

(136)

SEAT No. _____

No. of Printed Pages | 9

SARDAR PATEL UNIVERSITY
F.Y.B.B.A (ITM) Examination, Semester – I (CBCS) (New Course)
Computer Organization
UM01DBB124

Date: Monday 29th October, 2018

Time: 02:00 p.m. to 04:00 p.m.

Total Marks: 60

Q. 1 [A] Explain Binary Number System, Octal Number System 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] Solve the Following Problems: [08]

- a) $(101)_8 = (?)_{10}$
- b) $(101011)_2 = (?)_{10}$
- c) $(2B)_{16} = (?)_8$
- d) $(128)_{10} = (?)_2$

[B] List out various character codes. Explain ASCII code in brief. [07]

Q. 2 [A] Explain following in detail [09]

- a) NAND Gate
- b) OR Gate
- c) XOR Gate

[B] Explain De Morgan's First Theorem in detail. [06]

OR

Q. 2 [A] Explain following in detail [09]

- a) AND Gate
- b) NOR Gate
- c) XNOR Gate

[B] Explain De Morgan's Second Theorem in detail. [06]

Q. 3 Explain the following in detail: [10]

- a) Pipeline Machine
- b) Array Processor

[B] Explain Von Neumann Machine in brief. [05]

OR

Q. 3 [A] Write a note on: [10]

- a) Direct Addressing
- b) Immediate Addressing

[B] List out steps of Fetch Decode Cycle. [05]

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(P.T.O.)

- Q. 4 [A] Define: Scanner. Explain various types of scanner in brief. [10]**
[B] Write a note on: Keyboard [05]

OR

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

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