"Do not write anything on question-paper except Roll Number, otherwise it shall be deemed as an act of indulging in unfair means and action shall be taken as per rules."

Roll No.

B.C.A. (III)

1735

Sys. Anal. and Desi.

B.C.A. Part-III EXAMINATION - 2022 Paper - V

BCA 305 - System Analysis and Design

Time Allowed: Three Hours

Maximum Marks: 80

- **Note:** 1. Question No. 1 is Compulsory. Attempt any four from the remaining questions.
 - 2. All questions carry equal marks.
- 1. (i) Differentiate between technical and operational feasibility of a project.
 - (ii) Give one example each for strategic and operational decisions.
 - (iii) What is the purpose of Gantt Chart?

P.T.O.

1735	/ 1200)/3 (2)	Contd	1735
5.	(a)	What are the security issues in development? How does an organization its database from security concerns?	system prevent	
	(b)	Describe the operations and user docume	entation.	
4.	(a)	Describe the major considerations for planning and control for system success.	and control for system success.	
	(b)	Discuss different types of software testing	ng.	
3.	(a)	Explain cost and benefit analysis of a new How cost/benefit analysis plays an impoin SDLC?	system?	0.
	(b)	Explain various types of feasibility studie analyst should consider.	es that the	8.
2.	(a)	What is system? Explain characteristics an system.	nd types of	
	(viii)) Differentiate between verification and v	alidation.	7.
	(vii)	What is the main difference between and design?	alysis and	
	(vi)	Explain decision tree.		6.
	(v)	What is the significance of data dictionary	?	
	(iv) What do you mean by quality assurance?			

- (b) List and illustrate the primary uses and elements of a decision table.
- 6. (a) Summarize the factors to be considered in forms design.
 - (b) Explain different types of coupling and cohesion.
- 7. (a) Briefly describe the Waterfall model of software life cycle with the help of a suitable diagram.
 - (b) Draw ER diagram for a student information system for a university. Explain the concept of cardinality through it.
- 8. Write short notes on the following:
 - (a) Programming specifications
 - (b) Software maintenance
 - (c) Risk analysis in system security
 - (d) System analysis standards.