This question	paper	contains	2	printed	pages.
---------------	-------	----------	---	---------	--------

B.C	!.A.	(Par	rt-III)
<b></b> • €	·	u a	L U-X - X - X /

Sys. Desi. Con.

Roll No.

302

## B.C.A. (Part-III) EXAMINATION, 2020

(Faculty of Science)

(Three-Year Scheme of 10+2+3 Pattern)

## SYSTEM DESIGN CONCEPTS

Time Allowed: Three Hours

Maximum Marks: 100

Answer of all the questions (Short answer as well as descriptive) are to be given in the main answer-book only. Answers of short answer type questions must be given in sequential order. Similarly all the parts of one question of descriptive part should be answered at one place in the answer-book. One complete question should not be answered at different places in the answer-book.

Write your roll number on question paper before start writing answers of questions.

Question paper consists of three Parts.

All three parts are compulsory

PART - I: (Very Short Answer) consists of 10 questions of 2 marks each. Maximum limit for each question is upto 40 words.

PART - II: (Short Answer) consists of 5 questions of 4 marks each. Maximum limit for each question is upto 80 words.

PART - III: (Long Answer) consists of 5 questions of 12 marks each with internal choice.

PART - I

1. (a) What are the advantages of Waterfall model?

10x2=20

- (b) What is feasiblely study?
- (c) What is Entity-relationship diagram?
- (d) What is DFD?
- (e) Differentiate between Verification and Validation.
- (f) What is Integration testing?
- (g) What is Cost Estimation Model?
- (h) What is the objective of Software Design?
- (i) What is Management Information System?
- (j) What is Pitfalls in MIS development?

P.T.O.

## PART - II

2.	(a)	What are the benefits of prototyping?		
	<b>(</b> b)	What is the difference between Decision tree and Decision table?		5x4=20
	(c)	What is the difference between White box and Black box testing?		
	(d)	Explain the object oriented concepts.		
	(e)	Explain the components of MIS.		
		the components of Mis.		
		PART - III		
	Who	ation Same A Park		
70.	*** 118	at is a System? Explain the different phases of SDLC in detail.		0.10
	F1	OR		2+10
	Ezbi	plain various fact finding methods of system analysis.		10
	•			12
4.	Wha	at is a Data Flow Diagram? Discuss the various symbols and rules for drawing Dample.	)FD with .	- 9±10
	exar	imple.	TD WITH 8	in 2+10
		OR		
		ite short note on :	<b>,</b>	3x4=12
	(a)		,	014-12
	(Ь)	Structured Charts		
	(c)	Attributes		
5.	Wha	nat is Testing? Discuss why testing is needed? Explain Integration testing, System	testing an	d
	Acce	ceptance testing.		- 2+8=12
		, OR		
	. Wri	ite short note on :	:	3x4=12
	(a)	Maintenance and documentation		
	<b>(b)</b>	System testing		
	(c)	Validation		
		Hell X		•
6.	Writ	ite short note on :		6x2=12
	(a)	Cost benefit analysis		
	(b)	Software project planning		
		OR		
	Exp	plain COCOMO model in detail.		12
/				C910
7.	Writ	ite short note on :	'	6x2=12
••	(a)	Analysis and Design of Information System		
	(b)	Implementation and Evaluation		
		OK.	cMIC 2	+10=12
	Wha	at is Management Information System? Explain characteristics and components o	I MIG.	
	/			
		-000-		