

Hall Ticket No:

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

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA III Year I Semester (R18) Regular End Semester Examinations – Feb' 2021
(Regulations: R18)

AGILE SOFTWARE DEVELOPMENT PROCESS & DEVOPS

Max Marks: 60

Time: 3Hrs

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 System Development Life Cycle? Compare the Structured Analysis and Design (SAD) and Object-Oriented Analysis. 12M
- OR
- Q.1(B) Explain spiral software process model with it's advantages and limitations. 12M
-
- Q.2(A) Define agile software development process. Explain the benefits and principles of agile development in detail. 12M
- OR
- Q.2(B) Explain the User Story? What are the advantages of User stories over the traditional approaches of requirements gathering? 12M
-
- Q.3(A) What is Scrum? Explain each phase of Scrum in detail. 12M
- OR
- Q.3(B) Describe the Extreme Programming (XP) Framework in detail. 12M
-
- Q.4(A) What is the Lean Development? Explain briefly the Principles of Lean Development. 12M
- OR
- Q.4(B) What is Value Stream? Briefly explain the strategies to make it visible. 12M
-
- Q.5(A) Describe the second principle underlying DevOps. Discuss all five metrics to analyze the Customer Feedback. 12M
- OR
- Q.5(B) Write short notes on three of the following: 12M
- i) Continuous Feedback
 - ii) A/B Testing
 - iii) Technology Value Stream
 - iv) Continuous Learning and Experimentation.

*** END***

Hall Ticket No:

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

Question Paper Code: 18MCAP411

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA III Year I Semester (R18) Regular End Semester Examinations – Feb' 2021

(Regulations: R18)

CYBER SECURITY AND CYBER FORENSICS

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) What is meant by Cyber Security? Why Cyber Security is important? 12M

OR

Q.1(B) i). Define Cyber-attack? Discuss one real time attack. 12M
ii). Compare and contrast different types of Virus and Worms?

Q.2(A) i). What are the objectives of Cyber Security? 12M
ii). List and Explain Cyber Security Metrics

OR

Q.2(B) Explain about Cyber Security Management 12M

Q.3(A) List and Explain the Cyber Conflict Issues 12M

OR

Q.3(B) Explain Cyber Security's role in National Security 12M

Q.4(A) Outline the process of preparing to acquire digital evidence, processing an incidence or crime scene 12M

OR

Q.4(B) Discuss in detail about the systematic approach of conducting computer investigations in Organizations 12M

Q.5(A) Explain various investigation characteristics of Corporate Cyber Forensic Investigation 12M

OR

Q.5(B) Explain about the large scale data breach investigation process 12M

*** END***

Hall Ticket No:

Question Paper Code: 18MCAP415

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)

MCA III Year I Semester (R18) Regular End Semester Examinations – Feb' 2021
(Regulations: R18)

ADVANCED JAVA 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) What is JDBC? Explain the steps to connect to the Database Server. 12M
- OR
- Q.1(B) What is Resultset? How to retrieve the records from the Database explain with an example. 12M
-
- Q.2(A) What is Servlet? Explain the Life cycle methods of Servlet with an example. 12M
- OR
- Q.2(B) What is Session Tracking in Servlets? Write a program to handle HTTP Sessions in Servlet Programming. 12M
-
- Q.3(A) Explain different JSP tags used in Server Side Programming with an example. 12M
- OR
- Q.3(B) What is MVC Architecture? Draw and explain the advantages of MVC in dynamic programming. 12M
-
- Q.4(A) What is meant by PageDirective and explain its types with examples. 12M
- OR
- Q.4(B) Explain different Implicit objects with a program to demonstrate all objects. 12M
-
- Q.5(A) What is meant by Dependency Injection in Spring Framework explain in detail with example. 12M
- OR
- Q.5(B) What is Spring? Explain its features and how useful for j2EE Applications. 12M

*** END***

Hall Ticket No:

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

Question Paper Code: 18MBAP434

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)

MCA III Year I Semester (R18) Regular End Semester Examinations – Feb' 2021
(Regulations: R18)

E-BUSINESS

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) What is E-Business? Explain how E-Business is different from conventional business. 12M

OR

Q.1(B) Highlight the key issues that affect businesses who have adopted the internet as a means of trading or improving internal processes. 12M

Q.2(A) Describe the functions and features of electronic payment systems. 12M

OR

Q.2(B) Explain the strategies used by firms for E-Marketing. 12M

Q.3(A) Transaction oriented middleware can be a good match for application integration- Justify the statement. 12M

OR

Q.3(B) Explain the difference among Synchronous Remote Procedure Calls and Asynchronous Message Oriented Techniques. 12M

Q.4(A) Leading and efficient organizations have been leveraging the information sharing and flow efficiencies offered by the Internet through one or more of the strategies. Explain those strategies. 12M

OR

Q.4(B) How is business rule recovery and knowledge mining related to componentization activities? 12M

Q.5(A) Explain the various forms of legal and ethical issues related to E-Business. 12M

OR

Q.5(B) Explain the latest developments in network security protocols. 12M

*** END***

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA III Year I Semester (R18) Regular End Semester Examinations – Feb' 2021

(Regulations: R18)

MANAGEMENT INFORMATION SYSTEMS

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) Describe how information systems have changed the way businesses operate their products and services. 12M

OR

Q.1(B) How do one can develop a strategic advantage for their own business? And how do information systems contribute to strategic advantages. 12M

Q.2(A) What are the problems of managing data resources in a traditional file environment and how are they solved by a database management system? 12M

OR

Q.2(B) How can Databases be used to improve Business performance and Decision making. 12M

Q.3(A) Explain the core activities in the systems development process. 12M

OR

Q.3(B) Elucidate the principal methodologies for modeling and designing systems. 12M

Q.4(A) Explain in detail about the tools and technologies that are opted by an organization to protect information resources. 12M

OR

Q.4(B) What is the role of information systems in helping people working in a group and make decisions more efficiently. 12M

Q.5(A) What ethical, social, and political issues are raised by information systems? 12M

OR

Q.5(B) Explain the principal sources of poor system performance and describe why it is so difficult to hold software services liable for failure or injury. 12M

*** END***