

16/12/2015



Roll No

--	--	--	--	--	--	--	--

No. of Printed Pages: 2

DOON UNIVERSITY, DEHRADUN
Final Semester Examination, Dec-2015
School of Technology

MCA (Integrated) Program
First Semester
Course: STM-503 [Computer Fundamentals]

Time Allowed: 3Hours

Maximum Marks: 50

Note: Question paper is divided into three sections A, B & C. Attempt all the questions. Marks distribution is given alongside. Follow the instruction as given in each section.

SECTION: A

(10*1=10)

Que-1 Attempt any ten of the following:

- (i) Draw a flow chart of adding 2 nos.
- (ii) What is micro computer? Give its advantages & disadvantages.
- (iii) Write down the seven layers of OSI.
- (iv) How many types of memory are there in Computers to store data?
- (v) What is Data Communication? What are the different types of network?
- (vi) What is meaning of 100 and T in 100BaseT?
- (vii) _____ is a step by step procedure involved in solving any problem.
- (viii) Write the BIOS checking procedure at the time of booting a computer?
- (ix) _____ languages which are understood by the machine.
- (x) _____ program is the converted program of a assembly language.
- (xi) In _____ cable transmit data as pulses of light which are generated by lasers.
- (xii) USB full form is _____
- (xiii) _____ is a special program/software which is used for translating a high level language program into machine language.

SECTION: B

Attempt all of the following. Write your answer in about 250 Words.

(5*4=20)

Que-2 Differentiate between static and dynamic RAM.

Que-3 What do you understand by MIS? Write a note on Applicability of Computers in Business Data Processing

Que-4 What is Network Topology? Discuss about STAR, Mess, Bus and Ring Topologies.

OR

Draw a block diagram of a computer. Explain the function of each of the blocks.

Que-5 In the context of magnetic disk storage, define the following terms and give the relationship among them (if any)

- a) Track b) Cylinder
c) Sector d) Disk address.

OR

Differentiate Windows and Linux Operating System.

Que-6 What is Operating System? What are the main functions of Operating Systems?

SECTION: C

Attempt all of the following. Write your answer in about 750 Words.

(4*5=20)

Que-7 What is Internet? Write the history of evolution of Internet.

Que-8 Explain the characteristics of each generation's computer.

OR

What do you understand by e-Commerce? Describe the fundamental advantages and disadvantages of e-Commerce, as compared to traditional commerce

Que-9

- (a) What is a utility program? List out some of the commonly tasks performed by utility programs.
(b) What is algorithm & flow chart?

Que-10 Write short notes on:

- a) Search Engines
b) Machine Level Language
c) System Software
d) Database Systems
e) Cloud based Storage

.....