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B.Sc. (Com. Science) Examination, June - 2021

System Analysis and Design (BCS-601)

Time: 1½ Hours] [Maximum Marks: 75

Note: Attempt all Sections as per instructions.

Section-A

(Very Short Answer Type Questions)

Note: Attempt any **two** questions from Question 1 to 5. Each question carries 7.5 marks. 2×7.5=15

 Consider the relation R (A,B,C,D,E). With functional dependency

> $A \rightarrow BC$, $CD \rightarrow E$, $B \rightarrow D$, $E \rightarrow A$ Find all possible candidate keys in above

relation R.

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Define object oriented meaning, and Encapsulation with example.

 Give a statement in favour of using spiral model compare to waterfall model, and using waterfall model compare to spiral model.

What is E-commerce, give some applications of same.

5. Describe the importance of Software Engineering? What should be steps taken under the process of developing a Software system.

Section-B

(Short Answer Type Questions)

Note: Attempt any **one** question, from 6 to 8. Each question carries 15 marks.

 $1 \times 15 = 15$

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Discuss Porter's value chain model in details.

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 - What is Requirement analysis? Why it is important? What are the elements of structured analysis and design.
 - 8. Explain the difference between functional non-functional а and requirements.

Section-C

(Detailed Answer Type Questions)

Note: Attempt any two questions from question 9 to 13. Each question $2 \times 22.5 = 45$ carries 22.5 marks.

- Elaborate following terms 9.
 - (1) Class diagram,
 - Activity diagram (2)
 - (3)Component diagram
 - Deployment diagram
 - class Draw Sequence diagram. diagram for diagram & Activity Telephone call.

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- Define following terms Data Modeling, ER diagram, DFD, and design a Level zero, level one DFD and ER diagram for library management system.
- 11. What do you understand by Software and Software Development life cycle (SDLC) Compare Waterfall, Iterative, Spiral, and prototype models.
- DBMS? database, 12. What is How convetional data storing method is not efficient today? Define Normalization, Need of Normalization in DBMS. What are different form of normalisation, explain in brief. https://www.ccsustudy.com

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13. Today E-commerce is widely used. Give Scope of E-commerce, Trade cycle in E-commerce. What competitive strategy is followed in E-Commerce along with Competitive advantage.

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