Bharati Vidyapeeth's College Of Engg. For Women, Pune Department Of Information Technology

rw. v...v. 0 - ----v.

Unit Test I (Sem I) 2011-12

Subject: Computer Organization	Class:SE
Marks: 30	Duration: 1 Hour
Q1. Draw and explain Von Neumann architecture.	6
Q2. Explain the following terms.	4
a. System bus	
b. Program Counter	
Q3. Explain basic instruction cycle.	4
Q4.Draw and explain hardware implementation of Booth's algorithm.	8
Q5. Explain Booth's algorithm to multiply the following numbers:	
Multiplicand = +15	
Multiplier = - 6	8

Bharati Vidyapeeth's College Of Engg. For Women, Pune

Department Of Information Technology

Unit Test II (Sem I) 2011-12

Subject: FDS Class: SE IT

Marks: 50 Duration: 1.30 Hour

1. Write output of each pass of merge sort for the following list:

2. Show output of each pass using bucket sort to arrange the following numbers in ascending order.

- 3. Explain binary search with suitable example.
- 4. What is space complexity of an algorithm ?Explain its importance with example.

(8)

(8)

5. Analyze time complexity of the following code segments: (4)

```
a. int process (int no)
{
    if (no<=0)
        return(0);
    else
        return (no + process(no-1));
}
b. for ( i =1; i<=n; i++)
    for ( j=1; j<=m; j++)
        for ( k=1; k<=p; k++)
        x=x+1;</pre>
```

- 6. Describe the following declarations: (10)
 - a. int *p[5];
 - b. int **q;
 - c. float (*p) (int no);
 - d. int (*q) [3];
 - e. int * fun1 (int *x);
- 7. Write a C program to accept ,display and find topper from a list of n students, using functions. (8)

Bharati Vidyapeeth's College Of Engg. For Women, Pune Department Of Information Technology

Unit Test II (Sem II) 2010-11

Subject: HSS Class: SE

Marks: 50	Duration: 1.30 Hour
Q 1. What is social change? Explain properties of social change. Important .	Why social change is 8M
Q 2. Write a short note on health care and health development in	India 8M
Q 3. ExplainTransportation in India	6M
Q 4. Explain different types of non conventional energy sources?	Explain any two in detail.
Q 5. Explain strategies for industrial developement.	8M
Q 6. Explain the importance of environmental education	4M
Q 7. Write a short note on soil degradation	8M
OR	
Q 8. What is the need of planning in economic development of Inc	dia 8M