

FOURTH SEMESTER EXAMINATION 2021-22

M.Sc. PHYSICS

Paper - IV

Micro Processor

Time : 3.00 Hrs.

Max. Marks : 80

Total No. of Printed Page : 02

Mini. Marks : 29

Note:- Question paper is divided into three sections. Attempt question of all three section as per direction Distribution of marks is given in each section.

Section 'A'

Very short answer question (in few words)

Q.1 Attempt any six questions from the following :

6x2=12

- (i) What is Interrupt ?
- (ii) What is ROM ?
- (iii) What is DMA Controller ?
- (iv) What is Addressing mode ?
- (v) Define memory paging ?
- (vi) Write any two difference between microprocessor and Micro-computer ?
- (vii) What is Disk file ?
- (viii) What is Real more of memory addressing ?
- (ix) What is Modular Programming ?
- (x) Write full form of ADC and DAC ?

(2)

Section 'B'

Short answer type question (in 200 words)

- Q.1 Attempt any four questions from the following : 4x5=20
- (i) Explain program memory addressing mode ?
 - (ii) Explain Bus Buffering and latening ?
 - (iii) Explain pin outs and pin-functions ?
 - (iv) Explain shared bus operation.
 - (v) Explain Dynamic RAM ?
 - (vi) Write a short notes on video displays.
 - (vii) Write a short notes on Assembler details.

Section 'C'

Long answer/Essay type question.

4x12=48

- Q.3 Attempt any four questions from the following questions :
- (i) Describe the instructions set of microprocessor.
 - (ii) Expalin Real mode and protected mode of memory addressing in detail.
 - (iii) Explain Modular programming using keyboard ?
 - (iv) Explain clock generator 8284 A.
 - (v) Explain 80286 (16 bit) memory interface in detail.
 - (vi) Explain the basic processing of interrupt and describe Hardware interrupt.
 - (vii) Explain I/o interface and I/o port address decoding.

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