B.Tech. 4th Semester (CSE) (F-Scheme) Examination, May-2018

DATABASE MANAGEMENT SYSTEMS Paper-CSE-202-F

Time allowed: 3 hours]

[Maximum marks: 100

Note: Attempt any five questions in all, selecting one question from each Part. Question No. 1 is compulsory.

- 1. (a) What is a weak entity? Give an example.
 - (b) State the need of query optimization.
 - (c) Write the characteristics that distinguish the Database approach with the file based approach.
 - (d) What is authorization and authentication in oracle?
 - (e) Write about the four types of Data warehouse schemas.
 - (f) What is data stripping?
 - (g) Why is B+ tree efficient than B tree.
 - (h) Explain atomicity of a transaction.
 - (i) What is Database and DBMS?
 - (j) Define Primary and Foreign Key.

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Section-A

 (a) Explain the overall system structure of Database 	management system.	(b) Illustrate the need for a Database system with the	help of suitable example.
(a)		9	
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- system. Assume suitable entity and relations. 10 Draw an E-R diagram for a student management (a)
- Give a brief note on the different views of data, with the necessary diagram. **@**

Section-B

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Discourse hours multi lorre	-
	Discuss how multi-level indexes are constructed using B trees and B+ trees.

- Explain static hash function. What is the need for dynamic hash function. (a) Ś
- Explain the principle of the various RAID levels. **@**

Section-C

e-code normal	10
xplain 2nd normal form and Boyee-code norm	ns with example.
Exp	form
(a)	
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Explain domain constraints and referential integrity with examples. **@**

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g queries are processed	
sorting	
how	
Explain how sorting	examples

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Section-D

- (b) Explain 2-Phase commit protocol.
- 20 What is serializability? What are its types? What is a serializability schedule? Give example. 6