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5 SEM TDC GECA (CBCS) GE 5

2024

(NOVEMBER)

COMPUTER APPLICATION

Paper : GE-5

(IT Fundamentals)

Full Marks : 53

Pass Marks : 21

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Answer the following questions briefly : $1 \times 10 = 10$

- (a) What is digital signal?**
- (b) What is a barcode in Computer Science?**
- (c) What is virtual memory?**
- (d) What is a primary key?**
- (e) What is an IP address?**

(2)

- (f) What is indexing in search engines?
- (g) Give one example of data analysis tool.
- (h) What is a firewall?
- (i) What is heterogeneous storage?
- (j) What does BCC stand for in email?

2. Differentiate between the following : $4 \times 2 = 8$

- (a) Primary Memory and Secondary Memory
- (b) Internet and Intranet

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

$5 \times 5 = 25$

- (a) What are the main components of a computer system? Explain the primary function of each component.
- (b) How does a star topology work? What are its primary benefits?
- (c) What is meant by user interface? Explain various types of user interface of OS.
- (d) What is transmission media in a computer network? Explain various types of transmission media in computer network.

(3)

- (e) List the benefits and drawbacks of online education.
- (f) Discuss the role of an operating system in managing hardware resources and providing services to applications and users.

4. Answer any *two* of the following questions :

$5 \times 2 = 10$

- (a) What is a relationship in a database, and how does it connect different entity sets?
- (b) How do you write a basic SQL query to retrieve all columns from a table? Provide an example.
