11 No. ...

Total Pages: 3.

12344

BSIT/D-12

PROGRAMMING-III

Paper-BSIT-505

e Allowed: 3 Hours]

[Maximum Marks: 45

question from each Unit. Question No. 1 is compulsory.

(Compulsory Question)

- (a) Discuss the role of Stack in calling a Sub-routine and returning from Sub-routine.
- (b) Explain important difference between Static RAM interfacing and dynamic RAM interfacing. 3
- (c) Discuss the key features of Multiport memory configurations.

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(d) Bring out salient features of 80286 in real address mode.

UNIT-I

- 2. (a) Explain interrupt structure of 8086 in detail.
 - (b) Define a Macro "SQRT" that calculates square root of a number.
- 3. (a) Explain, how parameters are passed to Macro.
 - (b) Write ALP to generate 10 sec. delay using a microprocessor system that runs at 50 MHz.

UNIT-II

- 4. (a) Discuss the procedure of interfacing static RAM with:
 CPU.
 - (b) Interface two 4K RAM chips and two 2K EPRON chips with 8088 so as to form a completely workin system configuration.
- 5. (a) Explain the control word format of 8255 in I/O mode
 - (b) Interface an 8×8 keyboard using two 8255 ports.

UNIT-III

6. (a) Interface a typical 12-bit DAC with 8255.

(b) Write a program to generate square wave of period 1 m sec. using CPU that runs at 10 MHz.

Discuss Architecture of numeric processor 8087 in detail.

UNIT-IV

- (a) What do you mean by Swapping in and Swapping out?
- (b) What are the salient features of protected virtual address mode?
- Discuss design issue of RISC processor in detail.