Reg. No.: Code No.: 21007 Sub. Code: GMCS 4 N GMSE 4 A	is a 7 bit alphanumeric code with 128 combinations. (a) Extended ASCII (b) ASCII (b) UNICODE (d) Binary code
B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2018 Fourth Semester Computer Science/Software Engineering — Main Major Elective — MICROPROCESSOR (For those who joined in July 2012-2015) Time: Three hours	is a group of devices that can perform functions such as initiate, internal and peripheral operations. (b) CPU (c) ALU (d) Control unit ———————————————————————————————————
PART A — $(10 \times 1 = 10 \text{ marks})$ Answer ALL questions.	is an opcode used to stops executing and enters wait state.
Choose the correct answer: 1. The is a programmable integral device that has computing and decision-making the CPU.	(b) STOP (d) Exit
capability similar to the Cl C. (a) microcontroller	Instruction used for rotate each bit in the secumulator to the left through the carry is
(b) microprocessor (c) microcomputer (d) minicomputer	(a) RAR (b) RLA (d) RRC Page 2 Code No.: 21007

7.	events.	PART B — $(5 \times 5 = 25 \text{ marks})$
	(a) stacks (b) registers	Answer ALL questions, choosing either (a) or (b).
	(c) counters (d) time delays	Each answer should not exceed 250 words.
8.	A stack is ———.	(a) Write short notes on high level languages.
	(a) 8-bit register in the microprocessor	Or
	(b) 16-bit register in the microprocessor	(b) Describe the 8085 arithmetic operations.
	(c) a set of memory locations in R/WM	(a) State the primary operations of MPU.
	(d) 16-bit memory address stored in the program	
	counter.	Or
9.	instruction do not affect the flag	(b) Write short notes on Tri-state devices.
	(a) arithmetic	(n) Explain unconditional jump.
	(b) data transfer	Or
	(c) logical	
	(d) all the above	(b) Discuss about dynamic debugging.
10.	A counter design generally includes a ———————————————————————————————————	List out the common errors in counter and time delay programs.
	(a) double (b) delay	Or
	(c) counter (d) condition	(b) Discuss about CALL and RET instruction.
	Page 3 Code No.: 21	Page 4 Code No. : 21007 [P.T.O.]

15. (a) Write down the steps for Binary to little conversion.

Or

(b) Write instruction to display the contest stack pointer register at output ports.

PART C — $(5 \times 8 = 40 \text{ marks})$

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

Each answer should not exceed 600 words.

16. (a) Explain the microprocessor controlle temperature system.

Or

- (b) Discuss about the 8085 programming model
- 17. (a) Write detail notes on 8085 internal operations and its registers.

Or

- (b) Draw the 8085 pin diagram and explain
- 18. (a) Write detail notes on logical operation

Or

(b) Discuss about Block transfer of data by

Page 5 Code No.: 211

(a) Describe the counter design with time delay.

Or

- (b) State the detail notes on stack operations.
- (a) Describe the BCD-to-Seven segment-LED code conversion.

Or

(b) Write detail notes on BCD Addition.