Reg. No. : ☐☐☐☐☐☐☐☐☐☐

Question Paper Code: 33206

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

Third Semester

Computer Science and Engineering

01UCS306 - SOFTWARE ENGINEERING

(Regulation 2013)

Duration: 1.15 hrs   Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. The cost of software engineering includes approximately _____ of development costs and _____ of testing costs.

   (a) 50% and 50%   (b) 60% and 40%
   (c) 80% and 20%   (d) 40% and 60%

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

   (a) Build AND Fix Model   (b) Prototyping Model
   (c) RAD Model   (d) Waterfall Model

3. Which is not a step of requirement engineering?

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

4. What are the types of requirements?

   (a) Availability   (b) Reliability
   (c) Usability   (d) none of these

5. Structured charts are a product of

   (a) Requirements gathering   (b) Requirements analysis
   (c) Design   (d) Coding

6. The desired level of coupling is

   (a) Control coupling   (b) Common coupling
   (c) Data coupling   (d) No coupling

7. The main purpose of integration testing is to find

   (a) Design errors   (b) Analysis errors
   (c) Procedure errors   (d) Interface errors

8. For a function of two variables, boundary value analysis yields

   (a) 4n +3 test cases   (b) n + 4 test cases
      (c) 4n +1 test cases   (d) None of the above

9. The problem that threatens the success of a project but which has not yet happened is a

   (a) Bug   (b) Error   (c) Risk   (d) Failure

10. Which is not a size metric?

    (a) LOC   (b) Program length
    (c) Function count   (d) Cyclomatic complexity

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11.   Discuss system engineering hierarchy and briefly explain each level in the hierarchy.
                                                                                    (8)

12.   What is Requirement Engineering? State its process and explain requirement elicitation problem.   (8)

13.   Enumerate data design concepts and principles in detail.   (8)

14.   Explain about basis path testing and loop testing with suitable example.   (8)

15.   What is COCOMO –II model? Explain in detail.   (8)

33206