

BACHELOR OF COMPUTER APPLICATION**(BCA Part – III) Examination, 2022****(Three -Year Scheme)****(10+2+3)****Paper-II****(SYSTEM DESIGN CONCEPTS)**

Time Allowed : 3 Hours

Maximum Marks : 100

Note : (1) Theory paper shall contain three parts. All questions are compulsory.

- **Part – 1** (Very short answer) consists **10** questions of **two** marks each with **two** questions from each unit. Maximum limit for each question is up to **40** words.
 - **Part – 2** (Short answer) consists **5** questions of **four** marks each with **one** question from each unit. Maximum limit for each question is up to **80** words.
 - **Part – 3** (Long answer) consists **5** questions of **twelve** marks each with **one** question from each unit with internal choice.
- (2) No supplementary answer-book will be given to any candidate. Hence the candidates should write the answer precisely in the main answer book only.
- (3) All the parts of one question should be answered at one place in the answer-book. One complete question should not be answered at different places in the answer-book.



PART - 1

1. (i) What is Function oriented system development approach ?
(ii) What are the benefits of prototyping ?
(iii) What is user interface evaluation ?
(iv) Define Entities.
(v) What do you understand by UNIT testing ?
(vi) What is the importance of documentation in System Implementation ?
(vii) Define s/w Sizing.
(viii) Define procedural design.
(ix) Explain components of MIS.
(x) Differentiate Formal Vs Informal systems.

PART - 2

2. (i) Explain different types of system development process.
(ii) Explain Decision trees.
(iii) Explain validation testing.
(iv) Describe object oriented concepts in s/w Designing.
(v) Explain pitfalls in MIS Development.

PART - 3

3. Explain Spiral model with example.

OR

Describe feasibility studies in detail.

4. Explain DFD with example.

OR

Explain ER diagram with example.

5. What is the difference between black & white box testing ?

OR

Write the process of System Implementation in detail.

6. Explain COCOMO model.

OR

Explain objectives, principles and concept of s/w Design.

7. Explain MIS framework.

OR

Explain analysis and design of Information system.

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