

B.C.A. Part—II (Semester—IV) Examination
ADVANCE MICROPROCESSORS AND MICROCONTROLLER
Paper—4ST5

Time : Three Hours]

[Maximum Marks : 60

- Note :—** (1) All questions are compulsory.
 (2) All questions carry equal marks.
 (3) Draw neat sketches wherever necessary.

1. (a) Explain internal architecture of 80286 μ p. 8
 (b) Explain Register addressing and Direct addressing for 80286 μ p with suitable example. 4
- OR**
2. (a) Explain interrupts in 80286 μ p. 6
 (b) Explain real and protected mode in 80286 μ p. 6
3. (a) Describe register organisation of 80386 μ p. 8
 (b) Enlist salient features of 80586 μ p. 4
- OR**
4. (a) What is segmentation ? How it is achieved in 80386 μ p ? Explain it. 6
 (b) Explain flag register of 80486 μ p. 6
5. (a) Describe internal blocks of 8051 μ c. 6
 (b) Explain flag registers in 8051 μ c. 6
- OR**
6. (a) Give comparison between microprocessor and microcontroller. 6
 (b) Explain interrupts in 8051 μ c. 6
7. (a) What is an addressing mode ? Explain addressing modes in 8051 μ c. 8
 (b) Explain JUMP and CALL instruction for 8051 μ c with suitable example. 4
- OR**
8. (a) Enlist Data transfer instructions of 8051 μ c. 6
 (b) Write ALD for multiplication of two 8 bit numbers. 6
9. (a) Explain the power saving in 8051 μ c. 6
 (b) Describe the interfacing of 8051 μ c with RS-232C. 6
- OR**
10. (a) Describe the interfacing of 8051 with DAC with suitable sketch. 6
 (b) Enlist the application of 8051 μ c. 6

