

**B.Tech. – VIEP – ELECTRICAL ENGINEERING
(BTELVI)**

Term-End Examination

00303

December, 2016

**BIEE-015 : MICROPROCESSOR AND ITS
APPLICATIONS**

Time : 3 hours

Maximum Marks : 70

Note :

- (i) *Attempt any **seven** questions.*
- (ii) *Assume missing data, if any.*
- (iii) *Use of standard scientific calculator is permitted.*

-
1. (a) What are the different instruction formats of 8085 microprocessor ? Discuss in detail. 5
 - (b) Explain the various functions of ALU. 5
 2. (a) State and explain the advantages and disadvantages of assembly language. 5
 - (b) Describe the addressing modes of 8085 microprocessor with one example each. 5

3. (a) Explain the basic operation of microprocessor 8085 during execution of an instruction. 5
- (b) Explain the following instruction set of 8085 : 5
- (i) XCHG
- (ii) DAA
4. (a) Explain 8085 Interrupts. 5
- (b) Differentiate between vectored and non-vectored interrupts. 5
5. (a) Give the comparison between memory mapped I/O and I/O mapped I/O. 5
- (b) Discuss about the different data transfer schemes with example. 5
6. (a) Write a short note on 8255 DMA controller. 5
- (b) Explain parallel data transfer technique using 8155. 5
7. (a) Explain Interfacing D/A converter. 5
- (b) Explain Interfacing and Refreshing dynamic RAM. 5

8. Write and explain brief comparison of contemporary 8-bit microprocessors like Z-80, M-68000 with 8085. 10
 9. Describe memory address space and data organization of Intel 8086. 10
 10. Explain the use of Stack Pointer (SP) during PUSH and POP operation. 10
-