

## WEST BENGAL STATE UNIVERSITY

B.Com. Programme 5th Semester Examination, 2020 held in 2021

## FACGDSE06T-B.Com. (DSE1)

Time Allotted: 2 Hours Full Marks: 50

The figures in the margin indicate full marks.

Candidates should answer in their own words and adhere to the word limit as practicable.

All symbols are of usual significance.

1.		Answer any <i>five</i> questions from the following:	$2 \times 5 = 10$
	(a)	Define DBMS.	
	(b)	What is DDL?	
	(c)	List different types of data model used.	
	(d)	What are the applications of DBMS?	
	(e)	Give the levels of data abstraction.	
	(f)	What is instance?	
	(g)	Define data dictionary.	
	(h)	Explain attributes with example.	
		Answer any four questions from the following	5×4 = 20
2.		Explain entity relationship model.	5
3.		Define schema. What are the different types of schema?	2+3
4.		List the difference between file processing system and DBMS.	5
5.		Who is DBA? What are the responsibilities of DBA?	2+3
6.		Explain the distinction among the term candidate key, primary key and super key.	5
7.		What is weak entity set? State generalization.	2+3

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	Answer any two questions from the following	$10 \times 2 = 20$
8.	What is normalization in DBMS? What are the types of normalization? List the difference between BCNF and 3NF.	2+5+3
9.	Explain hierarchical model. State three schema architecture.	5+5
10.	Write short notes on: (a) Aggregation (b) Generalization.	5+5
11.	Define data transmission. Differentiate LAN & WAN. Explain various topologies.	2+3+5

**N.B.:** Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.

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