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BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)
SPECIALIZATION IN CYBER SECURITY (CS)
EXAMINATION : DECEMBER/JANUARY- 2023-24
SEMESTER – II

Sub: Structured System Analysis & Design
(BCA-243-18 /BCA-243-20/ BCA-CS-243-20)

Date : 03/01/2024

Total Marks : 60

Time: 2.00 pm TO 4.30 pm

Instructions:

1. All questions are compulsory unless and otherwise stated.
2. Bold figures to the right of every question are the maximum marks for that question.
3. Candidates are advised to attempt questions in order.
4. Answers written illegibly are likely to be marked zero.
5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
6. Draw neat and labeled diagrams wherever necessary.

Q.1. Fill in the blanks.

(05)

1. In _____ Box, it is difficult to understand how the transformation of input to output takes place

a) Black	b) White
c) Middle	d) Outer
2. TPS stands for _____ processing system

a) Transfer	b) Transaction
c) Typical	d) Topics
3. Feasibility study is useful to evaluate the cost and _____ of the system requested

a) deductions	b) loss
c) allowances	d) benefit
4. System Analyst is not a mere programmer of system but more like a _____

a) manager	b) operator
c) accountant	d) helper
5. In _____ model the process is structured as cascade of phases

a) Spiral	b) Waterfall
c) Prototype	d) RAD

Q.2. State True/False.

(05)

1. The word system is derived from the Greek word "Systema"
2. DSS stands for Difficulty support system
3. Motivation is one of the technical skill
4. Information regarding income tax returns comes under statutory information
5. RAD stands for Random Application Development model

Q.3. Answer the following. (Solve any 5)

(10)

1. What is system security? Which are different levels of it
2. Write a note on Software Suppliers

3. Which are different types of Outputs
4. What is Extended Entry Decision Table?
5. List out functions of System Analyst
6. Differentiate between Structured and Unstructured Interview

Q. 4. Answer the following in detail. (Solve any 6) (30)

1. Write a note on Software Project Management
2. Write a note on Testing process
3. Explain with diagram the concept of Decision Tree
4. What is Normalization. Why is it necessary?
5. Explain different fact-finding tools and techniques
6. Write a note on Spiral Model
7. Draw and explain with the help of Pyramid --Different types of Information required by MIS organization

Q. 5. Answer the following in detail. (Solve any 1) (10)

1. Explain concept of Data Flow Diagram (DFD) in detail
 2. Explain Entity Relationship Model(ER Model)
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