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	P-3720	$\bigcirc$
F	First Year B. C. A. (Sem. II) Examination	25
	March / April – 2014	RY
	205 : Database Management System	ay
Time :	3 Hours] [Total Marks :	70
Instruc		
(1)		)
નીચે દર્શાવ	ાલ 🖝 નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. 💦 Seat No. :	
	rictly the details of a signs on your answer book. the Examination :	
	B. C. A. (SEM. 2)	
	the Subject :	
✓ 205 :	DATABASE MANAGEMENT SYSTEM	
	b/\_	
Subject (	Code No. : 3 7 2 0 Section No. (1, 2,) Nil Student's Signature	
(2) Fig	ure on the right indicate marks.	
	ke assumption whenever necessary.	
	wer following : (any seven)	14
(i)	Define Database.	
(ii)	Give difference between Total & Partial participation in a relationship	).
(iii)	What is the between Trivial & Non-Trivial dependencies.	
(iv)	Explain Prime & Non-Prime attributes.	
(v)	List various DCL commands.	
(vi)	What is Referential Integrity? How can we achieve it?	
(vii)		
(viii)	What is the difference between physical and logical data independence	e?
2 Answ	wer the following : (any three)	18
(i)	Define DBMS. Explain structural architecture of DBMS.	
(ii)	What is functional dependency? Explain types of functional dependen	су
(***)	with an example.	
(iii)	Discuss the concept of Decomposition. Explain the desirable propertie	s of
Gui	decomposition.	
(iv)	What is purpose of mapping cardinality? Explain it with example.	
3 Ansv	ver the following : (any two)	14
(i)	Explain Explain DDL and DML. Also list commands of both language	
(ii)	Write a note on various types of keys.	.5.
(iii)	Differentiate between strong and weak entity set.	
()		
4 Answ	ver the following : (any two)	14
(i)	Draw an E-R Diagram for Library Management System.	
) (ii)	What is normalization? Explain upto 3 <sup>rd</sup> normal form.	
(iii)	List & explain Armstrong's Axioms.	
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5 Write SQl statement to create these tables & solve the following Queries :

RoomMaster (RoomNo, RoomType, Rate)

Customer (CustNo, CustName, City, RoomNo, Allocate\_Date, Total\_Days)

- (i) Create table with appropriate constraints.
- (ii) Find the Customers who are allocated Rooms of 'Super' type.
- (iii) Display the room type which is used maximum.
- (iv) Display Customers who have visited in last 15 days.
- (v) Display total no. of customers who belong to Mumbai City.

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