TILAK MAHARASHTRA VIDYAPEETH, PUNE
BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)
SPECIALIZATION IN CYBER SECURITY (CS)
EXAMINATION : JUNE - 2022
SEMESTER - II
Sub: Structured System Analysis & Design
(BCA –243-18/BCA-243-20/BCA-CS-243-20)

Date : 23/06/2022   **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 labelled diagrams wherever necessary.*

Q.1.   **Fill in the blanks.**   **(5)**

1.   _____ system is an orderly arrangement of independent ideas
   a) Conceptual   b) Deterministic
   c) Artificial   d) Physical

2.   _____Feasibility focuses on the existing computer hardware, software and personnel
   a) Economic   b) Technical
   c) Operational   d) Strategic

3.   _____type of information is useful to take short range decisions to run the business efficiently
   a) Statutory   b) Operational
   c) Tactical   d) Strategic

4.   In Entity Relationship Diagram _____represents an attribute
   a) Square   b) Ellipse
   c) Diamond   d) Line

5.   _____Security is protection from fire ,flood ,earthquakes.
   a) Physical   b) Human
   c) Logical   d) Database System

Q.2.   **State True/False.**   **(5)**

1.   System elements are Input ,processor, output

2.   TPS stands for Terminating process system

3.   Basic objective of Testing is to find the errors

4.   RAD stands for Random Application Development Model

5.   Entity set is a set of entities of same kind

Q.3. **Answer the following. (Solve any 5)** (10)

1. State the definition of PROJECT

2. State the definition of MISU

3. What do you mean by Quality Assurance

4. What is Structured English

5. Explain FDD

6. Explain the concept of System Analyst

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

1. Explain different levels of Testing

2. Explain the concept of Decision Table along with its types

3. Write a detailed note on Normalization

4. What is DFD? Explain.

5. Explain multifunctional role of System Analyst

6. Write detail note on System Analysis

7. Explain different types of System

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

1. Explain Project Management in detail

2. Define System and Explain its characteristics

_____