5. Attempt <u>any two</u> of the following:- 10×2=20

(a) What is data transmission? How many types of transmission mode? Explain each of them with example in detail?

(b) What is an algorithm? What are the characteristics necessary for a sequence of instructions to qualify an an algorithm? Write an algorithm for sum of 1 to 10 numbers?

(c) What is pseudocode? Why it is so called? Discuss the advantages and limitations of pseudocode?

—x—

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*2941 *   NBC-102

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID :294102

Roll No.

MCA (Dual Degree)

(SEM-I) SPECIAL CARRY OVER THEORY EXAMINATION, 2015-16

COMPUTER FUNDAMENTALS

Time : 3 Hours]   *[Total Marks : 100*

Note: (1)   All questions are compulsory.

(2)   All questions carry equal marks.

1.   Attempt <u>any four</u> parts of the following:-   5×4=20

(a) Explain some important characteristics of a computer?

(b) What are advantages of transistors over vacuum tubes?

(c) List the advantages of IC technology over transistor technology?

(d) Differentiate between the characteristics of primary and secondary storag of a computer system?

(e) Differentiate between input output devices? Why I/O devices are necessary for a computer system?

(f) What are the five basic operations performed by any computer system?

2. Attempt any four parts of the following:-   5×4=20

(a) What is printer? diferentiate between impact and non impact printers?

(b) What is computer program? Define terms of Hardware and Software?

(c) Define and differentiate among compiler, interpreter, assembler?

(d) Define and differentiate between volatile non volatile memory?

(e) What is cache memory? How it is differ from a primary memory?

(f) Write short notes on:

   (i) CD-ROM

   (ii) DVD

3. Attempt any two parts of the following:-   10×2=20

(a) What is generation in computer terminology? How many generations are there? Explain in detail?

(b) What is operating system? What are services of operating system? Why it is necessary for a computer system?

(c) Define and differentiate between uniprogramming and multiprogramming system. What are their relative advantages and disadvantages?

4. Attempt any two parts of the following:-   10×2=20

(a) What is computer network? What do you understand by LAN, MAN and WAN? Explain with examples?

(b) What is Internate? What are the main characteristics of Internet? What are basic services of Internet? Explain Each of these services helps the Imternet users?

(c) Write short notes on the following: (Any four)

   (i)   URL

   (ii) HTML

   (iii) HTTP

   (iv) WWW

   (v)   FTP