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Question Paper Code : X 10318

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020/
APRIL/MAY 2021

Fourth/Fifth Semester

Computer Science and Engineering

CS 8494 – SOFTWARE ENGINEERING

(Common to Computer and Communication Engineering /Information Technology)
(Regulations 2017)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. List out the goals of software engineering.
2. What are the various categories of software ?
3. List out the characteristics of good SRS.
4. Name any two requirement of elicitation techniques.
5. Differentiate internal and external design.
6. List out the various types of cohesion and coupling.
7. Mention the software testability checklist.
8. How black box testing is differing from white box testing ?
9. What are the processes of risk management ?
10. List out the various steps in planning process.

PART – B

(5×13=65 Marks)

11. a) Compare and contrast waterfall model, spiral model and iterative model.

(OR)

- b) Define Agile Programming. Explain the 12 practices of extreme programming.



12. a) With suitable example explain the functional and non-functional requirements.

(OR)

b) Describe how Software requirements are documented. State the importance of documentation.

13. a) What are the different types of architectural styles exist for software and explain any software architecture in detail ?

(OR)

b) Explain the core activities involved in User Interface design process with necessary block diagram.

14. a) Explain equivalence partitioning technique with suitable example.

(OR)

b) Compare and contrast reverse engineering, forward engineering and reengineering.

15. a) Explain how effort and cost estimation are determined using cocano model.

(OR)

b) Explain the various steps involved in risk management.

PART – C

(1×15=15 Marks)

16. a) Assume that you are developing a online railway reservation system. Prepare the Software Requirement Specification (SRS) document for the system.

(OR)

b) For online railway reservation system, draw the Data Flow Diagram (DFD) upto level 4.
