Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : X 60381

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020

Fifth Semester

Computer Science and Engineering

CS 2301/CS 51/10144 CS 502 – SOFTWARE ENGINEERING

(Regulations 2008/2010)

(Common to PTCS 2301 – Software Engineering for B. E. (Part-Time)

Fifth Semester- CSE – Regulations 2009)

Time : Three Hours   Maximum : 100 Marks

Answer ALL questions

PART – A   (10×2=20 Marks)

1. Differentiate between verification and validation.

2. State the advantages and disadvantages of the water fall model.

3. Distinguish between the terms inception, elicitation and elaboration with reference to requirements.

4. "An SRS is traceable". Comment.

5. List out design methods.

6. Define data acquisition.

7. What is black box testing ?

8. Write down the generic characteristics of software testing.

9. What is boundary condition testing ?

10. What is meant by software project scheduling ?

PART – B   (5×16=80 Marks)

11. a) Describe waterfall, incremental, iterative water fall model and spiral model based SLCS and compare.

(OR)

b) How the software products are classified ? Discuss briefly about business process engineering and product engineering.

12. a) Explain prototyping in the software process. **(16)**

(OR)

 b) Define data dictionary. How the data dictionary is used ? Explain in detail. **(16)**

13. a) i) Explain the salient features of data acquisition systems. **(8)**

   ii) Explain the various architectural styles in brief. **(8)**

(OR)

 b) i) Explain the generic architecture of a monitoring and control system. **(9)**

   ii) Explain the concept of modularity and its importance in design of software. **(7)**

14. a) Explain the integration testing in detail. **(16)**

(OR)

 b) i) Write note on unit testing. **(8)**

   ii) Explain the categories of debugging approaches. **(8)**

15. a) i) Explain the COCOMO model for estimation. **(8)**

   ii) State ZIPF's law. **(2)**

   iii) What is the purpose of Delphi method ? State advantages and disadvantages of the method. **(6)**

(OR)

 b) What is Software Configuration Management ? Explain various aspects of Configuration Management. **(16)**

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