

Hall Ticket No:

--	--	--	--	--	--	--	--	--	--

Question Paper Code: 18MCAP107

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA(2Yrs) I Year I Semester (R18) Supplementary End Semester Examinations – June 2019

(Regulations: R18)

OBJECT ORIENTED PROGRAMMING

Time: 3Hrs

Max Marks: 60

Attempt all the questions. All parts of the question must be answered in one place only.
In Q.no 1 to 5 answer either Part-A or B only

- Q.1(A) i) List out any four differences between Procedure Oriented Program and Object Oriented Program. 4M
ii) Explain Java Buzz words briefly. 8M
- OR**
- Q.1(B) Define Constructor? What are the different types of constructors and explain the parameterized constructor with an example. 12M
-
- Q.2(A) What are the similarities and differences between an Abstract Class and Interface? Discuss with an example. 12M
- OR**
- Q.2(B) Define Package and what are the steps involved in creating user defined package with an example. 12M
-
- Q.3(A) Write a Java program to create multiple threads by implementing Runnable Interface. 12M
- OR**
- Q.3(B) Write short note on the following. 12M
i) FileInputStream Class ii) FileOutputStream Class
iii) DataInputStream Class iv) DataOutputStream Class
-
- Q.4(A) Define HashSet class. Briefly discuss various constructors of HashSet class and write a Java program to demonstrate HashSet class. 12M
- OR**
- Q.4(B) Write a Java Program for accessing the attributes of a remote resource using URLConnection class. 12M
-
- Q.5(A) What is the role of tabbed pane? Explain it with an example. 12M
- OR**
- Q.5(B) Write a java program to handle mouse events. 12M

*** END***

Hall Ticket No:

--	--	--	--	--	--	--	--	--	--

Question Paper Code: 18MCAP108

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA(2Yrs) I Year I Semester (R18) Supplementary End Semester Examinations – June 2019

(Regulations: R18)

FULL STACK WEB DEVELOPMENT

Time: 3Hrs

Max Marks: 60

Attempt all the questions. All parts of the question must be answered in one place only.

In Q.no 1 to 5 answer either Part-A or B only

Q.1(A) Explain in detail about the elements of visual design. 12M

OR

Q.1(B) Explain how to build the web design using Mockups. 12M

Q.2(A) Explain in detail about the HTML Elements and Attributes with examples. 12M

OR

Q.2(B) Write short notes on CSS3 User Interface in designing the web page with example. 12M

Q.3(A) Describe in detail about JavaScript Objects with suitable examples. 12M

OR

Q.3(B) Write short notes on
(i) Bootstrap Grids 6 M
(ii) Bootstrap Themes 6 M

Q.4(A) What is Data Model? Explain in detail about the three data models in designing the databases. 12M

OR

Q.4(B) Explain how the CRUD operations are performed in Database Schemas with examples. 12M

Q.5(A) Explain in detail about the Event Loop and Emitters in Node JS. 12M

OR

Q.5(B) What is Module in Node JS? Explain how to create a module in Node JS with example. 12M

***** END*****

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA(2Yrs) I Year I Semester (R18) Supplementary End Semester Examinations – June 2019

(Regulations: R18)

INTRODUCTION TO MACHINE LEARNING

Time: 3Hrs

Max Marks: 60

Attempt all the questions. All parts of the question must be answered in one place only.

In Q.no 1 to 5 answer either Part-A or B only

- Q.1(A) i. Explain in detail how maximum likelihood hypothesis is the one that minimizes the sum of squared errors over the training examples. 6M
- ii. How do we design a learning system? 6M

OR

- Q.1(B) i. Discuss about least squared error method. 6M
- ii. Illustrate the concept of naive baye's classifier with an example. 6M

-
- Q.2(A) Predict the salary of a person with 10 years of experience by applying linear regression using least square method on given salary data. 12M

x- years' experience	Y -salary (in \$ 1000s)
3	30
8	57
9	64
13	72
3	36
6	43
11	59
21	90
1	20
16	83

OR

- Q.2(B) Briefly describe the classification processes using support vector machine. 12M

-
- Q.3(A) Explain various canonical cases for conditional independence. 12M

OR

- Q.3(B) What is Belief propagation in graphic models and how it will be used in Machine Learning? 12M

-
- Q.4(A) Explain K-means algorithm with an example. Describe the pros and cons of K-means in comparison with the K-medoids algorithm. 12M

OR

- Q.4(B) i. Compare the SCAN algorithm with DBSCAN. What are their similarities and differences? 6M
- ii. Describe about any two hierarchical clustering methods. 6M

-
- Q.5(A) Write the Backpropagation algorithm and explain its advantages. 12M

OR

- Q.5(B) What is artificial intelligence? Discuss the applications of artificial intelligence in real world. 12M

*** END***

Hall Ticket No:

--	--	--	--	--	--	--	--	--	--

Question Paper Code: 18MCAP110

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA(2Yrs) I Year I Semester (R18) Supplementary End Semester Examinations – June 2019

(Regulations: R18)

COMPUTER NETWORKS

Time: 3Hrs

Max Marks: 60

Attempt all the questions. All parts of the question must be answered in one place only.
In Q.no 1 to 5 answer either Part-A or B only

- Q.1(A) Compare and contrast connection-oriented and connection less service. 4M
With a neat layer structure, explain the functioning of OSI reference models. 8M
OR
- Q.1(B) Discuss in detail about classification of networks based on transmission Technology, size and scope. 12M
-
- Q.2(A) Explain briefly about Data link layer design issues. 12M
OR
- Q.2(B) Illustrates the calculation for a Data frame 1101011011 using the generator $G(x) = x^4 + x + 1$ and a check weather transmitted message is correct or not using Describe the cyclic redundancy check. 12M
-
- Q.3(A) Compare and contrast Datagram and virtual-circuit subnets. 4M
Discuss in detail about Internet control message protocol. 8M
OR
- Q.3(B) Define routing algorithm and routing table? 4M
Discuss Distance Vector Routing in detail. 8M
-
- Q.4(A) Discuss in detail about Domain naming system. 6M
With a neat sketch explain TCP segment header. 6M
OR
- Q.4(B) Explain the protocol scenarios for establishing a connection using three- way handshake. 12M
-
- Q.5(A) Explain in detail about DES. 12M
OR
- Q.5(B) Define encryption .Explain what are the different method for character-level encryption. 12M

***** END*****

Hall Ticket No:

--	--	--	--	--	--	--	--	--	--

Question Paper Code: 18MBA302

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA(2Yrs) I Year I Semester (R18) Supplementary End Semester Examinations – June 2019

(Regulations: R18)

INTRODUCTION TO DESIGN THINKING

Time: 3Hrs

Max Marks: 60

Attempt all the questions. All parts of the question must be answered in one place only.

In Q.no 1 to 5 answer either Part-A or B only

Q.1(A) Explain the process and utility of design thinking. 12M

OR

Q.1(B) How do you develop design thinking mindset? Explain. 12M

Q.2(A) What are the steps involved in empathy process? Discuss. 12M

OR

Q.2(B) What is the assessment tools used in design thinking? Explain. 12M

Q.3(A) Explain the impact of visuals on an individual understanding of the problem. 12M

OR

Q.3(B) What is mind-mapping? Mind-map your experiences of difficulties in travelling? 12M

Q.4(A) What is selection and grouping? Explain the criteria for selection. 12M

OR

Q.4(B) What do you mean by feasible and potential ideas? Explain the steps involved in bringing idea to life. 12M

Q.5(A) Is design thinking a team sport? Explain. 12M

OR

Q.5(B) Describe the layout of a project report, covering all relevant points. 12M

*** END***