE ENGINEERING PARADIGMS
(INFORMATION TECHNOLOGY)

Duration: 3 hours Max. Marks: 70

Note: 1. This question paper contains two Parts A and B.
2. Part-A contains 5 short answer questions. Each Question carries 2 Marks.
3. Part-B contains 5 essay questions with an internal choice from each unit. Each question carries 12 marks.
4. All parts of Question paper must be answered in one place

PART – A

1. a) List different types of software process models.
   b) How functional requirements helps in software engineering?
   c) Write the importance of Structured design and analysis.
   d) Describe White-box testing in brief.
   e) Define Software Quality.

PART – B

UNIT – I

2. a) State the reality that accompanies the software management myths. 6 M
   b) Describe about unified process. 6 M

OR

3.	a)	Explain software process framework with neat illustration.	6 M
	b)	Explain about waterfall process model.	6 M

UNIT – II

4.	a)	Explain about various tasks in requirement engineering.	6 M
	b)	What is Software Requirement Specification document and its impact in software development.	6 M

OR

5.	a)	Explain various approaches to software design.	6 M
	b)	What are the different characteristics of a good software design?	6 M

UNIT-III

6.	a)	Explain SA/SD Methodology.	6 M
	b)	Describe data flow diagrams (DFD) models.	6 M

OR

7.	a)	Summarize the characteristics of user interface.	6 M
	b)	Explain user interface design methodology.	6 M

UNIT – IV

8.	a)	What is the role of testing in software development?	6 M
	b)	Explain about unit testing with suitable examples.	6 M

OR

9.	a)	Explain white box and black box testing with examples	6 M
	b)	Describe the steps in software documentation.	6 M

UNIT – V

10.	a)	Explain the steps in statistical testing along with its advantages and disadvantages.	6 M
	b)	Describe various quality factors that associate with software quality.	6 M

OR

11.	a)	What are the costs included in software Maintenance?	6 M
	b)	List the issues included in software reuse approach.	6 M