

с14-ит-зо4/с14-см-304

4234

BOARD DIPLOMA EXAMINATION, (C-14)

OCT/NOV-2018

DIT—THIRD SEMESTER EXAMINATION

COMPUTER ORGANIZATION

Time : 3 hours]

[Total Marks : 80

3×10=30

PART—A

Instructions : (1) Answer all questions.

- (2) Each question carries three marks.
- (3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.
- **1.** Define instruction cycle.
- 2. Define operand, opcode and address.
- **3.** Differentiate between fixed point and floating point representations. 1+1+1
- 4. Draw flowchart for floating point addition.
- 5. Draw flowchart for floating point multiplication.
- 6. List various memory device characteristics.
- **7.** List the peripheral devices that can be connected to a computer.
- **8.** Explain about destination initiated data transfer using handshaking.

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- 9. Explain about DMA controller.
- **10.** List the advantages of parallel processing.

PART—B

10×5=50

Instructions : (1) Answer any **five** questions.

- (2) Each question carries **ten** marks.
- (3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.
- **11.** Describe the sequential execution of a program stored in memory by the CPU
- **12.** (a) Define micro-operation and macro-operation. Give an example for each. 5
 - (b) Explain about zero address and one address instructions. 5
- **13.** Explain the fixed point multiplication operation with flowchart.
- 14. Explain the fixed point division operation with flowchart.
- **15.** Explain the principle of cache memory organization with the help of diagram.
- **16.** Explain programmed I/O method of data transfer.
- **17.** Explain daisy-chaining priority method.
- **18.** (a) Explain about the need for memory hierarchy in a computer.
 - (b) Explain about array processing.

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