

RAMAKRISHNA MISSION VIDYAMANDIRA

(Residential Autonomous College affiliated to University of Calcutta)

B.A./B.Sc. SECOND SEMESTER EXAMINATION, JUNE 2022

FIRST YEAR (BATCH 2021-24)

COMPUTER SCIENCE (GENERAL)

Date : 24/06/2022

Time : 11.00 am – 1.00 pm

Paper : II

Full Marks : 50

Group : A

Answer **any five** questions of the following:

[5×5]

1. What are the issues of traditional file-based systems that make DBMS a superior alternative?
2. What are the different levels of data abstraction?
3. What is descriptive attribute? How it is differed from composite attribute?
4. How do you choose a database model? What is the difference between ER model and Network model?
5. What are different types of SQL statements? What are the differences between DROP, DELETE and TRUNCATE commands in SQL? What is the difference between WHERE and HAVING clause?
6. Briefly discuss about left inner join and natural join.
7. Discuss about different components about DBMS.

Group : B

Answer **any five** questions of the following:

[5×5]

8. a) What do you mean by client-server architecture and peer-to-peer architecture?
b) Define port number. [(2+2)+1]
9. a) State the advantages and disadvantages of mesh topology.
b) Define point-to-point connection. [(2+2)+1]
10. a) Highlight different network criteria.
b) What do you mean by communication bus? [4+1]
11. Define LAN, MAN and WAN. [5]
12. a) What are the different modes of data transmission?
b) State the differences between internet and Internet. [3+2]
13. a) What are the responsibilities of transport layer in Internet model?
b) What do you mean by logical addressing? [3+2]
14. What do you mean by datagram and virtual circuit? [2.5+2.5]

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