



**DMM-3068**  
**Second Year B. Sc. (Sem. IV) Examination**  
**April / May - 2016**  
**Electronics for Computer Science : Paper - III**  
**(Embedded System)**

Time : Hours]

[Total Marks : 50

**Instruction :**

<p>नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवडी पर अवश्य कपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : SECOND YEAR B. Sc. (SEM. 4)</p> <p>Name of the Subject : ELECTRONICS FOR COMPUTER SCIENCE - 3</p> <p>Subject Code No. : 3 0 6 8 Section No. (1, 2,.....): Nil</p>	<p>Seat No. : □ □ □ □ □ □ □ □</p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center; margin-top: 10px;">Student's Signature</div>
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- 1 Answer in short : 8
- (a) What is STACK POINTER (SP) ?
  - (b) Explain following instruction :- CLPA, DA, CJNE, ANL A.
  - (c) Give the long form of SWAP, XCHD, XRL, XCH.
  - (d) What is a Flag w.r.t 8051 ? Which are they ?
- 2 (a) How many instruction types are there in 8051 instruction set? 7
- (b) General architecture of MICROCONTROLLER. 7
- OR**
- 2 (a) What do you understand by addressing mode in 8051 ? How many addressing modes are there in 8051 controller ? 7
- (b) Draw the block diagram of Embedded microcontroller. 7

- 3** Short notes on : **14**
- (a) Differentiate between Microprocessor and Microcontroller.
  - (b) INPUT and OUTPUT port of 8051.
- OR**
- 3** (a) 8051 serial communication programming. **14**
- (b) Logical and Arithmetic Instruction of 8051
- 4** Write programme : (any **two**) **14**
- (a) Write a program to transfer 'A' to 'Z' letter continuously using second serial port.
  - (b) Write a program to get the byte of a data from P1 and then send it to P2.
  - (c) Write program to read a from P0 and send it to port P1, if it is less than 50 other wise send it to P2.
  - (d) Write program to add and subtract.
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