This question paper contains 2 printed pages.

B.C.A. (Part - 11)

234

Data, Mana. Sys.

B.C.A. (PART II) EXAMINATION - 2018

(Faculty of Science)

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

Paper - 234

(Database Management System)

Time allowed : Three Hours Maximum Marks : 100

PART+1: (Very Short Answer) consists of 10 questions of 2 marks each. Maximum limit for each question is up to 40 words.

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

PART - 111: (Long answer) consists of 5 questions of 12 marks each with internal choice.

PART - I

- (a) Give any four drawback of file System.
 - (b) What is mean by data independance?
 - (c) What is mean by candidate Key?
 - (d) Define Schema.
 - (e) What is mean by Transactions?
 - (f) Define Access control.
 - (g) Define views.
 - (h) What is mean by Aggregate functions?
 - Define concurrency control.
 - (j) Give four features of Object Oriented Databases.

 $[10 \times 2 \approx 20]$

PART - 11

- (a) Discuss the architecture of DBMS.
 - (b) Write a note on Generalization and aggregation.
 - (c) What is mean by boyce codd NF? Explain.
 - (d) Write a note on types of SQL commands and SQL operators.
 - (e) Write a note on Object-Relational Databases.

 $[5 \times 4 = 20]$

P.T.O.

3	PART - III	
,,	(a) Discuss the advantages and disadvantages of DBMS.	
	(h) Define Instances,	10+2
	OR OR	1072
	Write short notes on-	
	(i) Database Administrator	
	(ii) Data Base System v/s File System	4.4
4.		6+6
	(b) What is mean by mapping constraints?	0.3
	OR	9+3
	Write short notes on-	
	(i) Operations of Relational Algebra	
	(ii) Keys	6+6
5.	(a) Explain 1", 2" and 3" normal forms with example.	0+0
	(b) What is mean by Backup and Recovery?	8~4
	OR	0.4
	Write short notes on-	
	(i) Functional Dependencies	
	(ii) Transactions & their states.	
	(iii) Loss Less decomposition	4+4+4
6.	(a) Discuss the characteristics and advantages of SQL.	
	(b) What is mean by minus in SQL?	10+2
	OR Write short notes on-	
	(i) SQL Data types	
	(ii) Aggregate Functions	
	(iii) Tables and Indexes	
7.	•	4+4-4
	(b) Explain Object-Oriented Data Model.	
	OR	6+6
	Write short notes on-	
	(i) Object-Oriented Databases	
	(ii) Distributed Transactions	
	(iii) Persistend Programming Languages	
		4+4+4