

POSTGRADUATE DIPLOMA IN COMPUTER APPLICATIONS

PGDCA - II SEMESTER

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

DIRECTOR

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Dear Students,

All the students of **Post Graduate Diploma in Computer Application PGDCA II - 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 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.

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PGDCA - II SEMESTER

ASSIGNMENT – I

Computer Networks

Paper : _PC-201 IT

Total Marks: **30**

SECTION – A

Unit – I : Answer the following short questions (each question carries Three marks)

Marks 6 x 3 =**18**

1. Briefly explain about OSI reference model with neat diagram and Functions of each layer?
2. Explain in detail about transmission media standards, Applications with neat diagram?
3. Briefly explain about CRC & Hamming distance with neat diagram and example?
4. Explain about Ethernet LAN: IEEE802.3 LAN with all the features and diagram?
5. Briefly explain about subnetting Class B & Class C address space with examples?
6. write short notes on IP V4 and IP V6 including Header formats with examples?

SECTION – B

Unit – II : Answer the following questions (each question carries Six marks)

2 x 6 = **12**

1. Explain about TCP & UDP with multiplexing concepts?
2. Write short notes on a) FTP b) WWW

Name of the Faculty :**P.Subhashini**

College/Dept: MVSR EnggCollege,CSED

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PGDCA - II SEMESTER

ASSIGNMENT – II

Computer Networks

Paper : PC 201 IT

Total Marks: **30**

SECTION – A

Unit – I : Answer the following short questions (each question carries Three marks) 6 x 3 = **18**

1. Briefly explain about Digital Encoding Techniques and explain Digital to Analog encoding techniques with example 01110100011?
2. Explain in detail about topologies advantages, disadvantages, and features with neat diagram?
3. Briefly explain about Stop and wait protocol & sliding window protocol?
4. Explain about Ethernet LAN: IEEE802.11 Architecture and diagram?
5. Briefly explain about Classification IP addressing with Public and Private Network?
6. Explain about Routing algorithms with examples?

SECTION – B

Unit – II : Answer the following questions (each question carries Six marks) 2 x 6 = **12**

1. Explain about Congestion control with neat diagrams?
2. write short notes on a) DNS b) SMTP

Name of the Faculty **P.Subhashini**

College/Dept :MVSR Engg College CSE

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ASSIGNMENT-I
PGDCA - II SEMESTER
OBJECT PROGRAMMING USING JAVA

PAPER : PC 202 IT

Marks : 6 x 3 = 18

SECTION-A

Answer all the following questions

- 1 Write shortly on JVM, JRE and JIT compilers
- 2 What is an exception handling ? Explain
- 3 Discuss about List interface and Iterator class
- 4 Explain the methods of File Class
- 5 What do you mean by AWT Even
- 6 Write a program to reverse a given number using while loop.

SECTION-B

Answer all the following questions

Marks : 2 x 6 = 12

1. Describe about interfaces and packages
2. Explain about stream Class and Reading Console.

PGDCA – II SEMESTER
ASSIGNMENT-II
OBJECT PROGRAMMING USING JAVA

PAPER : PC 202 IT

Marks : 6 x 3 = 18

SECTION-A

1) Answer all the following questions

- 2) Write the applet lifecycle with neat diagram?
- 3) Write the thread lifecycle with neat diagram?

4) Write the collection interface?

- | | | |
|------------------------|---------------------------|-----------------------|
| (i) Iterable interface | (ii) Collection interface | (iii) List interface |
| (iv) Queue interface | (v) Set interface | (vi) De-que interface |

5) write the collection classes?

- | | | | |
|----------------|------------------|----------------|---------------------|
| (i) Array list | (ii) Linked List | (iii) Hash set | (iv) Linked Hashset |
| (v) TreeSet | (vi) Stack | (vii) Vector | (viii) Array Deque |

6) write the java input/output

- | | | | |
|----------------------|---------------------|------------|------------|
| (a) FileOutputStream | (b) FileInputStream | (c) Writer | (d) Reader |
| (e) FileWriter | (f) FileReader | | |

SECTION-B

Answer all the following questions

Marks : 2 x 6 = 12

1. Explain about serialization and de-serialization ?
2. Explain about Layout managers how layout managers are helpful while creating menu driven components ?

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**PGDCA - II SEMESTER
ASSIGNMENT – I**

Software Engineering and Object Oriented Analysis & Design

Paper : **PC 203 IT**

Total Marks: **30**

SECTION – A

Answer the following short questions (each question carries Three marks) 6 x 3 = **18**

1. Define software engineering? What are the characteristics of software engineering?
2. Explain the Incremental model with diagram?
3. Briefly explain the different phases of rational unified process
4. What is software requirement specification?
5. What is DFD? Explain the types of DFD's?
6. Explain the 3 views of architecture?

SECTION – B

Answer the following questions (each question carries Six marks)

2 x 6 = **12**

1. Draw the diagram and explain the components of a traditional waterfall life cycle model?
2. Is documentation required for architecture? Explain in detail?

Name of the Faculty: **Mohd. Naqueeb Ahmad**

College/Dept: Lords Institute of Engg&Tech

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PGDCA - II SEMESTER
ASSIGNMENT – II

Software Engineering and Object Oriented Analysis & Design

Paper : PC 203 IT

Total Marks: **30**

SECTION – A

Answer the following short questions (each question carries Three marks) Marks 6 x 3 = **18**

1. Define COUPLING and COUPLING?
2. What do you meant by object oriented design? Explain.
3. Explain class diagram with an example?
4. Define testing and test case?
5. What are the types of acceptance testing explain?
6. What are the relationships used in UML? Explain.

SECTION – B

: Answer the following questions (each question carries Six marks) Marks 2 x 6 = **12**

1. Explain the case study of ATM with use case and sequence diagram?
2. Explain in detail about Unified Software Development Process?

Name of the Faculty: **Mohd. Naqueeb Ahmad**
College/Dept: Lords Institute of Engg. & Tech

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PGDCA - II SEMESTER
ASSIGNMENT – I
WEB PROGRAMMING

Paper : PC 204 IT

Total Marks: **30**

SECTION – A

Unit – I: Answer the following short questions (each question carries Three marks) 6 x 3 = **18**

1. How DHTML and HTML differ from each other?
2. What are the different types of lists in HTML?
3. Define Event model with an example.
4. State Error Handling.
5. Differentiate between Null value and undefined value in JavaScript
6. Describe the scoping rules for java script.

SECTION – B

Unit – II: Answer the following questions (each question carries Six marks)

2 x 6 = **12**

1.
 - a) With the neat block diagram explain the CSS Box Model.
 - b) Write a JavaScript code to validate a user by considering username as “ABC” and password as “XYZ”. Assume username and password is getting from the form element.
2.
 - a) What is DOM? Draw the detailed DOM objects structure. Explain its usage.
 - b) Write a program to demonstrate ONMOUSEMOVE and ONCLICK.

Name of the Faculty : **K KEERTHI**

College/Dept : **OU PGRRCDE**

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PGDCA - II SEMESTER
ASSIGNMENT – II

Web Programming

Paper : **PC 204 IT**

Total Marks: **30**

SECTION – A

Unit – I : Answer the following short questions (each question carries Three marks) 6 x 3 = **18**

1. Distinguish recursion and iteration global functions?
2. How collections are differing from collections?
3. What to do we need to deploy a web server?
4. How wamp and xamp servers are configured?
5. Is CGI script or program? Justify.
6. What are the arguments that are used frequently in Perl?

SECTION – B

Unit – II : Answer the following questions (each question carries Six marks)

2 x 6 = **12**

1.
 - a) Write a program to demonstrate math object in javascript.
 - b) Explain data types and control structures?
2.
 - a) What types of primary data structures are supported in Perl? Discuss.
 - b) Describe String Processing and Regular Expressions.

Name of the Faculty : **K KEERTHI**
College/Dept : **OU PGRRCDE**

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