

Roll No

MCSE-204**M.E./M.Tech. II Semester**

Examination, December 2017

System Programming*Time : Three Hours**Maximum Marks : 70*

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) Explain the Design of assembler in detail. 7
b) What is Macro? Explain with suitable example. 7
2. a) Represent the output for the various phases of compiler with respect to following example. 7

$$x = y + z + 1 * 5$$

 b) How many tokens are generated by given statements? 7

```
int main ()
{
    int a = 20; c = 25;
    Printf("Sum is %d", a + c);
    return 0;
}
```
3. a) Explain the various data structure used for implementing the symbol table and compare them. 7
b) Explain the register allocation techniques. 7

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4. a) How RPC work in Heterogeneous environments explain. 7
b) Discuss about various design issues in distributed operating system. 7
5. Explain the following term: 14
a) Machine optimization
b) Data dependence
6. a) How Access matrix is implemented describe. 7
b) Discuss the concept of process synchronization. 7
7. Why Distributed File System and Distributed Shared Memory is required in Distributed Operating System. 14
8. a) Explain term cryptography and fault tolerance. 7
b) Explain the File System of UNIX operating system. 7

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