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Course Title: Introduction to Information Technology

Full Marks: 60 Pass Marks: 24

Semester: I Credit Hrs: 3

Section A

Attempt any two questions. ($2 \times 10 = 20$)

1. What is operating system? Discuss different functions of operating system in detail. (2 + 8)

2. Why do we need computer network? Discuss different types of network topologies along with their merits and demerits. (3 + 7)
3. What are the benefits of storing data using databases? Discuss three levels of database system architecture in detail. (3 + 7)

Section B

Attempt any eight questions. ($8 \times 5 = 40$)

4. Discuss characteristics of third generation of computers. Compare it with fourth generation. (3 + 2)
5. Discuss the components of CPU in brief. (5)
6. What is primary memory? Discuss different types of primary memory. (1 + 4)
7. Define hard-copy and soft-copy output. Differentiate between impact and non-impact printers with example. (2 + 3)
8. Convert $(AF7)_{16}$ to binary. Subtract $(1001101)_2$ from $(1100011)_2$. (2 + 3)
9. Define IP address with example. What are the benefits of using domain name? (2 + 3)
10. What are the characteristics of multimedia? Discuss. (5)
11. Define cryptography. Discuss public key cryptography in detail. (1 + 4)
12. Write short notes on: ($2 \times 2.5 = 5$) a. BigData b. E-governance

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