Master of Computer Application
Third Semester Main Examination, December-2021
Web Technology [MCA303 (2)]

Time: 3:00 Hrs.   **Max Marks 70**

Note : Attempt any five questions. All question carry equal marks.

Q.1   (a) What is HTTP? What are HTTP request and response? Give the limitation of HTTP.
       (b) What do you mean by Meta tags? What is its use? Describe with example.

Q.2   (a) Describe the following :
       (i) HTML
       (ii) Classes of CSS
       (b) What is HTML form? How can you access the form data in php page? Explain with suitable examples.

Q.3   (a) Explain the Java Script and Data types.
       (b) Explain DTD and schema.

Q.4   (a) Explain the key components of the XML with suitable example.
       (b) Explain the PHP arrays with example.

Q.5   (a) Explain XSL and XSLT.
       (b)Explain AJAX components

Q.6   (a) What is Cookie? Explain the set cookies function in PHP with meaning of all the arguments.
       (b) Write a PERL program to accept the two numbers from the HTML form and display its sum.

Q.7   Describe the following (Any Three)
       (i) Web Service
       (ii) RSS
       (iii) Object and Arrays
       (iv) DNS
       (v) WWW.

Master of Computer Application
Third Semester Main Examination, December-2021
Soft Computing [MCA304 (2)]

Time: 3:00 Hrs   **Max Marks 70**

Note: **Attempt any five questions. All questions carry equal marks.**

Q.1   (a) What is artificial neural networking? Discuss its characteristics.
       (b) Compare between soft and hard computing .

Q.2   (a) Explain Adeline training model. Also discuss. Adeline network training algorithm.
       (b) Describe back propagation algorithm. List the stages involved in training of back propagation network.

Q.3   (a) Explain : (i) Bidirectional associative memories (BAM)
                   (ii) RBF Neural network
       (b) Write short note on Kohonen Network

Q.4   (a) What are fuzzy sets. Describe fuzzy set operation with examples.
       (b) What is Fuzzy inference system? describe constravaction and working principle of FIS.

Q.5   (a) What is Genetic algorithm. What are its applicaton.
       (b) Write a detailed note on parallel Genetic algorithm.

Q.6   (a) Define : (i) Linguistic variable
                   (ii) Linguistic hedges
       (b) Compare between ART network and CPH networks.

Q.7   Write short note on any three :
       (i) Lambda-cuts for fuzzy sets
       (ii) Madeline Network
       (iii) Fuzz decision making
       (iv) Rough set them.

Master of Computer Application
Third Semester Main Examination, December-2021
Distributed System [MCA305]

__Time: 3:00 Hrs.__   __Max Marks 70__

Note: **Attempt any five questions. All questions carry equal marks.**

Q.1   (a) What are Distributed System? Write advantages and disadvantages of distributed system over centralized system.
(b) What are the different ways to inter connect hardware in distributed system.

Q.2   (a) Explain the different types of distributed system.
(b) What is turned? Differentiate between process and threads.

Q.3   (a) How physical clocks are different from logical clocks. Why clock synecnnoization is necessary in distributed system.
(b) Describe various communication protocols used for remote procedure cells.

Q.4   (a) What are the requirements of distribution initial exclusion. Explain.
(b) Explain Ring Algorithm with example.

Q.5   (a) Describe user threads and kervel threads. Explain multi thaveading models with examples.
(b) Explain distributed transaction.

Q.6   (a) Explain CORBA
(b) Discuss the SUN networks file system.

Q.7   Write short note on any three :
i) DSM servers
ii) Java RMI
iii) OLE
iv) Orbit

Master of Computer Application
Third Semester Main Examination, December-2021
Data Mining [MCA301]

__Time: 3:00 Hrs.__   __Max Marks 70__

Note : Answer any five question. All question carry equal marks.

Q.1   (a) What do you mean Data Mining? Explain data type for data mining.
(b) Explain : -
(i) Relation Database
(ii) Data warehouse

Q.2   (a) What do you mean by Transactional database.
(b) Explain the advanced data base system and its application.

Q.3   (a) Distinguish the difference between OLAP and OLTP.
(b) Write down the application of data ware housing .

Q.4   (a) Explain in details data preprocessing.
(b) What is the purpose of apriori algotirham.

Q.5   Explain constrationg based associate mining.

Q.6   (a) Explain mining single Dimentrianal Boolean association rules from transational database.
(b) What do you mean by mining multilevel association rules.

Q.7   Write a short notes on :
(i) Clustering method
(ii) Issue rogation perdition

Master of Computer Application
Third Semester Main Examination, December-2021
Artificial Intelligence [MCA302]

Time: 3:00 Hrs   **Max Marks 70**

Note : Attempt any five questions.
All question carry equal marks.

Q.1   (a) Define Artificial intelligence. Also discuss its application.
         (b) What is LISP? What it is used in AI? Give same example of application built in LISP.

Q.2   (a) Explain Heuristic function. Give heuristic function for 8- puzzle problem.
         (b) Explain Hill climbing method. Compare with generate and test method.

Q.3   Explain:-
         (a)A* Algorithm
         (b) Branch and Bound technique

Q.4   (a) Discuss various problem in representing knowledge.
         (b) Explain Alpha-beta cutoff's in game playing with example.

Q.5   Parse the following sentence :
         (a) Bill printed the file
         (b) Sunil is good boy

Q.6   (a) Compare between recursive transition nets (RNT) and alimented transition net's.
         (b) Explain the Bayes theorem and Bayesian networks.

Q.7   Write short not on any three :
         (a) Rote learning
         (b) Application of expert system
         (c) Vidwan frame work
         (d) horn's clauses