

P.G. DIPLOMA IN COMPUTER APPLICATIONS

PGDCA – II SEMESTER Internal Assignment Questions



2021

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

(A University with Potential for Excellence and re-accredited by NAAC with 'A+' grade)

PROF. G. RAM REDDY CENTRE FOR DISTANCE EDUCATION

Dear Students,

All the I semester students of PG Diploma in Computer Application 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.300/- 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 13th June, 2021** 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 **13th June, 2021** at the concerned counter at PGRRCDE, OU on any working day and obtain receipt.

Prof.Chintha Ganesh
DIRECTOR

ASSIGNMENT-I
PGDCA – II SEMESTER – PAPER - 1
COMPUTER NETWORKS – PC 201 IT

Answer all the following questions

Marks : 30

1. Explain About Encoding Techniques With Examples (5)
 2. Discuss About Network And Topologies (5)
 3. Explain About The Implementation Of Sliding Window Protocol (Swp) (5)
 4. Routing Algorithms (5)
 5. What Are 3 Kinds Of Tcp Timers, And Explain (5)
 6. File Transfer Protocol (Ftp) (5)
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ASSIGNMENT-I
PGDCA – II SEMESTER – PAPER - 2
OBJECT PROGRAMMING USING JAVA – PC 202 IT

Answer the following short questions

Marks : 30

1. Write java features or Buzzword (6)
 2. Write the difference between **class and object ,method overloading and method overriding,** (6)
 3. Write the difference between **class and abstract class ,abstract class and interface** (6)
 4. Explain why multiple inheritance is not supported in java through example? (6)
 5. What is Exception and different types Exception in java through example ? (6)
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ASSIGNMENT-I
PGDCA – II SEMESTER – PAPER - 3
SOFTWARE ENGINEERING AND OBJECT ORIENTED ANALYSIS AND DESIGN – PC 203 IT

Answer all the following questions

Marks : 30

- 1) a) What is software engineering? What are the characteristics of software? (3)
b) What are the problems in information system development? (3)
 - 2) What are functional and non functional requirements: explain in detail? (6)
 - 3) a) Explain Extreme Programming And Agile Process? (3)
b) Explain rational unified process model? (3)
 - 4) Explain Data Flow Diagrams and ER diagrams in detail? (6)
 - 5) a) Define cohesion and coupling? (3)
b) Explain structured design methodology? (3)
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ASSIGNMENT- I
PGDCA – II SEMESTER – PAPER - 4
WEB PROGRAMMING – PC 204 IT

Answer all the following questions

Marks : 30

1. Discuss about creation of basic forms and complex forms can be linked. (6)
2. What is Cascading Style Sheets (CSS) with the help of suitable examples. (6)
3. What is meant by object referencing (3)
 - (a) Explain about collections (3)
 - (b) Discuss about ONCLICK, ONFOCUS, ONBLUR. (3)
4. Describe filters and transitions with suitable examples. (6)
5. (a) Write a javascript program to reverse of a given number at runtime. (3)
(b) Differentiate between While Loop and for loop with suitable examples. (3)

ASSIGNMENTS – II
PGDCA – II SEMESTER – PAPER - 1
COMPUTER NETWORKS – PC 201 IT

Answer all the following questions **Marks : 30**

1. Explain About two types of transmission medium (5)
2. Explain About RS232C Protocol (5)
3. Write about IEEE 802.11 Architecture and 10.3 and Frame Format (5)
4. Describe the Classification of IP addressing with examples (5)
5. Explain UDP Operation (5)
6. SIMPLE MAIL TRANSFER PROTOCOL (SMTP) (5)

ASSIGNMENT-II
PGDCA – II SEMESTER – PAPER - 2
OBJECT PROGRAMMING USING JAVA – PC 202 IT

Answer the following short questions (each question carries five marks) **Marks : 30**

- 1) Write the applet lifecycle with neat diagram? (6)
- 2) Write the thread lifecycle with neat diagram? (6)
- 3) Write the collection interface? (6)
(i) Iterable interface (ii) Collection interface (iii) List interface (iv) Queue interface
(v) Set interface (vi) De-que interface
- 4) write the collection classes? (6)
(i) Array list (ii) Linked List (iii) Hash set (iv) Linked Hashset
(v) TreeSet (vi) Stack (vii) Vector (viii) Array Deque
- 5) write the java input/output (6)
(a) FileOutputStream (b) FileInputStream (c) Writer (d) Reader
(e) FileWriter (f) FileReader

ASSIGNMENT-II
PGDCA – II SEMESTER – PAPER - 3
SOFTWARE ENGINEERING AND OBJECT ORIENTED ANALYSIS AND DESIGN – PC 203 IT

Answer all the following questions **Marks : 30**

- 1) Draw a class diagram and explain with an example? (6)
- 2) What UML modeling element has its behavior partly described by a state chart? (6)
- 3) Define testing? Explain different levels of testing in detail? (6)
- 4) a) Explain two testing approaches in detail? (3)
b) What are the four types of software maintenance explain? (3)
- 5) a) Explain different types of relationships in UML with their symbols? (3)
b) Explain the activity diagram with an example? (3)

ASSIGNMENT – II
PGDCA – II SEMESTER – PAPER - 4
WEB PROGRAMMING – PC 204 IT

Answer all the following questions **Marks : 30**

1. With an example explain how parameters are passed to functions in JavaScript. (6)
2. (a) What is the use of event handlers and explain different types of event handlers (3)
(b) Build a JavaScript which accepts the text in lower case and displays the text in uppercase. (3)
3. Explain about database connectivity with PHP with suitable examples (6)
4. Explain (6)
(a) Explain about Servlet. Explain Life cycle of Servlet illustrate (3)
(b) Explain the method of Deployment of Servlet with Tomcat? (3)
5. What is XML parser ? Explain (6)
(a) Active server pages (3)
(b) CGI and PERL5 (3)

