DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE – RAIGAD -402 103

Winter Semester Examination - December - 2019

Branch: EXTC Sem.:- V
Subject with Subject Code:- Computer Architecture (BTETC503) Marks: 60
Date:- 13/12/2019 Time:- 3 Hr.

Instructions to the Students

- 1. Each question carries 12 marks.
- 2. Attempt any five questions of the following.
- 3. Illustrate your answers with neat sketches, diagram etc., wherever necessary.
- 4. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly
- Why you should do performance testing? What is the **Q.1** [06] purpose, advantages, challenges of software performance test? b. Explain the following section with respect to assembly [06] basic syntax? 1. The data section 2. The BSS section 3. The Text Section 0.2 a. With a neat diagram explain the internal organization of a processor b. How computer handles the information? Describe the [06] following number format with examples –Binary,
- Q.3 a. Describe the design of a hardwired control unit of a computer [06]

Hexadecimal, Boolean, date, integer, fixed point,

general, exponential, suffix

b Explain the steps to perform the floating point [06] multiplication operation with examples

Q.4	a.	Differentiate between RAM and ROM with respect to [06] Devices characteristics (max. ten characterises	
- 13.5 A. P. V.		expected)	
	b.	What are the different functions performed by the memory management unit	
in Construction of second or s			
Q.5.	a.	What is the purpose of input-output interface? With neat diagram explain Programmed I/O Mode	
	b.	With a neat sketch explain the block diagram of DMA [06]	
		Controller.	
Q.6	a.	What is the basic concepts of pipelining [06]	
	b.	Describe the data path and control considerations for pipelining [06]	

Paper End