

B.C.A. (Part-I) EXAMINATION – 2016

(Faculty of Science)
(Three-Year Scheme of 10+2+3 Pattern)

COMPUTER ORGANIZATION – 135

Time Allowed: Three Hours

Maximum Marks: 100

Question paper consists of three parts.
All THREE parts are compulsory

Part - I (very short answer) consists 10 questions of two marks each with two questions from each unit. Maximum limit for each question is up to 40 words.

Part - II (short answer) consists 5 questions of four marks each with one question from each unit. Maximum limit for each question is up to 80 words.

Part - III (Long answer) consists 5 questions of twelve marks each with one question from each unit with internal choice.

Write your roll number on question paper before start writing answers of questions

Part – I

Attempt all questions. Each question carries 2 marks.

10 x 2=20

1. (i) What is System Clock?
- (ii) What is the role of expansion slots?
- (iii) What are the component of ALU?
- (iv) What is EEPROM?
- (v) What is the Control Bus?
- (vi) What do you mean by 64-bit architecture?
- (vii) What are Micro-Controllers?
- (viii) What is Cache Memory?
- (ix) What are Accumulators?
- (x) What is Bar-Code?

Part – II

Attempt all questions. Each question carries 4 marks.

2. What is Sound Card? Why is it used? 4
3. Define term disk tracks, cylinders and sectors. 4
4. What are Operations and Control Register? 4
5. Explain major component I/O sub system. 4
6. What do you understand by implied addressing mode? Explain with suitable example. 4

Part – III

7. What do you mean by Bus Architecture? Define different types of Bus Architecture. 12

OR

Define different types of optical disk and explain the read and write mechanism. How is it different from magnetic storage device? 12

8. What do you mean by instruction? Explain different types of instructions. 12

OR

Explain classification of computer in details? 12

9. Explains the concept of input output interfacing and I/O processor. 12

OR

Write a short notes on: 12

(i) Register Transfer Language

(ii) Design and implementation of a simple micro sequencer.

10 List and describe different register for the basic computer. 12

OR

Write a short notes on: 12

(i) Relative address mode.

(ii) Virtual Memory

(iii) Static and Dynamic RAM

11 What is Microprocessor? Explain the pin diagram and pin description of 8085 Microprocessor. 12

OR

Explain the 8085 addressing mode/addressing technique also explain the instruction set classification. 12

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