

MASTER OF COMPUTER APPLICATIONS

MCA-III YEAR

Internal Assignment Questions



2023

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 MCA III Year students has to write 2 Assignments for each paper and submit **Assignment** for each paper compulsorily. Each assignment carries **20 marks**. University Examinations will be held for **80 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 19th February, 2023** 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 **19th February, 2023** at the concerned counter at PGRRCDE, OU on any working day and obtain receipt.

DIRECTOR

**MCA – III YEAR
E-COMMERCE
ASSIGNMENT – I**

PAPER: CDE-301

Total Marks: 20

SECTION – A

Unit – I : Answer the following short questions (each question two marks) 5 x 2 = 10

1. (a) Explain the various revenue models for selling on the web.
(b) Differentiate between emotional and rational Marketing.
2. (a) Differentiate between Traditional and Electronic E-Commerce.
(b) Write about Internet protocols.
3. (a) what is SWOT Analysis ? Explain in detail
(b) Explain in detail HTML Tags.
4. Explain the various EDI transactions.
5. Explain the various revenue models for selling on the Web

SECTION B

Unit – II : Answer the following short questions (each question two marks) 5 x 2 = 10

1. What is a Firewall? What are the limitations of firewalls?
 2. Write short notes on: Electronic cash and Electronic Wallets
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**MCA – III YEAR
E-COMMERCE
ASSIGNMENT – II**

PAPER: CDE-301

Total Marks: 20

SECTION – A

Unit – I : Answer the following short questions (each question two marks) 5 x 2 = 10

1. (a) Explain the significance of E-commerce
(b) Explain value and supply chain.
2. (a) What are the various categories of E-Commerce based on the parties involved in a transaction?
(b) What is XML? What are the advantages of XML over HTML?
3. Explain the concept of packet switched networks.
4. Differentiate between intranet and extranet.
5. (a) Describe the Advertising supported Revenue models.
(b) Briefly describe the revenue Strategy Issues

SECTION B

Unit – II : Answer the following short questions (each question two marks) 5 x 2 = 10

1. (a) Define Cryptography. What are the data security services for which Cryptography may be used?
(b) Explain clearly the role of public and private keys in asymmetric encryption.
2. (a) Write short notes on: Payment cards and Electronic cards.
(b) Describe the strategies for developing E-Commerce web sites.

**MCA – III YEAR
CLIENT SERVER PROGRAMMING
ASSIGNMENT – I**

PAPER: CDE-302

Total Marks: 20

SECTION A

Unit – I : Answer the following short questions (each question two marks) 5 x 2 = 10

1. What are the data types in Java ? Explain
2. Write a java program to add 1...100 natural numbers.
3. What are access modifiers in Java ? Explain
4. Differentiate between abstract class and interface
5. Discuss about applet life cycle.

SECTION B

Unit – II : Answer the following short questions (each question two marks) 5 x 2 = 10

1. Explain about control structures using an example to each.
2. What are layout managers in AWT ? Explain

PAPER: CDE-302

**CLIENT SERVER PROGRAMMING
ASSIGNMENT – II**

Total Marks: 20

SECTION – A

Unit – I : Answer the following short questions (each question two marks) 5 x 2 = 10

1. What are life cycle methods of servlets ?
2. Define a session bean. Give an example.
3. Write the architecture of DOM
4. Discuss the services of CORBA
5. What are Application servers ? Give Example

SECTION B

Unit – II : Answer the following short questions (each question two marks) 5 x 2 = 10

1. Discuss about Entity Beans with its life cycle
2. Explain the architecture of CORBA and RPC.

**MCA – III YEAR
SOFTWARE QUALITY TESTING
ASSIGNMENT – I**

Paper: **III CDE 303**

Total Marks: **20**

SECTION – A

Unit – I : Answer the following short questions (each question carries two marks) **5 x 2 = 10**

1. Explain 'ESHIKAWA' seven basic Quality tools.
2. What is path testing? How are path selected and tested?
3. Discuss the non-parametric 'PTR' model.
4. What are NICE and UGLY domains? Explain.
5. Explain KV charts and Decision Tables.

SECTION – B

Unit – II : Answer the following questions (each question carries five marks) **2 x 5 = 10**

1. Discuss various Data-Flow testing strategies and Anomalies.
2. Describe 'HALSTEAD's metrics. What are the weaknesses of his work?

**MCA – III YEAR
ASSIGNMENT – II**

SOFTWARE QUALITY TESTING

Paper: **III CDE 303**

Total Marks: **20**

SECTION – A

Unit – I: Answer the following short questions (each question two marks) **5 x 2 = 10**

1. Define software Quality. Explain about product quality metrics.
2. What are the different models of testing? Explain.
3. Explain transaction flow testing techques?
4. Explain about the Taxonomy used for Bugs.
5. Explain split & merge.

SECTION – B

Unit – II: Answer the following questions (each question carries five marks) **2 x 5 = 10**

1. Explain the concept of path and domain boundary predicates in Domain Testing
2. Explain matrix node reduction algorithm for obtaining path expression.

Name of the Faculty: **RAVIKIRAN B**
College/Dept: **VIVEKANANDA GOVERNMENT DEGREE COLLEGE /**
Department of Computer Science

**MCA – III YEAR
WEB PROGRAMMING
ASSIGNMENT – I**

PAPER: CDE-304

Total Marks: **20**

SECTION – A

Unit – I : Answer the following short questions (each question carries two marks) **5 x 2 = 10**

1. Explain about HTTP
2. Discuss about File Transfer Protocol
3. What is VB Script
4. Explain APACHE Web Server
5. Discuss about CGI.

SECTION – B

Unit – II : Answer the following questions (each question carries five marks) **2 x 5 = 10**

1. Explain about Forms ? to give one example
2. Discuss about VB Script Functions

**MCA – III YEAR
WEB PROGRAMMING
ASSIGNMENT – II**

PAPER: CDE-304

Total Marks: **20**

SECTION – A

Unit – I : Answer the following short questions (each question two marks) **5 x 2 = 10**

1. What is PERL
2. Discuss about CLR
3. What is Garbage Collection
4. Illustrate Visual C#
5. Discuss about Visual Basic .NET Controls

SECTION – B

Unit – II : Answer the following questions (each question carries five marks) **2 x 5 = 10**

1. Explain about Web Server control Templates
2. Discuss about ADO.NET Object Model ?

Name of the Faculty : **G.Ranganath Rao**
College/Dept : PG College, Secunderabad