Name.....

C 26280

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Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2017

Software Development

GEC 4SE 11—SOFTWARE ENGINEERING PRINCIPLES

Time : Three Hours

Maximum : 80 Marks

Section A

Answer **all** questions. Each question carries 1 mark.

1. Software engineering approach is used to achieve —

2. RAD stands for ———.

3. ——— are strong medium to collect requirements.

- 4. Requirement elicitation means ———
 - (a) Gathering of requirements. (b) Capturing of Requirements.
 - (c) Understanding of requirements. (d) All of the above.

5. Which tool is used for structured designing?

- (a) Program flowchart. (b) Structure chart.
- (c) DFD. (d) Module.

6. Which is not a characteristic of a good SRS ?

- (a) Correct. (b) Complete.
- (c) Consistent. (d) Brief.

7. In cause effect graphing ——— is the input conditions and ——— output conditions.

- 8. Alpha testing is done by ———.
 - (a) Customer. (b) Tester.
 - (c) Developer. (d) All of these.
- 9. CASE stands for ———.

10. What enables a software engineer to define screen layout rapidly for interactive applications ?

 $(10 \times 1 = 10 \text{ marks})$

Turn over

Section B

Answer any **eight** questions. Each question carries 2 marks.

- 11. Explain the components of software.
- 12. What do you mean by Win-Win model?
- 13. What is an object point?
- 14. What is the use of decision tables?
- 15. Explain the symbols used in DFD.
- 16. Briefly explain the basic concept of software design.
- 17. Write a short note on structure charts.
- 18. What are the benefits of conducting smoke testing?
- 19. List out various methods for finding Cyclomatic complexity.
- 20. What is PERT?
- 21. What is COCOMO model?
- 22. What are the parameters used for measuring quality?

 $(8 \times 2 = 16 \text{ marks})$

Section C

Answer any **six** questions. Each question carries 4 marks.

- 23. What are the characteristics of the software?
- 24. What is evolutionary development model?
- 25. What do you mean by formal technical review?
- 26. Draw DFD of your college management.
- 27. What is coupling ? What are the various types of coupling ?
- 28. What are the requirements engineering process functions?
- 29. Why testing is important with respect to software?
- 30. Explain software re-engineering.
- 31. How the CASE tools are classified ? Explain software cost estimation.

 $(6 \times 4 = 24 \text{ marks})$

Section D

Answer any **two** questions. Each question carries 15 marks.

- 32. Explain IEEE standard structure of SRS. Explain validation and verification Software Engineering.
- 33. Explain the various data design principles and architectural styles. Describe the transform and transaction mapping processes.
- 34. Explain Black Box and White Box testing. Give the merits and demerits of both approaches.
- 35. What is software reliability ? How is it different from software availability ? Explain one reliability model.

 $(2 \times 15 = 30 \text{ marks})$