

(6 pages)

Reg. No. :

Code No. : 21007

Sub. Code : GMCS 4 A/
GMSE 4 A

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2016.

Fourth Semester

Computer Science — Main

Elective — MICROPROCESSOR

(For those who joined in July 2012 and afterwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Microprocessor use a language called _____.
(a) Highlevel (b) Machine
(c) Assembly (d) 4GL
2. Set of instructions written for microprocessor is called.
(a) Commands
(b) Program
(c) Software
(d) Assembly language program

3. How many pins are there in 8085?

(a) 8 (b) 16
(c) 24 (d) 40

4. The 8085 has _____ interrupt signals?

(a) 5 (b) 6
(c) 7 (d) 8

5. Which of the following instruction is used to compare accumulator with register or memory

(a) CMP (b) CPI
(c) CMI (d) None of these

6. The break point is set by _____ instruction.

(a) RST (b) INTA
(c) INTR (d) None of these

7. How many operations are there in stack?

(a) 2 (b) 3
(c) 4 (d) 5

Page 2

Code No. : 21007



8. The execution of RST n instruction causes a stack pointer to

- (a) increment by two
- (b) decrement by two
- (c) remain unaffected
- (d) none of these

9. A _____ is a translator used to convert assembly language to machine language.

- (a) Assembler
- (b) Compiler
- (c) Interpreter
- (d) None of these

10. BCD stands for

- (a) Binary Coded Decimal
- (b) Bit Coded Decimal
- (c) Byte Coded Decimal
- (d) None

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b), each answer should not exceed 250 words.

11. (a) Describe various computer languages.

Or

(b) How to write, assemble and execute a simple program?

12. (a) With neat diagram explain microcomputer system.

Or

(b) Describe memory interfacing.

13. (a) Discuss any five data transfer instructions.

Or

(b) How to debug a program?

14. (a) Write short notes on counters.

Or

(b) What is subroutine?



15. (a) Explain BCD subtraction.

Or

- (b) Describe BCD to binary Conversion.

PART C — ($5 \times 8 = 40$ marks)

Answer ALL questions, choosing either (a) or (b), each answer should not exceed 600 words.

16. (a) Classify 8085 instruction set.

Or

- (b) Describe various data formats.

17. (a) With neat diagram explain the architecture of 8085.

Or

- (b) Write short notes on I/O devices.

18. (a) Write an ALP to find the biggest among N numbers.

Or

- (b) Explain all 16 bit arithmetic instructions.

19. (a) How to design a Hexa Decimal Counter? Explain.

Or

- (b) Describe call and return instruction.

20. (a) Explain BCD multiplication.

Or

- (b) Write an assembly language program to implement BCD to seven segment LED.

