P.G. DIPLOMA IN COMPUTER APPLICATIONS

Internal Assignment Questions

2018

PROF. G. RAM REDDY CENTRE FOR DISTANCE EDUCATION
(RECOGNISED BY THE DISTANCE EDUCATION BUREAU, UGC, NEW DELHI)
OSMANIA UNIVERSITY
(A University with Potential for Excellence and Re-Accredited by NAAC with "A$^+$" Grade)

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 **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.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 15th October, 2018** 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 **15th Oct., 2018** at the concerned counter at PGRRCDE, OU on any working day and obtain receipt.

Prof.Chintha Ganesh

DIRECTOR

ASSIGNMENT-I
PGDCA – II SEMESTER
VISUAL PROGRMMING – CS 851

Marks : 20

Answer all the following questions

1. Write about parts of Visual C++ Program. Explain about MFC Classes

2. Write a program to handle mouse events in Visual C++ / VB

3. Describe about Dialogbox, RadioButtons, ListBoxes

4. I) Explain about Filehandling techniques in VC++ / VB. Desribe about DLL's

   ii) Write short notes on Active X Controls Discuss about Database Connection in VC++ / VB

ASSIGNMENT-I
DATA BASE MANAGEMENT SYSTEMS – CS 852

Marks : 20

Answer all the following questions

1. What are the functions of DBA ? Explain Key constraints in DBMS. Explain the terms i) Entities ii) Entity Sets iii) Relationship iv) Relationship sets.

2. Define Normalization. Explain 1NF, 2NF and 3NF with examples

3. i) Differentiate between Network data model and hierarchical data model in detail.

   ii) Write DDL, DML, DCL Commands. What are views ?

4. Explain ARIES & ACID Properties.

ASSIGNMENT-I
DATA STRUCTURES– CS 853

Marks : 20

Answer all the following questions

1. Write a program for stack implementation using arrays. What is the difference between stacks and queues

2. Write a program for polynomial arithmetic using linked lists

3. Write a program for queue implementation using linked lists.

4. I) Write short note on representation of binary trees.

   ii) Explain about AVL trees with examples. Write a program for quick sort

ASSIGNMENT-I
INTERNET & INTRANET PROGRAMMING – CS 854

Marks : 20

Answer all the following questions

1. What are the building blocks of web applications ? Explain how ODBC and DGI are integrated ?

2. Discuss about control statements in java with an example to each.

3. Define an exception. Write a Java program to implement Exception handling.

4. Write the use of firewall in information servers. Discuss about the use of chat servers.

ASSIGNMENTS – II
PGDCA – II SEMESTER
VISUAL PROGRAMMING – CS 851

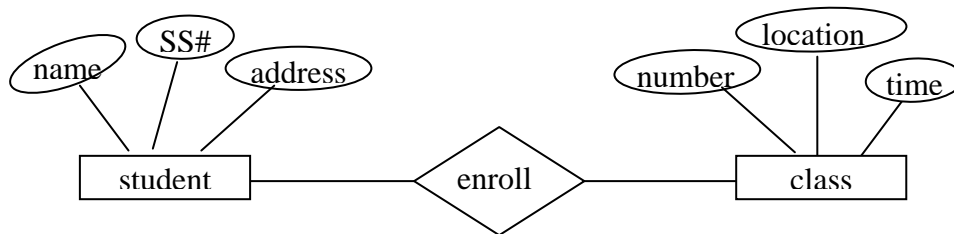**Marks : 20**

Answer all the following questions
1. Write detail procedure in VB to access database using ODBC and DSN.

2. Discuss about different control statements and data types in VB

3. Write about the following
   - (a) Database Objects
   - (b) Class Wizards in VC++
   - (c) DLL's in VC++
   - (d) OLE Technology.

   Give an example for each of the above.

4. Explain the steps involved in creating SDI/MDI applications using application wizards..

Assignment - II
DATABASE MANAGEMENT SYSTEMS – CS 852

Marks : 20

Answer all the following questions
1. Explain the working of shadow paging. What are the necessary and sufficient conditions for occurring deadlock.
2. What is hashing ? What are the different types of hashing ? What are the advantages of hashing
3. Construct a B+ tree for the following set of key values and there are three pointers in each node [4,9,17,36,22,39]
4. Transform the following E-R diagram into a tree-structure diagram?

Assignment - II
DATA STRUCTURES – CS 853

Marks : 20

Answer all the following questions
1. Explain the different asymptotic notations used in Analysis of algorithm.
2. Write a program for implementing quick sort
3. Write a program for polynomial arithmetic using linked lists.
4. Write a program for binary search. Write short notes on B-trees

Assignment - II
INTERNET AND INTRANET – CS 854

Marks : 20

Answer all the following questions
1. Discuss the control statements in Java.
2. How mail servers are implemented ? Explain it with an example.
3. Give the overview of AWT controls. What is an exception ? Demonstrate the use of customized exceptions.
4. I) What is inheritance ? Explain its use. Ii) Describe multithreaded programming concept.