K20U 1601

Reg. No. : ....

Name : ....

V Semester B.C.A. Degree (CBCSS – Reg./Sup./Imp.)
Examination, November 2020
(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) _____ encompasses a process, set of methods and tools to build a software.

   b) CASE stands for

   c) Name the traceability table which indicates how requirements are related to one another.

   d) _____ defines the maximum number of objects that can participate in a relationship.

   e) In a data centered approach, _____ is frequently accessed by components to manipulate data.

   f) _____ defines a quantitative measure of the degree to which a system or processes possesses a given attribute.

   g) Glass box testing is a synonym for _____ testing.

   h) _____ cohesion occurs when a module performs only one computation and returns the result.

SECTION – B

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

2. Define software.

3. What is a work product ?

4. Write any two scenarios where RAD cannot be applied to.

P.T.O.

5. Define requirement engineering.

6. What is the use of UML activity diagram ?

7. What is the purpose of architectural context diagram ?

8. Explain the divide and conquer rule in function-oriented design.

9. What is PDL ?

10. What is a test case ?

11. What is regression testing ?

SECTION – C

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

12. Elaborate on characteristics of software.

13. What is the concept of an incremental model ?

14. What is the role of Data Flow diagram in requirement analysis ?

15. What is a use case ? What is the role of actors in use cases ?

16. Enumerate the effects of coupling in modules.

17. What is path testing ?

SECTION – D

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

18. Explain waterfall model in detail.

19. Elaborate on the seven distinct functions of requirement engineering.

20. Explain transform mapping of a DFD.

21. What is black box testing ? Explain any two approaches used in black box testing.

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