Computer Science
(330)
Tutor Marked Assignment

Maximum marks: 20

Note:

    I.   **All questions are compulsory. The marks allotted for each question are given alongside the questions.**

   II.   **Write your name, enrolment number, AI name and subject on the first page of the answer sheet.**

1. **Answer any one of the following questions in about 40-60 words.**   **2**

    i.   HR of a company wants to send an e-mail regarding Invitation for Interview to multiple candidates simultaneously. She wants to send it in a way that no candidate should know about who else is being called for the Interview. Suggest her a way to send the e-mail.   (See Lesson 7)

    ii.   Arrange the following units of memory in ascending order of storage capacity.
Gigabyte, Kilobyte, Terabyte, Megabyte, Petabyte   (See Lesson 1)

2. **Answer any one of the following questions in about 40-60 words.**   **2**

    i.   How do Compilers differ from Interpreters in the way they convert the High Level Language Code (Source Code) into Machine Code(Object Code).   (See Lesson 3)

    ii.   Evaluate the following C++ expressions: (See Lesson 12)
        a) int x=7;
           x+=2;
        b) int a, b=3, c=4;
           a= b*2/3+c/2*3;

3. **Answer any one of the following questions in about 40-60 words.**   **2**
    i.   Change the following [Finger Pointing "You"] statements in a more subtle way using assertive communication skills: (See Lesson 29)
        a) You have written a poor Assignment. Go and write it again.

b) How many times do I need to explain the same concept? Can't you understand in the first go.

ii. One of the most important skills an entrepreneur must have is the soft skills. List out any four major skills that come under soft skills. (See Lesson 28)

4. Answer any one of the following questions in about 100-150 words.   **4**

i. Data processing consists of activities grouped into four functional categories that are necessary to transform data into meaningful information, often referred to as the Data Processing Cycle. Briefly explain this cycle using a suitable flow diagram. (See Lesson 22)

ii. Discuss Free and Open Source Softwares (FOSS)? List out the major benefits of using FOSS. (See Lesson 11)

5. Answer any one of the following questions in about 100-150 words.   **4**

i. Explain the following terms briefly using suitable examples: (See Lesson 13)
   a) Data Encapsulation
   b) Inheritance

ii. Write the Output/ Find Errors in the following code snippets. (See Lesson 12)
   a) Write the output:

```
#include<iostream.h>
void main()
{
int a=12, b=25;
a>b ? cout<<"a is max" : cout<< "b is max";
}
```

   b) Write the output:

```
#include<iostream.h>
void main()
{
float a=10, b=27;
int c;
c=(a+b)/2;
cout<<c;
}
```

c) Underline the Error:

```
#include<iostream.h>
void main()
{
int x,  y ,z;
cin>>x>>y;
z= X+Y;
cout>>z;
}
```

d) Underline the Error:

```
#include<iostream.h>
void main()
{
int a, b, c;
cin>>a>>b;
c= a-b;
cout>>z;
}
```

6. Answer any one of the following questions   **6**

i. Riya wants to purchase an assembled desktop computer.   (See Lesson 1, 3)
   a) What major hardware devices/ components she should ensure to be assembled?
   b) Which software she must get installed initially (for the very first time) so that the desktop computer becomes functional?
   c) She wants to transfer data from her laptop to this desktop. Which portable small storage device she may use?
   d) Which output device she should purchase and connect with her desktop if she wants to listen to songs?
   e) She installed MS office in her desktop. Which type of software it is?
   f) She wants to convert her notes on "Components of a Computer" into digital form (editable). What input device she should use?

ii. Cloud Computing is a buzz word in today's world.Elaborate upon the advantages of Cloud Computing? Also differentiate between SaaS, PaaS and IaaS with suitable examples.   (See Lesson 26)