

B.C.A. (Part-I) EXAMINATION – 2015

(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) Give the name of the Von Neumann Computer.
- (ii) What is the bus and how many types?
- (iii) What is the function of Control Unit?
- (iv) What is workstation?
- (v) What is Virtual Memory?
- (vi) What is CD-R?
- (vii) Define Addressing Mode?
- (viii) What is Memory Mapped I/O?
- (ix) What is SCSI card?
- (x) What is the instruction and execution cycle?

Part – II

Attempt all questions. Each question carries 4 marks.

2. Distinguish between sequential access, a direct access and random access storage devices? 4
3. What are the basic components of CPU of a computer system? 4
4. What are the features of Pentium Microprocessor? 4
5. What is the main difference between primary and secondary memory? 4
6. What is the primary different between a CISC and RISC processor? 4

Part – III

7. What do you mean by Ports? Define different types of Ports used in computers. 12

OR

What do you mean by secondary storage device? Explain the different types of secondary storage device. 12

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

OR

Writes short notes on: 12

- (i) Palm top Computer
- (ii) Mainframe Computer
- (iii) Client-Server Computer
- (iv) Tablet

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

OR

Write a short notes on: 12

(i) Specifying a CPU

(ii) I/O sub system organization and interfacing

10 What do you mean by addressing mode? What is the different between a direct and an indirect address instruction? 12

OR

What is meant by mapping? In how many ways may mapping be implemented? What is the role of cache directory in mapping? 12

11 What do you mean by Microprocessor? Explain the a architecture of 8085 Microprocessor. 12

OR

Differentiate between impact and non-impact printer? Explain various types of impact printer. 12

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