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## MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA (2Y) I Year II Semester (R16) Regular & Supplementary End Semester Examinations – June 2018

(Regulations: R16)

### WEB TECHNOLOGY THROUGH JAVA

Time: 3Hrs

Max Marks: 50

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. Create HTML document with the following HTML tags 10M  
img, anchor, table, area, ordered and unordered list, meta and internal linking  
ii. Write a Java script program to validate the email address entered in the HTML form.

OR

- Q.1(B) i. Write short notes on event handling using Java script with an example. 10M  
ii. What are the advantage of XML Schema over XML DTD.

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- Q.2(A) Explain the classes and interfaces available in java.net.\* package for creating network based application. 10M

OR

- Q.2(B) Write a JAVA program to implement client and server communication. 10M

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- Q.3(A) i. Explain the life cycle of servlet. 10M  
ii. Explain the classes and interfaces available in javax.servlet.\* and javax.servlet.http.\* packages.

OR

- Q.3(B) i. What is web server? Write the steps in deploying servlet program in Apache Tomcat server. 10M  
ii. What is cookie? Write an example program that demonstrates the usage of cookies.

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- Q.4(A) i. Explain the different types of action tags available in JSP with an example. 10M  
ii. What is the difference between page directive include and <jsp:include>.

OR

- Q.4(B) i. Explain the different types of implicit objects in JSP. 10M  
ii. Explain the memory usage consideration in JSP application development.

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- Q.5(A) i. Explain the difference between Statement and Prepared Statement. 4M

- ii. What is the role of JDBC driver? Explain the different types of JDBC driver. 6M

OR

- Q.5(B) Create a friend database which has the information such as name, location and mobile number. Write a JSP application that accesses the friends database and retrieves all the information when user search for a friend by entering a name in a webpage. 10M

\*\*\* END\*\*\*

- Q.5(B) i. Explain the steps involved in connecting to MySQL from PHP code. 5M  
ii. Write a PHP application that validates the entered username and password by comparing it with data stored in MySQL database. 5M

**\*\*\* END\*\*\***

Hall Ticket No:

Question Paper Code: 16MCA111

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MCA(2Y) I Year II Semester (R16) Regular & Supplementary End Semester Examinations – June 2018

(Regulations: R16)

### JAVA PROGRAMMING

Time: 3Hrs

Max Marks: 50

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) Write short notes on java Architecture. 6M  
Define the Buzz Words of Java. 4M

OR

Q.1(B) Write short notes on conditional statements. Write a program to read the input in between 1 to 7 and display the output as weekdays. 10M

Q.2(A) What is a method? Explain various types of methods. 5M  
Write a program to find the factorial of given number with the help of method. 5M

OR

Q.2(B) With an example, Explain types of Inheritance. 10M

Q.3(A) Define interfaces in Java. Write a program for Hybrid interfaces. 10M

OR

Q.3(B) What is meant by threading in Java? Explain in detail with example program. 10M

Q.4(A) i. Write short notes on TypeWrappers. 5M  
ii. Write short notes on Thread LifeCycle. 5M

OR

Q.4(B) Write short notes on networking program. Write a program to display TCP/IP address. 10M

Q.5(A) Define various controls of Swings. Write a program to design a login screen. 10M

OR

Q.5(B) Write a swing program to design an E-Mail Registration form with action. 10M

\*\*\* END\*\*\*

Hall Ticket No:

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Question Paper Code: 16MCA407

**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE**

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MCA (2Y) I Year II Semester (R16) Regular & Supplementary End Semester Examinations – June 2018

(Regulations: R16)

**NETWORK SECURITY ESSENTIALS AND STANDARDS**

Time: 3Hrs

Max Marks: 50

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) Write short notes on 10M  
(i) Security services  
(ii) Feistel cipher structure

OR

Q.1(B) Explain in detail about various types of cyber attacks. 10M

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Q.2(A) Compare the Features of SHA-1 and MD5 algorithm. 10M

OR

Q.2(B) (i) Draw the general structure of DES and explain the encryption decryption process. 10M  
(ii) Mention the strengths and weakness of DES algorithm.

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Q.3(A) What is meant Certificate of Authority? Explain merits and de-merits 10M

OR

Q.3(B) i. Demonstrate the general structure of private key ring? 10M  
ii. Illustrate different approaches to public key management?

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Q.4(A) How encryption and authentication algorithms are used for following 10M  
(i) Authentication Header  
(ii) Encapsulation security payload Knowledge

OR

Q.4(B) Discuss how TLS include protocol mechanisms and services to enable two TCP users to 10M  
determine the security?

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Q.5(A) In the PGP scheme, what is the expected number of session keys generated before a 10M  
previously created key is produced? Explain.

OR

Q.5(B) Explain S/MIME Certificate Processing in detail. 10M

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Hall Ticket No:

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Question Paper Code: 16MBA439

**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE**

(UGC-AUTONOMOUS)

MCA (2Y) I Year II Semester (R16) Regular & Supplementary End Semester Examinations – June 2018

(Regulations: R16)

**E-BUSINESS**

Time: 3Hrs

Max Marks: 50

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) What is E-Business? Explain the advantages and disadvantages of E-Business. 10M

OR

Q.1(B) Explain how Porter's five force model can be used to identify e-business strategy. 10M

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Q.2(A) Distinguish between E-markets and Traditional market. 10M

OR

Q.2(B) Explain the E-procurement models in E-Business. 10M

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Q.3(A) Explain with suitable examples: 10M

- i. Middleware.
- ii. Remote procedure calls.

OR

Q.3(B) i. What is MOM? What type of application can it be used for? 10M

- ii. Explain MOM main features.

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Q.4(A) Explain the strategies for modernizing legacy systems. 10M

OR

Q.4(B) Explain Enterprise applications role in E-Business integration. 10M

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Q.5(A) Illustrate web services – service – oriented architecture with suitable example. 10M

OR

Q.5(B) Write a short notes on: 10M

- i. E-Business infrastructure.
- ii. Reliability and Quality considerations in E-Business.

\*\*\* END\*\*\*