Code: CBCS11

Roll No.

## CBCS for PG Semesters-I Examinations-2017 Computer Fundamentals

Time: 2 Hours

Max Marks: 76

- Write your Roll No. on the top immediately on receipt of the question paper.
- Attempt ALL questions by selecting any TWO parts. All questions carry equal marks.
- Explain the followings:-.
  - Representation integer number in Computer Memory
  - Unicode and ASCII. ii.
  - Carry out the following conversions -

- Briefly explain any two input and any two output devices. Is there any device which acts as an input as well as an output device? If yes, name the device(s).
- Explain full adder with the help of logic diagram and truth table.
  - What is Multiplexer? Explain. Also, explain XOR gate.
    - Explain regions and eache mamory, their advantages and need.
- What is functionality of Imperative Language? Explain with help of suitable (a) examples.
  - Explain the concepts of Object Oriented Programming. Also explain how is it (b) different from procedural programming languages.
  - Explain Machine Language and High Level Language with the help of examples. (C) Also, Discuss their advantages and disadvantages, if any.
- What is real time operating system? How does it differ from normal operating (a) system? Give examples.
  - Explain the following:-(b)
    - Process, thread and program
    - Process state and process control block
  - Explain the following concepts:
    - Multithreading and Multiprogramming OS
    - Multitasking and Multiprocessing OS
  - Discuss Network Topologies with their advantages and disadvantages, if any. (a)
    - What is a Computer Network? Explain the different type of Computer Networks. OCA Also, explain about the firewall.
      - How to develop Website using HTML? Explain with the help of one example. (c)