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Total No. of Pages : 02

Total No. of Questions : 07

B.Sc.(IT) (2013 & 2014) (Sem.-4)**MICROPROCESSOR SYSTEM****Subject Code : BS-206****Paper ID : [B0415]****Time : 3 Hrs.****Max. Marks : 60****INSTRUCTION TO CANDIDATES :**

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **SIX** questions carrying **TEN** marks each and a student has to attempt any **FOUR** questions.

SECTION-A**Q1. Answer briefly :**

- a) Discuss the role of a microprocessor.
- b) Compare digital and analog signals.
- c) What is meant by positional number system?
- d) List the role of address bus.
- e) Discuss the need of addressing mode.
- f) How DRAM is different from RAM?
- g) Why fetch operation is required?
- h) Briefly list the benefits of idle state.
- i) What is the concept of Read cycle?
- j) Write a short note on BCD representation.

SECTION-B

- Q2. Discuss the features of following types of languages :
- a) Assembly language.
 - b) High level language.
- Q3. What is meant by data representation? How integer and floating point numbers are represented? Explain.
- Q4. Discuss the following :
- a) Registers in 8085 and their role.
 - b) Instruction types.
- Q5. Compare the following :
- a) Relative and Direct addressing mode.
 - b) EPROM and Dynamic RAM.
- Q6. How timing and control unit is used for executing an instruction cycle? Explain.
- Q7. Write short notes on the following :
- a) Binary arithmetic.
 - b) Interrupts.