Reg. No. : ....

Name : ....

V Semester B.Sc. Degree (CBCSS – Sup./Imp.)
Examination, November 2021
(2015-'18 Admns)
CORE COURSE IN COMPUTER SCIENCE
5B08 CSC : Software Engineering

Time : 3 Hours   Max. Marks : 40

SECTION – A

1. One word answer.   **(8×0.5=4)**

    a) Software _____ wear out.

    b) Any _____ is a subset of software.

    c) SDLC stands for _____

    d) A requirement specification must treat the system as a _____ box.

    e) DFD stands for _____

    f) _____ is the measure of the degree of interdependence between modules.

    g) In object oriented system, each _____ belongs to a class.

    h) _____ testing improves the quality of software product in terms of functional capabilities and quality attributes.

SECTION – B

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

2. Define software engineering.

3. What are the advantages of spiral model ?

4. Name the characteristics of selection of a life cycle model.

5. Compare functional and non-functional requirement.

6. Define feasibility study.

7. What is E-R diagram ?

8. What is function oriented design ?

9. What is abstraction in object oriented design ?

10. What is inheritance ?

11. What is dynamic white box testing ?

SECTION – C

Answer **any four** of the following questions.   (4×3=12)

12. What are the components of the software system ?

13. What are the four phases in the RAD model ?

14. What are the symbols used in DFD ?

15. Discuss the objectives of software design.

16. Write a note on module coupling.

17. What is unit testing ?

SECTION – D

Write an essay on **any two** of the following questions.   (2×5=10)

18. Describe Waterfall model in detail.

19. What are the crucial process steps of requirement engineering ? Discuss with the help of diagram.

20. Discuss the three phases of object oriented design methodology.

21. List various kinds of functional testing. Describe any one in detail.

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