Graphic Era Hill University, Dehradun
(Answer Sheet for Online Examination Aug. 2021)

Please tick (√) your campus: (DEHRADUN/BHIMTAL/HALDWANI)

Name: ..Gaurav Shahi.. Univ.Roll No. ..2023053..... Student ID...20051058.....
Date: 27/08/2021. Course: ..B.Sc.-I.T... Branch: ..D.Dun.. Sem.: ...2.... Section: ....B.....
Subject Name: ..Operating..System..Practical Subject Code: ..PBI-202 Page No. ..1.....

Q.1

Sol

```
#include <stdio.h>
#include <conio.h>
#define max 25
void main()
{
int frag[max], b[max], f[max], i, j, nb, nf, temp;
static int bf[max], ff[max];

printf("\n\t Memory Management Scheme - Worst fit");
printf("\n Enter the number of blocks: ");
scanf("%d", &nb);
printf("Enter the number of files: ");
scanf("%d", &nf);
printf("\n Enter the size of blocks:-\n");
for(i=1; i<=nb; i++)
{
printf("Block %d:", i);
scanf("%d", &b[i]);
}
printf("Enter the size of the files:-\n");
for(i=1; i<=nf; i++)
{
printf("File %d:", i);
scanf("%d", &f[i]);
}
for(i=1; i<=nf; i++);
}
```

Signature of Student

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Date: 27/08/2021 Course: BSc. I.T. Branch: D.Don Sem.: 2 Section: B
Subject Name: Operating System Practical Subject Code: PBI-202 Page No. 2

```
for(j=1; j<=nb; j++)
{
if (bf[j] != 1)
{
temp = b[j] - f[i];
if (temp >= 0)
{
ff[i] = j;
break;
}
}
}
frag[i] = temp;
bf[ff[i]] = 1;
}
printf("\n file_no:\t file_size :\t Block_no :\t Block_size:\t fragement");
for (i=1; i<=nf; i++)
printf("\n %d\t\t %d\t\t %d\t\t %d\t\t %d", i, f[i], ff[i], b[ff[i]], frag[i]);
```

Gaurav
Signature of Student

```
12  printf("Enter the number of files:");
13  scanf("%d",&nf);
14  printf("\nEnter the size of the blocks:-\n");
```

```
        Memory Management Scheme - First Fit
Enter the number of blocks:3
Enter the number of files:2

Enter the size of the blocks:-
Block 1:5
Block 2:2
Block 3:7
Enter the size of the files :-
File 1:1
File 2:4

File_no:        File_size :     Block_no:       Block_size:     Fragement
1               1               1               5               4
2               4               3               7               3

...Program finished with exit code 0
Press ENTER to exit console.
```