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Question Paper Code: 2435265
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B.E. / B.Tech. DEGREE EXAMINATIONS, NOV/ DEC 2024

Fifth Semester

Artificial Intelligence and Data Science

U20AI503 / U20IT502 – SOFTWARE ENGINEERING

(Regulation 2020)

(Common to Information Technology)

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions

PART – A

(10 x 2 = 20 Marks)

1. Define software engineering.
2. What do you mean by system engineering?
3. Differentiate functional and non-functional requirements.
4. Define software prototyping.
5. Define software architecture.
6. What do you mean by risk management?
7. Differentiate validation and verification.
8. Define regression testing.
9. Define software project management.
10. Define software maintenance.

PART – B

(5 x 16 = 80 Marks)

11. (a) Compare and analyze any three life cycle models of software process. (16)

(OR)

(b) Examine and explain agile software project management model. (16)

12. (a) Discuss the requirements of engineering process. (16)

(OR)

(b) Discuss the rapid prototyping techniques. (16)

13. (a) Explain architectural design in detail. (16)

(OR)

(b) Explain SCM in detail. (16)

14. (a) Explain black box testing in detail. (16)

(OR)

(b) Explain software testing strategies. (16)

15. (a) Discuss the various software cost estimation techniques. (16)

(OR)

(b) Discuss Earned Value Analysis in detail. (16)

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