

electrical module three past papers

SECTION A: MICROPROCESSOR SYSTEMS

Answer any **THREE** questions from this section.

1. (a) Draw a labelled block diagram of a microprocessor and state the function of each block. (6 marks)
- (b) Explain the function of each of the following microprocessor registers:
- (i) status register;
 - (ii) memory address register;
 - (iii) index register. (6 marks)
- (c) Table 1 shows Intel 8085 program listing. For each instruction, state:
- (i) addressing mode;
 - (ii) size of the machine code, in bytes. (8 marks)

Table 1

LXI H, 2040H	→
ADD B	→
STAX D	→
INX D	→

2. (a) Define each of the following types of interrupts:
- (i) maskable;
 - (ii) polled. (2 marks)
- (b) For a direct memory access controller (DMAC):
- (i) State two pins necessary for requesting and relinquishing the bus from the CPU;
 - (ii) Explain the functions of each of the following registers:
 - (I) command register;
 - (II) mode register. (6 marks)

- (c) (i) Write an assembly language program segment to perform the following:
- read data from port A (81H) and port C (83H) of a programmable Input/output (PIO) to form a 16-bit number;
 - store the 16-bit data into memory locations 1800H and 1801H;
 - end.
- (ii) A CPU clock frequency is 1 MHz. Determine the number to be loaded into the internal timer register to achieve a single wave pulse every 50 μ S.
- (iii) With the aid of a labelled diagram, show how a seven segment LED display is interfaced with the PIO's port A. (12 marks)

3. (a) Write assembly language program segments to perform each of the following:

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Kathleen Armour



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