www.wikied.in		
5	WikiEd	www.wikied.in
Roll	No.	Total No. of Pages : 02
Tota	al No. of Questions : 09	
B.Tech. (Artificial Intelligence & Machine Learning/Computer Engineering/Computer Science & Engineering/Computer Science & Engineering (Artificial Intelligence & Machine Learning)/ Information Technology/CSE (Internet of Things and Cyber Security including Block Chain Technology)/ CSE (PIT)) (Sem.–4) COMPUTER ORGANIZATION AND ARCHITECTURE Subject Code : BTES-40 ¹ -18 M.Code : 77627 Date of Examination : 05-07-22		
Tim	e : 3 Hrs.	Max. Marks : 60
INST 1. 2.	RUCTIONS TO CANDIDATES : SECTION-A is COMPULSORY consisting of TEN questior SECTION-B contains FIVE questions carrying FIVE mark questions.	
-		

3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly :

- a) What is Control Unit?
- b) Discusss carry look-ahead adder.
- c) Write functioning of USB.
- d) Define concept of Memory Organization.
- e) What is meant by division restoration?
- f) Write use of software interrupts?
- g) What are CPU registers?
- h) Discuss floating point arithmetic.
- i) Briefly explain cache size?

¹ | M-77627

j) List advantages of pipelining?

SECTION-B

- 2. Explain different addressing modes used in central processing unit.
- 3. What are the advantages and disadvantages of hardwired and microprogrammed design approaches?
- 4. What is DMA? Give an example, where DMA mode of data transfer is useful.
- 5. Discuss the role of cache coherency in parallel processors?
- 6. How the data is represented in computer architecture? Explain with example

SECTION-C

- 7 Briefly explain the block diagram and instruction set of 8085 processor? How 8085 is different from 8086?
- 8. What is the need of replacement algorithms in memory organization? Explain with example.
- 9. Discuss the role of pipelining for data processing in computer organization. How it increases the throughput?

www.wikied.in

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.

2 | M-77627

(S2)-298

www.wikied.in