

MASTER OF COMPUTER APPLICATIONS

MCA - IV SEMESTER

Internal Assignment Questions(Theory)



PROF. G. RAM REDDY CENTRE FOR DISTANCE EDUCATION

(Recognised by the Distance Education Bureau, UGC, New Delhi.)

OSMANIA UNIVERSITY, HYDERABAD – 500 007 Telangana State INDIA

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Dear Students,

All the students of **Master of Computer Application(MCA) IV - Semester** has to write 2 Assignments for each paper and submit **Assignment** for each paper compulsorily. Each assignment carries **30 marks**. University Examinations will be held for **70 marks**. The concerned faculty evaluates these assignment scripts. The marks awarded to you will be forwarded to the Controller of Examination, OU for inclusion in the University Examination marks. If you fail to submit Internal Assignments before the stipulated date, the internal marks will not be added to University examination marks under any circumstances. **The assignment marks will not be accepted after the stipulated date.**

You are required to **pay Rs.500/- fee** towards Internal Assignment marks through online <http://oucde.net> and **submit the payment receipt along with assignment** at the concerned counter **on or before Last date of Exam Fee Date** and obtain proper submission receipt.

ASSIGNMENT WITHOUT THE PAID RECEIPT WILL NOT BE ACCEPTED

Assignments on Printed / Photocopy / Typed papers will not be accepted and will not be valued at any cost. Only hand written Assignments on A/4 size paper (one side only) will be accepted and valued.

Methodology for writing the Assignments:

1. First read the subject matter in the course material that is supplied to you.
2. If possible read the subject matter in the books suggested for further reading.
3. You are welcome to use the PGRRCDE Library on all working days including Sunday for collecting information on the topic of your assignments.
(10.30 am to 5.00 pm).
4. Give a final reading to the answer you have written and see whether you can delete unimportant or repetitive words.
5. The cover page of the each theory assignments must have information as given in FORMAT below.

FORMAT

a. NAME OF THE COURSE :

b. NAME OF THE STUDENT :

c. ENROLLMENT NUMBER :

d. NAME OF THE PAPER :

e. DATE OF SUBMISSION :

6. Write the above said details clearly on every assignment paper, otherwise your paper will not be valued.
7. Tag all the assignments paper-wise and submit.
8. Submit the assignments on or before **Last date of Exam Fee Date** at the concerned counter at PGRRCDE, OU on any working day and obtain receipt.

DIRECTOR

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INTERNAL ASSIGNMENT QUESTION PAPER – 2024
MCA - IV SEMESTER
ASSIGNMENT – I

Paper : PE-411 **Block Chain Technologies**

Answer the following questions (each question Five marks) **3 x 5 = 15**

Total Marks: 15

Answer the following short questions (each question Five marks) **3 x 5 = 15**

- 1.Explain about Merkle tree [5]
- 2.Explain Elliptic Curve Digital Signature Algorithm (ECDSA). [5]
- 3.Differentiate between Centralization and Decentralization. [5]

ASSIGNMENT – II

Paper : PE-411 **Block Chain Technologies**

Answer the following questions (each question Five marks) **3 x 5 = 15**

Answer the following short questions (each question Five marks) **3 x 5 = 15**

- 1.Explain about The Bitcoin Network. [5]
- 2.Explain about Wallets and Exchanges, Payment Services [5]
- 3.Discuss about Applications of Block Chain Technologies. [5]

Name of the Faculty : **MrsT.S.Savita**
College : **TMV (Women's University)**

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INTERNAL ASSIGNMENT QUESTION PAPER – 2024
MCA - IV SEMESTER
ASSIGNMENT – I

Paper : **PE-412**

Deep Learning

Total Marks: 15

Answer the following questions (each question Five marks)

3 x 5 = 15

- 1.(a) Explain about linear regression and forward propagation [5]
(b) Write brief on optimization algorithms.
2. Discuss about Convolutional Neural Networks [5]
3. Give the overview of Recurrent Neural Networks [5]

ASSIGNMENT – II

Paper : **PE-412**

Deep Learning

Total Marks: 15

Answer the following questions (each question Five marks)

3 x 5 = 15

1. What is computer vision? Explain about the object detection and bounding boxes? [5]
2. List and explain tools for Deep Learning [5]
3. What are Residual Networks(Resnet) and Generative Adversial Networks? Explain their applications. [5]

Name of the Faculty : Dr. .Satyanarayana
Department: CSE, UCE, OU

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INTERNAL ASSIGNMENT QUESTION PAPER – 2024
MCA - IV SEMESTER
ASSIGNMENT – I

Paper : PE-421

Digital Forensics

Total Marks: 15

Answer the following questions (each question Five marks)

3 x 5 = 15

1. Define the Digital forensics and different types of digital forensics used in a digital forensic investigation? [5]
2. What is the process flow for conducting a Digital Forensics Invetigation? [5]
Provide examples for each process step.
3. Explain the procedure for corporate High-Tech investigations and how we recover the digital evidence and give one example of Corporate High -tech digital forensic investigation [5]

ASSIGNMENT – II

Paper : PE-421

Digital Forensics

Total Marks: 15

Answer the following short questions (each question Five marks)

3 x 5 = 15

1. What are the steps in Data acquisition and different storage formats of digital evidence ? [5]
Briefly explain on how to perform RAID data acquisition
2. How do you process the digital/cyber crimes and explain the mobile crime incident management? [5]
3. List out the latest software and hardware cyber forensics tools and describe each tool's usage in cyber investigation. [5]

Name of the Faculty : **Dr. Krishnaiah Dayala.**
Department: CSE, UCE, OU

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INTERNAL ASSIGNMENT QUESTION PAPER – 2024
MCA - IV SEMESTER
ASSIGNMENT – I

Paper : **PE-422**

Optimization Techniques

Total Marks: 15

Answer the following short questions (each question Five marks)

3 x 5 = 15

- 1.Explain about art of modeling for optimization techniques [5]
 - 2.Write a deep explanation on Kuhn-Tucker Conditions [5]
 - 3.Differentiate between Convexity function and Concavity functions. [5]
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ASSIGNMENT – II

Paper : **PE-422**

Optimization Techniques

Total Marks: 15

Answer the following short questions (each question Five marks)

3 x 5 = 15

- 1.Explain about types of multistage decision problems [5]
- 2.Write a short explanation Concept of cutting plane method [5]
3. Explain about Multi level optimization on direct and indirect search. [5]

Name of the Faculty : **Dr. Baddepaka Prasad**

College : **CVR College of Engineering**

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INTERNAL ASSIGNMENT QUESTION PAPER – 2024
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ASSIGNMENT – I

Paper : OE-431

CONSTITUTION OF INDIA

Total Marks: 15

Answer the following questions (each question Five marks)

3 x 5 = 15

- 1) Explain the making of Indian Constitution and discuss its salient features. [5]
- 2) Discuss the nature of Fundamental Rights, as compared to Directive Principles.
Explain the scope of Freedom of Speech and Expression in the Indian
Constitution. [5]
- 3) Discuss the powers of the President of India. [5]

ASSIGNMENT – II

Paper : OE-431

CONSTITUTION OF INDIA

Total Marks: 15

Answer the following questions (each question Five marks)

3 x 5 = 15

- 1) Explain the composition and powers of the State Council of Ministers. [5]
- 2) Analyse the Constitutional Amendments of 73rd and 74th on a Local Self
Government in India. [5]
- 3) Explain the powers and functions of the Election Commission. [5]

Name of the Faculty : **Prof.G.B.Reddy**
College : Univ.College of Law, OU.

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INTERNAL ASSIGNMENT QUESTION PAPER – 2024
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ASSIGNMENT – I

Paper : OE-432

Organization Behaviour

Total Marks: 15

Answer the following questions (each question Five marks)

3 x 5 = 15

1. a) Define MBO.
b) What are Centralization, Decentralization, and Recentralization of authority. [5]
 2. a) Write a note on Big 5 Personality Traits.
b) Define Group Dynamics. [5]
 3. What is Parkinson's Law? Explain. [5]
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ASSIGNMENT – II

Paper : OE-432

Organization Behaviour

Total Marks: 15

Answer the following questions (each question Five marks)

3 x 5 = 15

1. Explain Hawthorne's experiment on Human relations theory. [5]
2. Elaborate the Johari's window of organization behavior. [5]
3. Distinguish between Organization culture and Organization Climate. [5]

Name of the Faculty : **Dr. Chinta Vani**
College : Dept. of CSE, UCE, OU.

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INTERNAL ASSIGNMENT QUESTION PAPER – 2024
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ASSIGNMENT – I

Paper : **OE-433 Intellectual Property Rights and Cyber Law**

Total Marks: 15

Answer the following questions (each question Five marks)

3 x 5 = 15

1. Explain the meaning, nature and classification of Intellectual Property. [5]
 2. Describe the salient features of the TRIPs Agreement. [5]
 3. Define Copyright. Discuss the rights of Authors and owners of copyright including digital copyright ? [5]
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ASSIGNMENT – II

Paper : **OE-433 Intellectual Property Rights and Cyber Law**

Total Marks: 15

Answer the following questions (each question Five marks)

3 x 5 = 15

1. What are the functional characteristics of a Trademark? Discuss different kinds of Trademarks. [5]
2. Analyse the concept of Patent. Explain the patentable subject matter and rights of the Patentees [5]
3. Define e-commerce and explain its models. How is the cyber security ensured in e-commerce transactions and payments ? [5]

Name of the Faculty : **Prof.G.B.Reddy**
College : Univ.College of Law, OU.