



Digital Electronics & Microprocessor 2K7-CS-01

Time: 03 hrs.l

[M.M.: 100

Note:-

- 1. Part 'A' may be attempted in first 5 pages of Answer Shedi. भाग का के सभी तत्तर, जन्मर-पुश्तिकर के प्रथम का प्रथम में ही करने हैं।
- 2. Part 'B' in rest of the Sheets of Answer Sheet.
 - भाग रह के वासर वासर-पुस्तिका के अगले शेष पुष्टों में लिखिये।
- 3. Answers may be given in English or Hindi प्रकार के जारर अधोजी अध्यक्त हिस्ती में वीरिन्त ।

PART - A

Answer any ten questions :

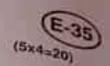
(2x10=20)

- (N) Convert (11011011) to binary
- 407 Add the binary number 1001 & 1100.
- (c) State two use of a Counter.

ngineer (o) What's a fle -Por Draw a sym

- MVI. A has
- number of machine tycle er. com What does RST stand for
- Der What is interupt?
- Explain Encoder ?
- A Define SOP ?
- (k) Why do we need Clock Pulse?
- How many bit are present in nibble ?
- (M) Write NAND gate TRUTH TABLE.
- (X) What is Registers.

Answer any five questions



- (a) What is Universal gates ? Name them with truth table.
- (e) Write a short notes on Priority Encoder.
- State the need of Registers.
- Diffentiate between Synchronous & Asynchronous data transfer.
- (e) Draw the block diagram of 8085 microprocessor.
- (f) Compare Static and Dynamic RAM.
- (9) Explain full adder working with logic gates.
- Draw logic symbol and truth table of S-R flip-flop.

PART- B

Answer any three questions :

(3x20=60)

- (a) Explain 7-Segment display, draw the Simplified logic table & K-map of it to form logic block diagram.
 - Explain with truth table and symbol for
 - (i) AND
 - (II) OR
 - (iii) NAND
 - (IV) NOR
- 4. Ar For a Micro Processor, Explain in brief the following :

(I) Control bus. Engine and address bus. Engine Single Explain Tilming diagram opcode fetch-cycle

- (a) Implement the following Bablean function using Multiplex. C O M f=∑(1,3,4,11,12,13,14,15)
 - (b) Write a short note on Memory organization, memory map and addresses.
- 6. Explain 5 type of number system each with two examples.
 - (b) Explain the use of alpha numeric code (i) ASCII & (ii) EOCDIC.
- (a) Explain the interrupt RST instruction.
 - (b) Write a short note on :
 - (i) RIM instruction
 - (ii) SIM instruction

