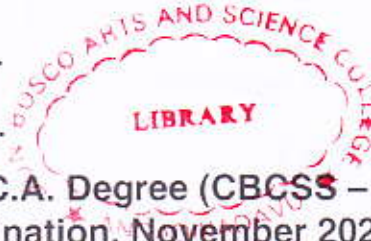




K21U 1601

Reg. No. :

Name :



V Semester B.C.A. Degree (CBCSS – Sup./Imp.)
Examination, November 2021
(2015 – '18 Admns)
Core Course
5B13BCA : SOFTWARE ENGINEERING

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. **One word answer.** (8×0.5=4)
- a) _____ is a set of programs to build a product to achieve a specific task.
 - b) RAD belongs to _____ category of process models.
 - c) _____ builds a bridge between design and construct.
 - d) Name the diagram to represent the events and state of a system.
 - e) The modality of a relationship, if the relationship is optional.
 - a) 0
 - b) 1
 - c) 2
 - d) Any value greater than 1
 - f) Name the basic building block in object oriented system.
 - g) In unit testing, _____ refers to the subordinate modules of the components to be tested.
 - h) Name any one white box testing technique.

SECTION – B

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

- 2. What is a software process ?
- 3. Write any two advantages of waterfall model.
- 4. What is an entity-relationship diagram ?
- 5. What is quality function deployment ?

P.T.O.



6. What does a context diagram represent ?
7. What is open-closed principle ?
8. What is a data object ?
9. How is a sequence diagram different from state diagram ?
10. When is smoke testing used ?
11. What is beta testing ?

SECTION – C

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

(4×3=12)

12. Explain about SE and its layers.
13. What are the disadvantages of waterfall model ?
14. Differentiate normal requirements, expected requirements, exciting requirements.
15. What are the different traceability tables used in requirements management ?
16. What are the different attributes of quality ?
17. What are interface design elements ? What are its components ?

SECTION – D

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

(2×5=10)

18. Compare and contrast prototyping with spiral model.
 19. Explain the following design concepts.
 - a) Abstraction
 - b) Information hiding
 - c) Modularity.
 20. Explain coupling and cohesion in modular design.
 21. What is integration testing ? Explain in detail.
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