## SARDAR PATEL UNIVERSITY F.Y.B.B.A (ITM) Examination, Semester – I (CBCS) (New Course) Computer Organization UM01DBBI24

Date: Monday 29<sup>th</sup> October, 2018

| Time: | 02:00 |   | Total Marks: 60 | )   |
|-------|-------|---|-----------------|-----|
| Q. 1  | [A]   | Explain Binary Number System, Octal Number System Hexadecimal Number system in detail.                        |                 | 9]  |
|       | [B]   | Explain following in detail with suitable examples.  1. Signed and Magnitude Method  2. 2's Complement Method | [00             | 6]  |
|       |       | OR  |                 |     |
| Q. 1  | [A]   | Solve the Following Problems:<br>a) $(101)_8 = (?)_{10}$<br>b) $(101011)_7 = (?)_7$                           | [0]             | 8]  |
|       | ÷     | b) $(101011)_2 = (?)_{10}$<br>c) $(2B)_{16} = (?)_8$<br>d) $(128)_{10} = (?)_2$                               |                 |     |
|       | [B]   | List out various character codes. Explain ASCII code i  | in brief. [0    | 7]  |
| Q. 2  | [A]   | Explain following in detail  a) NAND Gate b) OR Gate c) XOR Gate  | [0]             | 9]  |
|       | [B]   | Explain De Morgan's First Theorem in detail.  | [0]             | 6]  |
|       |       | OR  |                 |     |
| Q. 2  | [A]   | Explain following in detail   | [0:             | 9]  |
|       |       | <ul><li>a) AND Gate</li><li>b) NOR Gate</li><li>c) XNOR Gate</li></ul>  |                 |     |
|       | [B]   | Explain De Morgan's Second Theorem in detail.   | [0              | 6]  |
| Q. 3  | •     | Explain the following in detail:  a) Pipeline Machine b) Array Processor                                      | [10             | 0]  |
|       | [B]   | Explain Von Neumann Machine in brief.   | [0]             | 5]  |
|       |       | OR  |                 |     |
| Q. 3  | [A]   | Write a note on:  a) Direct Addressing b) Immediate Addressing  | [10             | 0]  |
|       | [B]   | List out steps of Fetch Decode Cycle.   | [0]             | 5]  |
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| ÷     |       |   | Page 1 of       | •   |

| Q. 4           | [A]<br>[B] | - Third Standard Explain various types of scanner in bilet.  |          |
|----------------|------------|--|----------|
|                |            | OR COMPANY OR SERVICE  |          |
| Q. 4           | [A]        | Define: Memory. Explain RAM and ROM in detail.   | [10]     |
| ea;            | [B]        | Write a note on: Mouse (i) a symmetric and in the detail.  | [05]     |
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