



# Siddaganga Institute of Technology, Tumakuru – 572 103

(An Autonomous Institution affiliated to VTU, Belagavi, Approved by AICTE, New Delhi)

**Fifth Semester B.E. Information Science & Engg. Examinations Feb. - Mar. 2022**

## Database Management System

Time: 3 Hours

Max. Marks: 100

**Note : 1. Answer any five questions choosing one full question from each unit.**

### Unit - I

1 a) Define the following terms

i) Database    ii) DBMS    III) Host language    iv) SDL    V) Metadata

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b) Design an ER diagram for a BANK database, Assume your own entries (minimum 5 entries). Specify the necessary requirements.

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c) Describe the three-scheme architecture why do we need mapping between scheme levels? How do different schema definition language support this architecture.

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### OR

2 a) List the advantages of using the DBMS approach. Explain any three.

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b) Discuss the different types of user friendly interface and the types of user who typically use each.

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c) When is the concept of a weak entry used in Data Modelling? Define the terms identifying relationship type and partial key, with examples for each.

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d)

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### Unit – II

3 a)

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b)

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c)

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d)

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### OR

4 a)

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b)

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c)

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d)

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### Unit – III

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**OR**

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### Unit – IV

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**OR**

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### Unit – V

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c)

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d)

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**OR**

**10** a)

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b)

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c)

BL:		CO:		PO:		PSO:	
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d)

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*Please Turn Over*

**5RIS02**