

M.Sc. Sem.-1 Examination

404

Bio-Informatics

January-2024

Time : 2-30 Hours]

[Max. Marks : 70

Qu1 : A) Briefly explain about flowcharts and pseudocodes using examples. [7 marks]

B) Briefly explain variables and data types in C using appropriate examples [7 marks]

OR

Qu1 : A) Briefly explain all the operators in C using examples. [7 marks]

B) Write a program to input 3 nos and print the larger of the 3 nos. [7 marks]

Qu2 : A) Briefly explain for loop in C using examples [7 marks]

B) Write a program to input a number and print whether it's a prime number [7 marks]

OR

Qu2 : A) Briefly explain break and continue statements using examples [7 marks]

B) Write a program to input a number between 1 and 100 using a do ... while loop [7 marks]

Qu3 : A) Briefly what are arrays in C using examples. [7 marks]

B) Write a program to input numbers in 2 arrays of 5 elements and print whether they are the same or not [7 marks]

OR

Qu3 : A) Briefly explain two dimension arrays in C using examples. [7 marks]

B) Write a program to input a string and reverse it [7 marks]

Qu4 : A) Briefly explain the list tags in HTML using examples. [7 marks]

B) Briefly explain how images are used in html using examples [7 marks]

OR

Qu4 : A) Briefly explain what is CSS using examples. [7 marks]

B) Briefly explain tables in HTML using examples [7 marks]

Qu5: Answer any 7 of the following : [14 marks]

1. Given the code :

`int a=3, i;``for(i=1;i<=3;i++);``printf("%d %d",a, i);`

predict the output _____

2. Given the code:

`int a=1, i=1;``int arr[5]={1,2,3,4,5};``for(a=5;i>=0;i--)``printf("%d ",arr[i]);`

predict the output _____

3. Given the code :

`int i=0,j=1,k;``for(i=0,j=1,k=i+j;k<100; k=i+j,i=j,j=k)``printf("%d ",k);`

- predict the output _____
4. Given the code :


```
char ch;
printf("Enter a character : ");
scanf("%c",&ch);
printf("%d", ch+32);
```

 predict the output if the user enters 'X' _____
 5. Given the code :


```
int arr[10]={0,1,2,3,4,5,6,7,8,9};
int i,j=0;
for(i=1;i<10;i++)
    arr[j]+=arr[i];
for(i=0;i<10;i++)
    printf("%d ",arr[i]);
```

 predict the output _____
 6. Given the code :


```
char str[25]="Bioinformatics";
int n=1;
for(n=0;str[n]!='\0';n+=2)
    printf("%c",str[n]);
```

 predict the output _____
 7. Given the code :


```
int i, j;
for(i=1;i<5;i++)
{
    for(j=1;j<i;j++)
        printf("%d",j);
    printf("\n");
}
```

 predict the output _____
 8. Given the code:


```
int arr[3][2]={{11,22},{33,44},{55,66}};
```

 The command to show second element in the third row is : _____
 9. Write the internal css to set the background of the p element to lightblue
 10. Write the code to show "Bioinformatics" written in p element in italics and underlined
 11. Write the code to include the main.css an external css file in page1.html
 12. Write the code to create a list as below :
 - a. Magnet
 - b. Wire
 - c. Bulb
 - d. Batteries