MCA 3rd Sem
System Programming
Subject Code: MCA 305A
Paper ID:

15/19/17

(M)

Time allowed: 3 Hrs

Important Instructions:

Max Marks: 60

- **All questions are compulsory**

PART A (2×10)

Q. 1.   Short-Answer Questions: All COs
    (a) Define Macro.
    (b) How compiler is different from Interpreter?
    (c) What is regular grammar?
    (d) Define boot strap loader.
    (e) What is function of device driver?
    (f) List various machine independent features of operating system.
    (g) What is dynamic linking?
    (h) What id the need of device drivers?
    (i) What are distributed operating systems?
    (j) Define Lexical analysis.

PART B (8×5)

Q. 2.   Explain in details the steps in the design of an assembler.   CO1

OR

    a)   Explain different kinds of addressing modes in assembly language.   CO1
    b)   What is macro? How macro calls within a macro can be implemented?

Q. 3.   What is text editor? Explain different types of editors.   CO2

OR

Write a short note on : a) Platform Independent Systems   b) YACC   CO2
c) Booting Techniques.

Q. 4.   What do mean by code optimization? Write various techniques for code   CO3
optimization.

OR

What is Compiler? Describe in detail various phases of compiler design.   CO3

Q. 5.   What is Operating System? Explain different types of operating systems and   CO4
its functions?

OR

What do you mean by Process Management? Explain different kinds of   CO4
scheduling queues and schedulers.

Q. 6.   What is an Operating System? Explain how OS manages the devices attached   CO5
to a system?

OR

What are distributed operating systems? Explain its features and how it is   CO5
different from Network Operating System?