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Reg. No. : .....

Code No. : 21007

Sub. Code : GMCS 4 A/  
GMSE 4 A

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2017.

Fourth Semester

Computer Science — Main

Major Elective — MICROPROCESSOR

(For those who joined in July 2012 – 2015)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer.

1. \_\_\_\_\_ Language consists of Mnemonic code
- (a) Highlevel
  - (b) Machine
  - (c) Assembly
  - (d) 4GL

2. Now a days the computers are called Microcomputer because it has \_\_\_\_\_ inside
- (a) Microcontroller
  - (b) Microprocessor
  - (c) Microchip
  - (d) None of these
3. How many flags are there in 8085?
- (a) 4
  - (b) 5
  - (c) 6
  - (d) 7
4. Which is most commonly used output device?
- (a) Monitor
  - (b) Screen
  - (c) LCD
  - (d) Touch screen
5. Which of the following instruction use immediate addressing mode?
- (a) MVI R, data
  - (b) MOV Rd, Rs
  - (c) In port#
  - (d) Out Port#



6. The LXI instruction is \_\_\_\_\_ bit data transfer instruction
- (a) 8 (b) 16  
(c) 24 (d) 32
7. When subroutine is called \_\_\_\_\_ and \_\_\_\_\_ instructions are executed
- (a) call, return (b) save, return  
(c) call, save (d) forward, return
8. A stack can also called as
- (a) FILO (b) FIFO  
(c) LIFO (d) None of these
9. \_\_\_\_\_ converts assembly language to machine language.
- (a) compiler (b) interpreter  
(c) assembler (d) none
10. How many parts are there in microcomputer
- (a) 2 (b) 3  
(c) 4 (d) 5

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**PART B — (5 × 5 = 25 marks)**

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Explain various arithmetic instructions.

Or

- (b) Discuss about high level languages.

12. (a) With neat pin out diagram explain the 8085 microprocessor.

Or

- (b) Describe memory interfacing.

13. (a) What is counting?

Or

- (b) What is indexing?

14. (a) Describe debugging counter.

Or

- (b) Write about time delay programs.

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[P.T.O.]



15. (a) Write short notes on BCD number system.

Or

- (b) Explain binary to BCD conversion.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain 8085 programming model.

Or

- (b) Give an overview of 8085 instruction set.

17. (a) Describe I/O and memory.

Or

- (b) How to interface 8155 memory segment?

18. (a) Explain various rotate instructions with an example program.

Or

- (b) Explain all data transfer instructions.

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19. (a) Describe hexa decimal counter.

Or

- (b) Describe module 10 counter

20. (a) Explain BCD to binary conversion.

Or

- (b) Explain BCD subtraction.

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