S.No. 3246

16 SMBECA 1:2/
16 SMBECS 1:1/
16 SMBEIT 1:1

(For candidates admitted from 2016–2021 batch)

B.Sc. / B.C.A. DEGREE EXAMINATION,
NOVEMBER 2023.

Part III — Computer Applications / Computer Science / Information Technology — Major Based Elective

SOFTWARE ENGINEERING

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20)

Answer ALL questions.

1. List down few advantages of linear sequential model.
2. Define Application software.
3. What is analysis modeling?
4. List out the characteristics of a good design.
5. Define Encapsulation.
6. Define Usability
7. List down the advantages of coding convention.

8. Define Software metrics.

9. Define Web engineering.

10. Define OOSD.

SECTION B — (5 × 5 = 25)

Answer ALL questions, choosing either (a) or (b) in each.

11. (a) What are the phases of software development? Explain in detail.

Or

(b) Describe the focus group technique of eliciting requirements in detail.

12. (a) What is state transition diagram? Explain with example.

Or

(b) What is coupling? Discuss the different types of coupling.

13. (a) Explain the sequence diagram with an example.

Or

(b) Discuss four user interface elements.

14. (a) Discuss resource metrics.

Or

(b) Discuss the work Breakdown structure and its uses.

15. (a) Discuss the principles of web design.

Or

(b) Write notes on following:

(i) Web 2.0

(ii) Cloud Computing

SECTION C — (3 × 10 = 30)

Answer any THREE questions.

16. Discuss spiral model in detail.

17. Discuss data modeling with ER diagram as example.

18. Explain in detail about design frameworks.

19. With a suitable example, explain SCR life cycle in detail.

20. Draw the layers of web application and explain.

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