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SEAT No. _____

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SARDAR PATEL UNIVERSITY
F.Y.B.B.A (ITM) Examination, Semester – I (CBCS) (NC)
Computer Organization
UM01EBBI05

Date: Thursday 25th October, 2018
Time: 02:00 p.m. to 04:00 p.m.

Total Marks: 60

- Q. 1 [A]** Explain Binary, Octal and Hexadecimal Number System in detail. **[09]**
- [B]** Explain following in detail with suitable examples. **[06]**
1. Signed and Magnitude Method
 2. 2^{'s} Complement Method
- OR**
- Q. 1 [A]** List out various character codes and explain ASCII code & EBCDIC code in detail. **[07]**
- [B]** Solve the Following Problems: **[08]**
- a) $(111)_8 = (?)_{10}$
 - b) $(110011)_2 = (?)_{10}$
 - c) $(B2B)_{16} = (?)_8$
 - d) $(128)_{10} = (?)_2$
- Q. 2** Explain following in detail **[15]**
- a) NAND Gate
 - b) OR Gate
 - c) NOR Gate
 - d) AND Gate
 - e) XOR Gate
- OR**
- Q. 2** Explain De Morgan's First and Second Theorem in detail. **[15]**
- Q. 3** Explain the following in detail: **[15]**
- a) Pipeline Machine
 - b) Data Path Cycle
 - c) Array Processor
- OR**
- Q. 3 [A]** Write a note on: **[10]**
- a) Direct Addressing
 - b) Indirect Addressing
- [B]** List out steps of Fetch Decode Cycle. **[05]**

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(PTO)

Q. 4 Explain following: [15]
a) Flatbed Scanner
b) Laser Printer
c) Mouse

OR

Q. 4 [A] Define: Memory. Explain RAM and ROM in detail. [10]
[B] Write a note on: Floppy Disk [05]

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—O—
(2)