COPYRIGHT RESERVED Voc(Sem-II) — BCA (CC – 4)

2024

Time: 3 hours

Full Marks: 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from all the Parts as directed.

Part – A (Objective Type Questions) (Compulsory)

1. Choose the correct answer of the following:

 $1 \times 5 = 5$

- (a) Demultiplexer is also known as:
 - (i) MUX
 - (ii) DEMUX
 - (iii) D/A converter
 - (iv) None of these

(b) ISA stands for :	2. Fill in the blanks with appropriate answer:			
(i) Industry Standard Architecturastion	1×5 = 5			
(ii) Industry Standard Architecture	(a) In 8086 Microprocessor, Address Bus is			
(iii) Industry Standard Architect				
(iv) None of these	(b) MBR stands for			
(c) Which is Bidirectional ?	(c) GPR stands for			
(i) Data Bus	(d) PIC stands for			
(ii) Address Bus	(e) Multiplexer denoted as			
(iii) Control Bus	Part – B			
(iv) None of these	(Short-answer Type Questions)			
(d) How many state of Flags ?	3. Answer any four questions of the following :			
(i) 2	5×4 = 20			
(ii) 3	(a) Explain the Demultiplexer.			
	(b) What is Instruction cycle?			
(iii) 4	(c) Explain the timing and control in CSA.			
(iv) 5	(d) What is Interrupt?			
(e) How many pair of Register in Computer org?	(e) Explain the System Bus.			
(i) 3	Explain any two of the following:			
(ii) 4	(i) Shift Register			
(iii) 2	(ii) Cache Memory			
(iv) None of these	(tii) DX and SX up			
ES - 2/3	(iv) Parallel port			
(2) Contd.	ES - 2/3 (3) (Turn over)			

Part - C

(Long-answer Type Questions)

4 . ,	Answer	any four	questions	of the	following
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 $10 \times 4 = 40$

- (a) What is Register Organisation? Explain the type of Register in Registration Organisation.
- (b) What is Mapping ? Explain the types of Mapping.
- (c) Differentiate between Encoder and Decoder with diagram.
- (d) Differentiate between 80386 DX and 80386 SX Microprocessor.
- (e) Explain the Real mode and Protected mode.
- Explain the Bus interconnection design of the basic computer.
- (g) Explain the following:
 - (i) Instruction set 0
 - (ii) Associative memory
 - (iii) Ports
 - (iv) Logic microoperation @

ES - 2/3 (500) (4) Voc(Sem-II) — BCA (CC - 4)