UG Semester-End Final Exams-2025

B.COM 4th Semester

(VAC)

Fundamentals of Computing

Full Marks: 37.5 Pass Mark: 15 Time: 2 Hours

SECTION-I. Choose the most appropriate answer:

(0.5 X 15=7.5)

- 1. Control unit is a part of
 - a) CPU
 - b) Input Unit
 - c) Output Unit
 - d) ALU
- 2. The binary equivalent of 13 is
 - a) 1011
 - b) 1100
 - c) 1010
 - d) 1101
- 3. Which of the following is a volatile memory?
 - a) ROM
 - b) Cache memory
 - c) RAM
 - d) Hard disk
- 4. What is the primary function of the operating system?
 - a) Creating documents
 - b) Managing Hardware resources
 - c) Editing images
 - d) Browsing the internet

. What does LAN stand for?	11. Which notation is used to represent the relationship between entities in
a) Local Access Network	an ER diagram?
b) Long Area Network	a) Rectangle
c) Local Area Network	b) Ellipse
d) Limited Access Network	S. What is the characteristic of database? bnomaid (o
	6. Define Database.
. The decimal equivalent of 10001 is	7. Write the full form of SDLC.
a) 14	12. In a relational database, what is a primary key?
b) 15	a) A key used for indexing purposes
c) 16 x 2.0) SECTION-I. Choose the most appropriate answers	b) A unique identifier for each record in a table
d) 17	c) A key used for establishing relationships between tables
1. Control unit is a part of	d) A key that allows null values
. A is a set of rules that governs data communication	
a) Protocol	13. In an ER diagram, what does a double ellipse represent?
b) Forum	a) Weak entity
c) Standard	b) Strong entity (10011) (b) (110111) (c) (1101) (d) (1011) (e)
d) None of the above	c) Cardinality constraint
2. The binary equivalent of 13 is	c) Cardinality constraint d) Existence dependency constraint
. Methods used to convey information	(a) 44 (b) 369 (c) 276 (d) 1798 (a) 8465
a) Text and pictures	14. Which type of database model organizes data into tables with predefined
b) Videos	relationships between them? AW bits MAM MAI neewed endinenships a
c) Animations	a) Hierarchical
d) All of the above	5. Define Network Topologies. Explain some of the important showted (d.
	c) Relational
. Devices may be arranged in a topology.	d) Object-oriented
a) Mesh	Explain in detail System Development Life Cycle (SDLC).
b) Ring	15. What is the primary purpose of a database in computing?
c) Bus	a) Gaming
d) All of the above	b) Storing and managing data and gate and address distance and analysis analysis and analysis analysis and analysis and analysis and analysis analysis analysis a
	c) Graphic design
0. Which of the following is an example of a wireless network technology?	d) Network security
a) Ethernet	9. What is Relational Model? Discuss in brief the concept of transforming
b) Bluetooth	SECTION –II. Answer the following questions briefly (any five) 1×5=5
c) Fiber optics	1. Write one characteristics of computer.
d) Coaxial cable	2. What are the shortcut keys for copying?
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- 3. What is the value of the base for decimal, hexadecimal, binary and octal number.
- 4. Define data communication.
- What is the characteristic of database?
- Define Database.
- 7. Write the full form of SDLC.

SECTION-III. Descriptive Type. Answer any five questions:

- 1. What are the different components of CPU? Write briefly about each component of CPU.
- 2. Find out the decimal equivalent of the following binary numbers:
- a) (1101), b) (1011), c) (111011),
- d) (1100110), e) (11110),
- 3. Convert the following into decimal numbers to binary form:
 - (a) 44
- (b) 369
- (d) 1798
- (e) 8462
- 4. Differentiate between LAN, MAN and WAN. (Mention five points)
- 5. Define Network Topologies. Explain some of the important network topologies.
- 6. Explain in detail System Development Life Cycle (SDLC).
- 7. Explain the components of Information systems development.
- 8. Define ER Model. Describe the step by step for creating an initial ER Model.
- 9. What is Relational Model? Discuss in brief the concept of transforming ER Model to Relational data model of accounting and business applications.

what are the shortcut keys for quality