

B.C.A. (Part-I) EXAMINATION – 2017

(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 was the first generation of computer?
- (ii) What is Cache Memory?
- (iii) What do you mean by data path?
- (iv) What are the major parts of CPU?
- (v) What is the function of Program Counter?
- (vi) Writes the basic Instruction Processing steps?
- (vii) What are the inputs of a sequence computer?
- (viii) What is instruction cycle and opcode fetch?
- (ix) What is EPROM?
- (x) Writes the name of Auxiliary Storage devices.

Part – II

Attempt all questions. Each question carries 4 marks.

2. Writes about short notes of historical evolution on the computers? 4
3. Write the operation of Control Unit. 4
4. Write the feature of Pentium Microprocessor. 4
5. Write the function of data transfer instruction. 4
6. Write the major difference between Microprocessor and Microcontroller. 4

Part – III

7. What is Von Neumann Architecture of a computer? Explain the function of different units used in it. 12

OR

8. Explain the various type of output devices of computer. 12
8. Draw the basic building block diagram of computer system. Explain its block in brief. 12

OR

9. Write the classification of computer. Compare mini computers, microcomputers and mainframe computers. 12
9. What do you mean by system buses? Draw the common bus system diagram and explain it. 12

OR

10. Explain the phases of Instruction Cycle of the computer system. 12
10. What do you mean by registers? Write the name of basic registers that are used in computer system. Explain any four register. 12

OR

Draws the diagram for memory hierarchy in a computer system. 12

Discuss the Magnetic Disk in details.

11 Explain the 8085 Microprocessor with block diagram. 12

OR

Explains the characteristics of RISC and RISC computer 12

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