D 2015 (Pages 2)

Name

Reg. No⋅⋅⋅⋅⋅⋅⋅⋅⋅⋅⋅⋅⋅⋅

FIRS SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2009

Computer Science (Main)

CS 105—ADVANCED MICROPROCESSOR

(2005 Admission)

Time : Three Hours

Maximum : 80 Marks

Part A

Answer any **five** *questions.*
All questions carry equal marks.

1. Describe general Format of an instruction.

2. Explain the code segment and data segment. Explain how segment address and offset address are used to access memory location.

3. What is a sub Program ? Explain how the data in one assembly module is defined in another module.

4. Describe the statements that terminates assembly and statements that terminate execution.

5. Explain the original DOS service for displaying.

6. Explain how sectors and tracks are organized in a hard disk ?

7. Describe important features of Pentium Microprocessor.

(5 x 8 = 40 marks)

Part B

Answer any **four** *questions.*
All questions carry equal.

8. (a) Describe the register structure of 8085 microprossor.

 (b) Explain addressing modes of 8085.

9. (a) Describe the features of programmed **110** system in a microprocessor.

 (b) Describe the features of the microprocessor 8088.

10. (a) Describe the features of string operation.

 (b) Explain the processing of string data using MOVS and CMPS instruction.

11. (a) Describe the methods for screen display and keyboard operations in DOS.

 (b) Describe **INT** 21 **H** operations for screen display and keyboard.

Turn over

12. (a) Describe the writing and reading of disk files. Explain the information in boot rec

(b) Explain how macros are defined and used.

13. (a) Describe the hardware features of Intel 80286.

(b) What are the important additional instructions with 80286 compare to its predecessors ?

(4 x 10 =40 marks)