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Roll No.:....

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B. E. (Fifth Semester) Examination, Nov.-Dec. 2021

(New Scheme)

(IT Engg. Branch)

DATABASE MANAGEMENT SYSTEM

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) is compulsory from each questions. Solve any two parts from (b), (c) and (d).

Unit-I

1. (a) What is weak entity? The beautiful and the

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(b) What is attribute? Discuss the types of attributes in brief.

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	(c)	Explain the specialization and generalization with suitable diagram.	7
	(d)	Explain the difference between B trees and B^+ trees. Give suitable example.	7
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2.	(a)	List the various DDL Command.	2
		Describe the type relation calculus and domain relational calculus with example. What is triggers? Explain where it is used with	7
		syntax?	7
	(d)	What is Join? Explain various types of join with suitable example.	7
		dragaties at the total Unit-III at the type and a series	
3.	(a)	Define Primary Key.	2
	(b)	What do you mean by normalization? Discuss	
		insertion, deletion and modification anomalies. Why are they considered bad?	7
	(c)	Explain the types of functional dependency with	
		examples.	7

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(d)	Describe	1	NF,	2	NF	and	3	NF	with	suitable
	example.					P				

Unit-IV

4.	(a)	What is Schedule?	
	(b)	Explain ACID property in detail.	,
	(c)	What is serializability and why it is required?	
	(d)	What are the different transaction states encountered in transaction state life cycle? Illustrate with suitable	
		example.	4

Unit-V

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(b)	What are different type of failures? Explain the	
` ′	concept of recovery also.	
(c)	What is shadow paging? Explain it with suitable diagram.	
(d)	Explain validation based protocol. Also explain its phases.	

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5. (a) What is Check Points?