



K17U 1741

Reg. No. :

Name :

V Semester B.C.A. Degree (CBCSS – Reg./Sup./Imp.)

Examination, November 2017

(2014 Admn. Onwards)

Core Course

5B13 BCA : SOFTWARE ENGINEERING

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. **One word** answer. (8×0.5=4)
- a) To produce good quality product, process should be _____
 - b) RAD is _____
 - c) FAST stands for _____
 - d) A good design will have _____ Coupling (Low/High)
 - e) For a function of n variables, boundary value analysis yields _____ test cases.
 - f) A node with indegree=0 and outdegree ≠ 0 is called _____
 - g) A design notation used for representing function oriented design is _____
 - h) The context diagram of a DFD is also known as _____

SECTION – B

Write short notes on **any seven** of the following questions : (7×2=14)

- 2. What is software engineering ? What are the components of software ?
- 3. Differentiate between product and process.
- 4. Write short note on "Status of development team" for the selection of a life cycle model.

P.T.O.



5. Differentiate between conceptual and technical design.
6. What are structure charts ?
7. Differentiate verification and validation.
8. What is the importance of path testing during structural testing ?
9. What is system testing ?
10. What is the objective of using DFD ?
11. List the points of a simplified design process.

SECTION – C

Answer **any four** of the following questions.

(4×3=12)

12. Explain the major application area of Software with suitable examples.
13. What are the advantages of using waterfall model ?
14. Which are the crucial process steps of requirement engineering ?
15. What are DFDs ? Explain the various symbols used in DFDs.
16. Explain the different types of coupling.
17. Explain the different steps in feasibility study.

SECTION – D

Write an essay on **any two** of the following questions.

(2×5=10)

18. Define software life cycle. Explain different increment process models.
 19. Explain the various strategies for performing system design.
 20. Explain : a) Dynamic modeling b) Functional modeling.
 21. Explain different levels of software testing.
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