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18CS51

Fifth Semester B.E. Degree Examination, July/August 2021 Management and Entrepreneurship for IT Industry

Time: 3 hrs.

Max. Marks: 100

| | | Note: Answer any FIVE full questions. | |
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| | | | |
| | | | |
| 1 | a. | Define management. Explain characteristics of management. | (10 Marks) |
| | b. | Describe the steps involved in the process of planning. | (10 Marks) |
| | | 04' | |
| 2 | a. | Define selection. Discuss the steps involved in the process selection. | (10 Marks) |
| | b. | Explain the principles of organization. | (10 Marks) |
| | | | |
| 3 | a. | Define leadership. Briefly explain types of leadership styles. | (10 Marks) |
| | b. | Define motivation. Mention motivation theories. Explain Herzberg's two factor the | |
| | | | (10 Marks) |
| 4 | a. | Define controlling. Discuss steps involved in controlling. | (10 Marks) |
| | b. | Explain the technique of co-ordination. | (10 Marks) |
| | | | |
| 5 | a. | Define Entreprenur. What are the characteristics of an Entreprenur? | (10 Marks) |
| | b. | Explain the barriers to Entreprenurship. | (10 Marks) |
| | | | |
| 6 | a. | What are the roles of Entrepreneurship in Economic development? | (10 Marks) |
| | b. | Discuss technical feasibility and market feasibility study. | (10 Marks) |
| | | | |
| 7 | a. | How do you identify a project? Enumerate the criteria for selection of a particular | |
| | | | (10 Marks) |
| | b. | Explain the guidelines provided by planning commission for preparation of pro- | ject report. |
| | | Alass D | (10 Marks) |
| 0 | | What is Enterprise Resource Planning (ERP)? Why ERP is important to a compar | 237 |
| 8 | a. | what is Enterprise Resource Planning (ERF); why ERF is important to a company | (10 Marks) |
| | b. | Explain types of project reports. | (10 Marks) |
| | A | Explain types of project reports. | (|
| 9 | a. | Explain the characteristics of Small Scale Industry. | (10 Marks) |
| | b. | Explain the following (i) KSFC (ii) NSIC (iii) DIC | (10 Marks) |
| | | | |
| 10 | a. | Explain the role of Small Scale Industry. | (10 Marks) |
| | b. | What are Intellectual Property Rights? Briefly explain the main forms of IPR. | (10 Marks) |
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Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice.

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18CS52

Fifth Semester B.E. Degree Examination, July/August 2021 **Computer Networks and Security**

Time: 3 hrs.

Max. Marks: 100

| | | Note: Answer any FIVE full questions. | |
|----|----------------|--|--|
| 1 | a. b. c. | Describe HTTP with persistent and non-persistent connections. Write a note on web caching. Explain SMTP with example. | (10 Marks) (05 Marks) (05 Marks) |
| 2 | a. b. | Define a Socket. Describe the socket programming using TCP. Describe in detail the services provided by DNS and explain the DNS message for | |
| | | | (10 Marks) |
| 3 | a. | Illustrate TCP and UDP segment structure with a help of diagram. | (10 Marks) |
| | b. | With an FSM, explain the three phases of congestion control. | (10 Marks) |
| 4 | a. | Explain the stop and wait protocol with FSM representation rdt2.1. | (10 Marks) |
| | b. | Explain the concept of transport layer multiplexing and De-Multiplexing. | (10 Marks) |
| 5 | a. | What is routing? Explain the structure of router. | (10 Marks) |
| | b. | Explain 1PV4 datagram format with neat diagram. | (10 Marks) |
| 6 | a. | Explain Dijkstra's algorithm with example. | (10 Marks) |
| | b. | Discuss the 1PV6 packet format. | (06 Marks) |
| | c. | List the broadcast routing algorithms. Explain any one of them, | (04 Marks) |
| 7 | a. | Explain four types of internet infrastructure attacks in Network security. | (10 Marks) |
| | b. | What is secret-key encryption protocols? Explain DES algorithm. | (10 Marks) |
| 8 | a. | Discuss the secure Hash Algorithm. | (05 Marks) |
| | b. | Explain IP security and 1Psec. | (05 Marks) |
| | c. | Explain RSA Algorithm. Using RSA algorithm encrypt a message M = 9. Assume | p = 3 and |
| | 4 | q = 11. Find public and private keys and also show the cipher text. | (10 Marks) |
| 9 | a. | List the categories of streaming stored video. Explain one of them. | (10 Marks) |
| | b. | Bring out the leaky bucket mechanism for traffic policing. | (10 Marks) |
| 10 | a. | Write a short notes on: | |
| | | i) Netflix video streaming platform | |
| | | ii) VOIP with skpe. | (10 Marks) |
| | b. | Explain the types of multi media network applications. | (10 Marks) |

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

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Fifth Semester B.E. Degree Examination, July/August 2021 **Database Management Systems**

Time: 3 hrs.

Max. Marks: 100

(06 Marks)

(06 Marks)

| | | Note: Answer any FIVE full questions. | |
|---|----|---|--------------------------|
| 1 | a. | List and briefly explain the observatoristics of detabase annuals | |
| 1 | b. | List and briefly explain the characteristics of database approach. | (08 Marks) |
| | c. | Define a data model. Discuss the main categories of data model with examples. | (08 Marks) |
| | C. | Explain the different types of end users with examples. | (04 Marks) |
| 2 | 0 | What are the adventage of the DDMGOD; G | Nacadation of IN |
| 2 | a. | What are the advantages of using DBMS? Briefly explain them. | (08 Marks) |
| | b. | Describe the three-schema architecture. Why do we need mapping between sche | |
| | c. | List and explain the different types of attributes with examples. | (06 Marks) |
| | C. | List and explain the different types of attributes with examples. | (06 Marks) |
| 3 | a. | Define the following with examples: | |
| 3 | а. | (i) Super key | |
| | | (ii) Candidate key | |
| | | (iii) Primary key | |
| | | (iv) Foreign key | |
| | b. | | (08 Marks) |
| | U. | Summarize the steps involved in converting the ER constructs to relational scheme | |
| | c. | Explain the various inner join operations in relational algebra with examples. | (06 Marks) (06 Marks) |
| | | Jour operations in relational digeord with examples. | (00 Marks) |
| 4 | a. | Describe the six clauses in the syntax of an SQL retrieval query. | (06 Marks) |
| | b. | How the aggregate functions and grouping are specified in relational model? Expl | ain |
| | | and grouping are specified in tentional model: Expi | (06 Marks) |
| | c. | Consider the following schemas: | (0011211110) |
| | | SAILOR (SID, SNAME, RATING, AGE) | |
| | | BOAT (BID, BNAME, COLOR) | |
| | | RESERVE (SID, BID, DAY) | |
| | | Specify the following queries in relational algebra: | |
| | | (i) Retrieve the sailor names that have reserved red and green boats. | |
| | 13 | (ii) Retrieve the colors of boats reserved by Raj. | |
| | 4 | (iii) Retrieve the SIDs of sailors with age over 20, who have not reserved a | red boat. |
| | | (iv) Retrieve the names of sailors who have reserved all boats. | (08 Marks) |
| | | | (|
| 5 | a. | Explain the schema change statements in SQL with examples. | (06 Marks) |
| | b. | What are views? Explain the specification and implementation of views in SQL. | (08 Marks) |
| | c. | Describe the concept of cursor and how it is used in embedded SQL. | (06 Marks) |
| | | | |
| 6 | a. | With a neat diagram, explain the Three-Tier architecture and the technology relev | ant to each |
| | | tier. What are the advantages of Three-Tier architecture? | (08 Marks) |
| | h | | And the second second |

How are triggers and assertions specified in SQL? Explain with examples.

What is dynamic SQL? How it differs from embedded SQL?

| 7 | a. | Discuss the informal design guidelines for relation schemas with examples. | (08 Marks) |
|----|----|---|-------------|
| | b. | Explain first second and third normal forms with examples. | (06 Marks) |
| | c. | What is functional dependency? Write an algorithm to find a minimal cover for | or a set of |
| | | functional dependencies. | (06 Marks) |
| | | | |
| 8 | a. | Which normal form is based on the concept of transitive functional dependency? I | Explain the |
| | | same with an example. | (06 Marks) |
| | b. | State and prove the inference rules for functional dependencies. | (06 Marks) |
| | c. | Define multivalued dependency. Explain 4NF with examples. | (08 Marks) |
| | | | |
| 9 | a. | What are the anomalies due to interleaved execution of transactions? Explain with | examples. |
| | | | (00 Marks) |
| | b. | Define locking protocol. Describe the strict Two Phase Locking (2PL) protocol. | (06 Marks) |
| | c. | Explain the three phases of the ARIES recovery technique. | (06 Marks) |
| | | | ah duning |
| 10 | a. | With a neat diagram, explain the typical states that a transaction goes through | (08 Marks) |
| | | execution. | |
| | b. | | (06 Marks) |
| | | with these problems. | |
| | c. | | ilizabic. |
| | | (i) $R_1(X)$; $R_3(X)$; $W_1(X)$; $R_2(X)$; $W_3(X)$; | (06 Marks) |
| | | (ii) $R_3(X)$; $R_2(X)$; $W_3(X)$; $R_1(X)$; $W_1(X)$; | (00 Marks) |
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Fifth Semester B.E. Degree Examination, July/August 2021 Automata Theory and Computability

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- a. Define the following terms with examples alphabet, powers of an alphabet string, string concatenation and languages. (10 Marks)
 - b. Define DFSM. Design a DFSM to accept each of the following languages:
 - i) $L = \{W \in \{0.1\}^* : W \text{ is ending with } 011\}$
 - ii) $L = \{W \in \{0.1\}^* : W \text{ has odd numbers of a's and even numbers of b's} \}$ (10 Marks)
- 2 a. Convert the following NDFSM to DFSM:

| δ | 3 | _a a | b | С |
|-----------------|------------------|------|-----|-----|
| $\rightarrow p$ | φ ₄ < | {p} | {q} | {r} |
| q | {p} | {q} | {r} | ф |
| *r | {q} | {r} | ф | {p} |

(10 Marks)

b. Define distinguishable and Indistinguishable states. Minimize the following DFSM.

| δ | a | b |
|-----------------|---|---|
| $\rightarrow A$ | В | F |
| В | G | C |
| *C | A | C |
| D | C | G |
| E E | Н | F |
| F | C | G |
| G | G | E |
| Н | G | C |
| | - | |

(10 Marks)

- 3 a. Define Regular expression. Write the regular expression for the following languages:
 - i) To accept strings of a's and b's such that third symbol from the right is 'a' and fourth symbol from the right is 'b'.
 - ii) $L = \{a^n b^m; n \ge 4, m \le 3\}$

(10 Marks)

b. Build a regular expression from the following FSM (Finite State Machine).

(06 Marks)

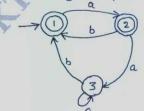


Fig.Q.3(b)

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c. Write an equivalent NDFSM for the following regular expression a(a* + b*)*b. (04 Marks)

n equivalent NDFSM fo

2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages

- Show that regular languages are closed under complement and intersection. (10 Marks) State and prove pumping lemma theorem for regular languages. And show that the language
 - $L = \{WW^R : W \in \{0, 1\}^* \text{ is not regular}\}.$ (10 Marks)
- Define CFG (Context Free Grammar). Design CFG for the languages.
 - $L = \{ O^{2n} 1^m | n >= 0, m >= 0 \}$
 - $L = \{O^{i}1^{j}2^{k}|i=j \text{ or } j=k\}$ (10 Marks)
 - b. Define Ambiguity. Is the following grammar ambiguous? Give reason. S → iCts iCtSeS a

(10 Marks) $C \rightarrow b$

- a. Define CNF (Chomsky Normal Form). Convert the following CFG to CNF. $S \rightarrow aACa, A \rightarrow B|a, B \rightarrow C|c, C \rightarrow cC|\epsilon$ (10 Marks)
 - b. Define PDA (Push Down Automata). Design a PDA to accept the following language, $L = \{a^nb^n : n \ge 0\}$. Draw the transition diagram for the constructed PDA. Show the ID's for the string aaabbb. (10 Marks)
- a. Define a Turing Machine. Explain the working of a Turing Machine. (08 Marks)
 - Design a Turing Machine to accept $L=\{0^n1^n2^n | n>=0\}$. Draw the transition diagram. Show the moves made for string 001122. (12 Marks)
- Design a TM for addition of 2 numbers (2+3) with transition diagram and ID for the same.
 - (14 Marks)
- Define and differentiate DTM and NDTM. (06 Marks)
- Explain post correspondence problem. (08 Marks)
 - (08 Marks) Explain Halting problem in Turing Machine.
 - (04 Marks) Write a note on Church Turing Hypothesis.
- (12 Marks) Explain three variants of Turing Machine.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

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Fifth Semester B.E. Degree Examination, July/August 2021 Application Development using Python

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions.

- a. Explain string concatenation and string replication operator with an example.
 b. Illustrate the use of break and continue with an example.
 (05 Marks)
 (05 Marks)
 - c. With the flow chart, explain the flow control statements while, for and elif. Write a python program to check whether the given number is positive, negative or zero. (10 Marks)
- What are functions? Define python function with parameter and return statement. Write a python function to generate the factorial of a number.

 (07 Marks)
 - b. Explain local and global scope with suitable example. (05 Marks)
 - c. Define exception handling. How exceptions are handled in python? Write a python program to solve divide by zero exception.

 (08 Marks)
- 3 a. Explain negative indexing, slicing, index(), append(), insert() and sort() method with suitable example. (12 Marks)
 - b. Write a python program to generate the following pattern using String center() method.

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(08 Marks)

- 4 a. What is dictionary? How it differs from list? Write a program to count the number of occurrences of each character in string.

 (08 Marks)
 - b. Define tuple data type. List out the differences between Tuple and list. Create a list of even numbers and convert it into a tuple. (06 Marks)
 - c. Write the output of the following:
 - (i) 'Hello'.upper.isupper()
 - (ii) 'Hello'.upper().lower()
 - (iii) '-'.join ('There can be only one'.split())

(06 Marks)

(06 Marks)

- 5 a. Describe Greedy, Non greedy pattern matching and findall() method of Regex object with suitable code snippet. (07 Marks)
 - b. Write a python program to demonstrate file reading and writing process.
 - c. List out the difference between shutil.copy() and shutil.copytree() method. Explain in brief move, rename is deleting files and folders in shutil module with example. (07 Marks)
- 6 a. Write a python program to extract the American phone number (eg. 415-555-4242) and email in a given string using Regular Expressions. (06 Marks)
 - Define assertions. Explain how assertions can be used in traffic light simulation with python code snippet.
 - c. List out the benefits of compressing a file. With code snippet, explain reading and extracting from a zip file. (07 Marks)

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| 7 | a. | Explain operator overloading with example. | (07 Marks) |
|----|----|--|-------------------|
| , | b. | Illustrate the concept of pure functions and modifier using python code. | (10 Marks) |
| | c. | Explain init() method with example. | (03 Marks) |
| 8 | a. | Define classes and objects in python. Create a class called Employee and i | nitialize it with |
| | | emp id, name and salary. Write the methods to set values for name, salary | and display the |
| | | employee details. | (08 Marks) |
| | b. | Illustrate the concept of inheritance with example. | (06 Marks) |
| | c. | Explain Type-based dispatch with example. | (06 Marks) |
| | | | |
| 9 | a. | What is JSON? Briefly explain the json module to read and write JSON | data with code |
| | | eninnet | (07 Marks) |
| | b. | Explain the process of downloading files from the web with the requests mo | dule and saving |
| | U. | downloaded files to the hard drive with suitable examples. | (08 Marks) |
| | c. | Write short notes on encrypting pdf files. | (05 Marks) |
| | ٠. | | |
| 10 | a. | Explain how to retrieve a web page element from a BeautifulSoup object | using select() |
| 10 | с. | Method. | (10 Marks) |
| | b. | Illustrate with example how do you create and save excel document. | (05 Marks) |
| | c. | With code snippet explain the process of reading data from a CSV file. | (05 Marks) |
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Fifth Semester B.E. Degree Examination, July/August 2021 UNIX Programming

Max. Marks:100 Time: 3 hrs.

With a neat diagram, describe the architecture of UNIX operating system. (08 Marks) Explain the following commands with example for each i) cat ii) mv iii) cp iv) wc. (08 Marks)

Note: Answer any FIVE full questions.

- Explain the different types of files supported by UNIX operating system. (04 Marks)
- With a neat diagram, describe the parent-child representation for file organization of UNIX (08 Marks) OS.
 - Differentiate absolute path names and relative path names with example for each. (08 Marks) b.
 - (04 Marks) Describe the importance of "root" and "su" command.
- With a neat diagram, describe the Shell's interpretive life cycle. (08 Marks) 3 a.
 - Define File Permission. Explain the relative and absolute mode of using "chmod" command (08 Marks) with example for each.
 - Describe "chown" and "chgrp" command with example for each. (04 Marks)
- Define Extended Regular Expression (ERE). Describe any four ERE used by grep and a. (10 Marks)
 - With example for each. Explain standard input and standard output with redirection. b. (10 Marks)

(08 Marks) With a neat diagram, describe the Memory Layout of a 'C' program.

- b. List and explain any four regular File API's.
 - Define the following:
 - Read lock i)
 - Write lock ii)
 - iii) Mandatory lock
 - iv) Advisory lock.

(04 Marks)

- With a neat block diagram, explain the process of launching and termination indicating role (08 Marks) of C-startup routine and exit handlers.
 - b. Explain the following system calls:
 - i) fork() ii) vfork() iii) exit() iv) waitpid().

(08 Marks)

(08 Marks)

Define race condition. Write a 'C' program to demonstrate the race condition.

(04 Marks)

- With the help of structure of accounting records defined in <sys/acct.h>. Describe the (10 Marks) process accounting supported by UNIX OS.
 - b. Define Interprocess Communication (IPC). List the different approaches supported by UNIX OS for InterProcess communication with explanation for any three. (10 Marks)
- a. Define pipes. Explain the Popen and Pclose function with example for each. (10 Marks)
 - Describe the semaphore and shared memory approaches for Inter Process Communication (10 Marks) (IPC).

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

| 9 | a. Define Signal. List and explain the conditions that generate signals. b. List and describe the disposition/action taken for the occurrence of a signal. c. Describe the purpose of the following signals along with the default action for each: i) SIGPOLL ii) SIGPWR iii) SIGXCPU iv) SIGXRES. (04 Marks) |
|----|--|
| 10 | a. Define Daemon process. Describe the characteristics of Daemon process. b. With a neat diagram, describe the error handling with respect to daemon process. c. List and explain the conventions followed with respect to daemon process. (08 Marks) (08 Marks) (04 Marks) |
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Fifth Semester B.E. Degree Examination, July/August 2021 Artificial Intelligence

Time: 3 hrs.

Max. Marks: 100

(06 Marks) (08 Marks) (06 Marks)

| | | Note: Answer any FIVE full questions. | |
|---|-----|--|--------------|
| | | | |
| 1 | a. | What is Artificial Intelligence? Explain. | (06 Marks) |
| | b. | A water jug problem: Two Jugs of 4L and 3L capacity (No marker on it). How of | |
| | ٠, | exactly 2L of water into 4L jug? Write both production rule and solution. | (10 Marks) |
| | c. | What is meant by uniformed search? Explain Depth-first-search strategy. | (04 Marks) |
| | | | |
| | | | |
| 2 | a. | What is an AI technique? Explain. | (06 Marks) |
| | b. | Write a note on Production System. | (06 Marks) |
| | c. | Crypt arithmetic problem: | |
| | | SEND | |
| | | + MORE | |
| | | MONEY | |
| | | Initial state: No two letters have same value. Sum of digits must be shown. | (08 Marks) |
| | | | |
| • | | P. I | (05.35 - 1-) |
| 3 | a. | Explain mapping between Facts and representation with example. | (05 Marks) |
| | b. | Explain Forward and Backward reasoning. Translate following into First Order Logic: | (05 Marks) |
| | C. | (i) All pompeins were Romans. | |
| | | (ii) All Romans are either loyal to Caesar or hated him. | |
| | | (iii) Everyone is loyal to someone. | |
| | | (iv) Was Macrus loyal to Caesar? | |
| | | (v) All pompeins died when the voleano errupted in 79AD. | (10 Marks) |
| | | | |
| | | | |
| 4 | a. | Explain Inheritable knowledge. | (06 Marks) |
| | b.4 | Consider following sentences: | |
| | | (i) John likes all kind of food. | |
| | | (ii) Apple and Chicken are food. | |
| | | (iii) Anything anyone eats and is not killed by is food. | |
| | | (iv) Bill eats peanuts and is still alive. | |
| | | (v) Sue eats everything bill eats. | (10.34 - 1.) |
| | | Using resolution prove that "John likes Peanuts". | (10 Marks) |
| | c. | Write a note on Matching. | (04 Marks) |
| | | | |

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

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a. Explain logics for Non-Monotonic reasoning.b. What is Bayesian Network? Explain semantics of it.c. Explain slot as full-fledged objects.

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| 6 | a. Explain implementation of Breadth-first search. | (08 Marks) |
| | b. State Baye's theorem. How it is used in statistical reasoning?c. Write a note on Semantic Nets. | (08 Marks) (04 Marks) |
| 19,000 | | W. Tell |
| 7 | a. Explain Conceptual dependency.b. What is global ontology? Explain. | (08 Marks) (06 Marks) |
| | c. Write about iterative deepening. | (06 Marks) |
| 8 | a. Explain CYC and its motivations. | (10 Marks) |
| | b. Explain Min Max search procedure. | (10 Marks) |
| 9 | a. Explain various steps in natural language understanding process. | (10 Marks) |
| | b. Write a note on Knowledge Acquisition. | (10 Marks) |
| 10 | a. Explain how decision trees are used in learning. | (06 Marks) |
| | b. What are the capabilities expected from expert systems.c. Explain the process of learning from examples. | (08 Marks) (06 Marks) |
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