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B.E / B.Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, APRIL / MAY 2019

COMPUTER SCIENCE AND ENGINEERING

CS8202- PRINCIPLES OF COMPUTER ENGINEERING

SEMESTER II

(Regulation 2012)

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

PART-A (10 x 2 = 20 Marks)

1. List the characteristics of computers.
2. When two processors are said to be compatible?
3. Define computer ethics.
4. Differentiate Procedural programming and Object oriented programming
5. List down the functions of an operating system.
6. What are the conditions for deadlock to occur?
7. Write down the roles of a Database Administrator.
8. What are the advantages of using databases for data storage?
9. Why computer networks are needed?
10. Differentiate OSI and TCP/IP.



Part – B (5 x 16 = 80 marks)

11. i) Draw and explain flowcharts notations. What are the limitations in drawing flowcharts? Draw a flowchart to search a given number in an array. (10)
ii) Write about units of data storage. (6)
 12. a) i) Elaborate on the classification of computers in terms of size, type, price and performance. (10)
ii) Discuss about the basic components of a computer and its operations. (6)
- (OR)
- b) i) Write about scripting languages and its merits. (8)
ii) Explain the computer language generations. (8)

13. a) i) Discuss how an operating system manages various devices attached to computers. (16)

(OR)

b) i) Discuss any four CPU scheduling algorithms with examples. (10)

ii) Compare and contrast UNIX with WINDOWS operating system in terms of security. (6)

14. a) i) Draw and discuss the three level architecture of DBMS. (10)

ii) Write short notes data independence. (6)

(OR)

b) i) Draw the Entity-Relationship model for banking system. (8)

ii) With sample queries, explain the steps for creating, manipulating and retrieving the databases using database languages. (8)

15. a) i) Discuss in detail about the TCP/IP network model. (16)

(OR)

b) Write short notes on

i) Networking devices (8)

ii) Network topologies (8)

