



K20U 1499

Reg. No. :

Name :

V Semester B.Sc. Degree (CBCSS-Reg./Sup./Imp.)
Examination, November 2020
(2014 Admn. Onwards)
CORE COURSE IN COMPUTER SCIENCE
5B08CSC – Software Engineering

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. **One** word answer. **(8×0.5=4)**
- a) SDD stands for _____
 - b) Unary relationship is also known as _____
 - c) _____ is the single attribute of a software that allows a program to be intellectually manageable.
 - d) _____ testing refers to test the software as a complete product.
 - e) _____ promotes reuse by defining common operation of subclass in a superclass.
 - f) ADT stands for _____
 - g) _____ is a sequence of events that occur in a particular execution of the system.
 - h) _____ store information about all data items defined in DFD's.

SECTION – B

Write short note on **any seven** of the following questions.

(7×2=14)

- 2. What is process matrices ?
- 3. Which are the two classification of software products ?
- 4. Define reliability and portability.
- 5. What is meant by ternary and binary relationship ?
- 6. Why design is important ?
- 7. What are the objectives of design ?



K20U 1499

8. What is the difference between strict inheritance and non strict inheritance ?
9. Write a note on polymorphism.
10. Define acceptance testing.
11. Define unit testing and integration testing.

SECTION – C

(4×3=12)

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

12. What are the characteristics of a software ?
13. Explain ER diagram with an example.
14. Explain data coupling, stamp coupling and control coupling.
15. What is aggregation ? Give an example.
16. Explain logical cohesion and coincidental cohesion.
17. Discuss structural testing. How is it different from functional testing ?

SECTION – D

(2×5=10)

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

18. Discuss waterfall model in detail.
19. Explain various steps of requirement analysis.
20. Write a note on function oriented design.
21. Explain validation testing and mutation testing in detail.