0704

POST GRADUATE DIPLOMA IN COMPUTER APPLICATION EXAMINATION, 2019 DATABASE MANAGEMENT SYSTEM

Paper - IV

Time: Three Hours Maximum Marks: 75

PART - A (खण्ड - अ)

[*Marks*: 20]

Answer all questions (50 words each).

All questions carry equal marks.

सभी प्रश्न अनिवार्य हैं। प्रत्येक प्रश्न का उत्तर 50 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

PART - B (खण्ड - ब)

[*Marks*: 35]

Answer all five questions (250 words each).

All questions carry equal marks.

सभी पाँच प्रश्न कीजिए।

प्रत्येक प्रश्न का उत्तर 250 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

PART - C (खण्ड − स)

[Marks: 20]

Answer any two questions (300 words each).

All questions carry equal marks.

कोई दो प्रश्न कीजिए। प्रत्येक प्रश्न का उत्तर 300 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

$\underline{PART - A}$

Q.1	(i)	Write the components of a Database.	[2]
	(ii)	What are the different types of Relationship?	[2]
	(iii)	What do you mean by derived attribute?	[2]
	(iv)	List out the characteristics of a typical Relational DBMS.	[2]
	(v)	Define foreign key.	[2]
	(vi)	What do you mean by Functional Dependencies?	[2]
	(vii)	List out different types of SQL commands.	[2]
	(viii)	Write the differences between index and sort.	[2]
	(ix)	What is database privilege?	[2]
	(x)	Which are the password – related threats in database?	[2]
		<u>PART – B</u>	
Q.2	Disc	cuss the characteristics of data in a database.	[7]
Q.3	Expl	ain the symbols used to draw E-R diagram.	[7]
Q.4	Explain second normal form with example.		
Q.5	Discuss the basic data types in SQL.		
Q.6	Who	are the main users of database? Write the responsibilities of DBA.	[7]
		PART – C	
Q.7	(a)	Discuss the advantages of DBMS.	[5]
	(b)	Explain logical and physical model.	[5]
Q.8	(a)	Discuss attribute inheritance with example.	[5]
	(b)	Describe the concept of super class and subclass types taking suit	table
		example.	[5]
Q.9	(a)	Define Boyce - Codd normal form. How does it differ from 3NF? Why	is it
		considered a stronger form of 3NF?	[5]
	(b)	What is a relation algebraic expression? Explain relational algebraic	braic
		operations.	[5]
Q.10	(a)	Discuss the recovery facilities provided by DBMS.	[5]
	(b)	Write a note on View in SQL.	[5]
Q.11	(a)	Discuss types of Integrity Constraints.	[5]
	(b)	Write a note on authorization of users to database.	[5]

Page **2** of **2**

[0704]