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[Total No. of Printed Pages-3

[CB-BA521-B/CB-BS539-B/CB-BS525-B]

AT THE END OF FIFTH SEMESTER (CBCS PATTERN) DEGREE EXAMINATIONS

COMPUTER APPLICATIONS - V(B)

SOFTWARE ENGINEERING

(Common For B.A.(CA)/B.Sc.(CS)/B.Sc.(CA))

(From The Admitted Batch of 2015-2016)

Time : 3 Hours **Maximum : 75 Marks**

SECTION - A

I. Answer any **Five** questions. **(5×5=25)**

1. Briefly explain about linear sequential model.
2. Explain requirement elicitation and analysis.
3. Explain various decomposition techniques.
4. How a user interface design is evaluates?
5. Explain about software quality merits.
6. Explain the merits of software quality.
7. Explain about problems and solutions of requirements.
8. Explain function-oriented design.

SECTION - B

II. Answer **All** the questions. **(5×10=50)**

9. a) Explain about Agile process model. Also explain its merits and limitations.

(OR)

b) Explain about system development life cycle.

10. a) What is requirement engineering? Explain various Requirement engineering tasks.

(OR)

b) Explain about software requirements analysis.

11. a) What is software architecture? Why it is so important? Explain structural partitioning.

(OR)

b) What is coupling? Explain various types of coupling.

12. a) What are the steps used in user interface analysis? Write about user interface design models and design process.

(OR)

b) Explain Human factors and Human computer interface Design.

13. a) Explain software reverse and Re-engineering.

(OR)

b) Explain Black Box and White Box testing.

[21-BS225]

AT THE END OF SECOND SEMESTER (CBCS PATTERN) DEGREE EXAMINATIONS

DATA STRUCTURES USING C

COMPUTER SCIENCE - II

UG PROGRAM (4 YEARS HONORS)

(w.e.f. Admitted Batch 2020-21)

Time : 3 Hours **Maximum : 75 Marks**

SECTION - A

I. Answer any **Five** questions. (5×5=25)

1. What is ADT? What are the advantages of ADT?
2. What are the applications of Linked List?
3. Explain how stack is helpful in recursive function calls.
4. Write different properties of Binary tree.
5. How to find minimum and maximum element in BST?
6. Explain different approaches to designing an Algorithm.

7. Write about different types of queues.

8. Write different applications of Graph.

SECTION - B

II. Answer **All** the questions. **(5×10=50)**

9. a) Write about Refinement stages.

(OR)

b) Explain various operations on arrays.

10. a) Explain about Linear and Non - Linear data structures.

(OR)

b) What is linked list? Explain different types of linked lists.

11. a) What is stack? Explain different implementations of stack.

(OR)

b) What is circular queue? Write algorithms for insertion and deletion operations.

12. a) What is Tree? Explain different types of trees.

(OR)

b) What is BST? Explain different operations of BST.

13. a) What is searching? Explain different types of searching techniques.

(OR)

b) Explain different Graph traversal algorithms with example.
