

END SEMESTER THEORY EXAM; NOV./DEC.-2018

Program:	M. Tech (CSE)	Year/Semester:	3rd Sem.
Course/Subject:	Knowledge Based System Design	Duration:	03:00 Hrs.
Course/Subject Code:	13110301	Maximum Marks:	100
Roll No.:			

Instructions:-

1. Write your Roll No. on the Question paper.
2. Candidate should ensure that they have been provided correct question paper. Complaint(s) in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. Attempt any five questions in all. Q.1 is compulsory. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

- Q. 1 Explain the following- (4 X 5=20)
- a) Knowledge Based Systems
 - b) Prolog
 - c) Expert System
 - d) Types of knowledge
- Q.2. (a) Explain Knowledge Based System Architecture. Describe various knowledge acquisition techniques. (10)
- (b) What is frame? How frames can be used to represent knowledge. (10)
- Q. 3 Explain following terms in detail: (20)
- (a) Knowledge Bases
 - (b) Inference Engine
 - (c) Self Learning
 - (d) Reasoning
- Q.4. (a) What is FOPL? Explain with the help of examples. (10)
- (b) State and prove Baye's theorem. (10)
- Q.5. (a) Explain propositional calculus and Predicate calculus (10)
- (b) Describe Resolution with help of example. (10)
- Q.6. (a) What are agents? How agents are useful in intelligent systems? (10)
- (b) Explain A* Algorithm. Write difference between A* and AO*algorithm. (10)

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Program:	M. Tech (CSE)	Year/Semester:	3rd Sem.
Course/Subject:	Advance Database Management system	Duration:	03:00 Hrs.
Subject Code:	13110302	Maximum Marks:	100

Roll No.:

Instructions:-

1. Write your Roll No. on the Question paper.
2. Candidate should ensure that they have been provided correct question paper. Complaint(s) in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. Attempt five questions in all. Q.1 is compulsory. Attempt other four questions selecting atleast one question from each unit . Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

Q.1 Explain the following-

(4x5=20)

- a) Write Ahead protocol
- b) ACID Properties
- c) Distributed DBMS
- d) Serializability

UNIT-I

- Q.2. What is dbms? Compare the strength and weaknesses of DBMS ? What are the application areas of dbms? (20)
- Q.3 Write a brief note on normal forms. Explain all types of normal forms with example ? (20)

UNIT-II

- Q.4. What is Lock Management? Explain locking techniques in detail? (20)
- Q.5. Explain recovery? What are the different methods for recovery? (20)

UNIT-III

- Q.6. What is Indexing and File Organization ? explain the types of Indexing in detail? (20)
- Q.7. What is Hash Based Indexing? What is the difference between Extendable hashing and Linear Hashing.? (20)

UNIT-IV

- Q.8. Explain Distributed DBMS architectures and data Storing in detail? (20)
- Q.9. Explain in detail Distributed query processing and updating distributed database? (20)

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Program:	M. Tech (CSE)	Year/Semester:	3rd Sem.
Course/Subject:	System and Network Administration	Duration:	03:00 Hrs.
Course/Subject Code:	13110303	Maximum Marks:	100
Roll No.:			
Instructions:-			
1. Write your Roll No. on the Question paper.			
2. Candidate should ensure that they have been provided correct question paper. Complaint(s) in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.			
3. Attempt all questions in all. Q.1 is compulsory. Attempt other four questions selecting one question from each unit. Parts of a question should be attempted in sequential order. Marks are indicated against each question.			
4. Illustrate your answer with diagram wherever required.			

Q. 1. Explain the following:-

(4X5=20)

- a) Multicasting on a LAN
- b) Commands-
(i) ls (ii) ipconfig (iii) ping (iv) tracert (v) grep
- c) Differences between UNIX and Windows OS
- d) Security issues in System Administration

UNIT-I

- Q.2. (a) What do you understand by IP address? How is it different from Physical address? (20)
(b) Differentiate between IPV 6 and IPV4.
- Q.3. What do you mean by Network Administration? Explain the responsibilities of a Network Administrator. (20)

UNIT-II

- Q.4. (a) What is subnetting and Supernetting? Give example of each. (20)
(b) Compare UDP and TCP
- Q.5. Explain any 10 unix commands with examples. (20)

UNIT-III

- Q.6. (a) Explain Socket Programming with an example. (20)
(b) Explain the differences between Static and Dynamic routing.
- Q.7. (a) Compare Multicasting, Broadcasting and Unicasting. (20)
(b) What are the goals of a System Administrator?

UNIT-IV

- Q.8. (a) Write a short note on – (20)
(i) FAT (ii) NTFS
- Q.9. Explain the various network topologies. (20)

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Program:	M. Tech (CSE)	Year/Semester:	3rd Sem.
Course/Subject:	Software Project Management	Duration:	03:00 Hrs.
Course/Subject Code:	13110307	Maximum Marks:	100
Roll No.:			

Instructions:-

1. Write your Roll No. on the Question paper.
2. Candidate should ensure that they have been provided correct question paper. Complaint(s) in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. Attempt five questions in all. Q.1 is compulsory. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

- Q.1** Answer the followings:- **(5x4 = 20)**
- (a) What do you mean by Software Project Management?
 - (c) Differentiate between product and process metrics.
 - (d) What is test plan? Write contents of a test plan?
 - (e) What is the significance of software quality in software project management?
- Q.2.** What is Software Estimation? Explain all types of techniques used for Software Estimation in detail. **(20)**
- Q.3** What is Software Quality Assurance (SQA)? Explain all activities of SQA. Also explain quality attributes. **(20)**
- Q.4.** What is software process model? Explain all levels of CMM Model with key process areas at each level. **(20)**
- Q.5.** What are the benefits of agile project management? How does agile methodology bring transparency in projects? **(20)**
- Q.6.** What is project scheduling? What is its significance? Explain the tools and techniques used in project scheduling. **(20)**
