Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code: 54205

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Fourth Semester

Computer Science and Engineering

15UCS405- SOFTWARE ENGINEERING

(Regulation 2015)

Duration: 1:15hrs   Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. Which model can be selected if user is involved in all the phases of SDLC?   CO1-R

    (a) Waterfall Model   (b)Prototyping Model

    (c) RAD Model   (d) both Prototyping Model & RAD Model

2. Which one of the following models is not suitable for accommodating any change?   CO1-R

    (a) Build & Fix Model   (b) Prototyping Model

    (c) RAD Model   (d) Waterfall Model

3. Which one of the following is not a step of requirement engineering?   CO2-U

    (a) elicitation   (b) design   (c) analysis   (d) documentation

4. How many feasibility studies is conducted in Requirement Analysis?   CO2-U

    (a) Two   (b) Three   (c) Four   (d) Five

5. Which of the following describes "Is-a-Relationship"?   CO3-R

    (a) Aggregation   (b) Inheritance   (c) Dependency   (d) All of the mentioned

6. What incorporates data, architectural, interface, and procedural representations of the   software?   CO3-R

    (a) design model   (b) user's model   (c) mental image   (d) system image

7. What is Cyclomatic complexity? CO4-U

(a) Black box testing   (b) White box testing

(c) Sanity testing   (d) Structural testing

8. In which testing level the focus is on customer usage? CO4-U

(a) Alpha Testing   (b) Beta Testing

(c) Validation Testing   (d) Both Alpha and Beta

9. In the Empirical Estimation Technique, Which model is developed by Barry W.Boehm? CO5-U

(a) Putnam model   (b) COCOMO   (c) Both a & b   (d) None of the above

10. The process each manager follows during the life of a project is known as CO5-U

(a) Project Management   (b) Manager life cycle

(c) Project Management Life Cycle   (d) All the above

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11.	What is CMMI? Explain.	CO1-U	(8)
12.	What is Requirement engineering? State its process and explain requirement elicitation problem.	CO2 -U	(8)
13.	What are the characteristics of a good design? Describe different types of coupling and cohesion. How design evaluation is performed?	CO3 -U	(8)
14.	Discuss the differences between black box and white box testing models. Discuss how these testing models may be used together to test a program schedule.	CO4 -U	(8)
15.	Write short notes on	CO5 -U	(8)

 (i) COCOMO estimation criteria.