



R18 Regulation

Subject code: 2P4EB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A' Grade)

B.Tech IV Semester Supplementary Examinations, July 2022

COMPUTER ORGANIZATION

(CSE)

Maximum Marks: 70

Date:22.07.2022 Duration: 3 hours

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 Define instruction.
- 2 What are the functional units of a computer?
- 3 Define predecoded instruction byte queue.
- 4 Write down the functions performed by BIU and EU
- 5 Define the memory mapping I/O.
- 6 What is handshaking.
- 7 Mention down the four classifications of computer.
- 8 What is a pipelining.
- 9 Mention down the three major pipeline hazards.
- 10 Differentiate between ROM and PROM.

Part-B

Answer All the following questions.

(10M X 5=50Marks)

- 11 Draw and discuss about instruction cycle. [10]
- OR
- 12 Explain the functioning of microprogrammed control unit. [10]
- 13 Discuss about the bus operation of 8086. [10]
- OR
- 14 A. Explain the concept of physical memory organization. [5]
B. Discuss the register orgainsation of 8086. [5]
- 15 Write about the input output interface. [10]
- OR
- 16 Explain the concept of data transfer modes. [10]
- 17 Write about the associate memory. [10]
- OR
- 18 Explain about the cache memory and its advantages. [10]
- 19 Explain about the time shared common bus and discuss the structure for multiprocessors
- OR
- 20 Define RISC and explain the concept of delayed load and delayed branch.