

Name: _____ R. No. _____ Class/ Sec: _____ Date: _____ Invig. Sign _____

ATOMIC ENERGY CENTRAL SCHOOL, NARORA
CLASS XI COMPUTER SCIENCE UNIT TEST FIRST 2018-19

MM: 50

TIME: 1:30 Hr.

General Instructions:

- All questions are compulsory and marks are mentioned in front of each question.
- Electronic devices are prohibited to use in the examination.
- Use Blue or Black Pen only.
- Don't write answer or objectionable things on question paper.

1. (a) Do the following conversions.**20**

- | | | |
|-------|------------------|--------------|
| i) | $(1342)_{16}$ | = $(X)_2$ |
| ii) | $(75623)_8$ | = $(X)_2$ |
| iii) | $(326710)_8$ | = $(X)_{16}$ |
| iv) | $(111.01)_2$ | = $(X)_{10}$ |
| v) | $(144.125)_{10}$ | = $(X)_8$ |
| vi) | $(862)_{10}$ | = $(X)_2$ |
| vii) | $(35.12)_{10}$ | = $(X)_2$ |
| viii) | $(F93B7)_{16}$ | = $(X)_8$ |
| ix) | $(21.10)_8$ | = $(X)_{10}$ |
| x) | $(143.36)_{16}$ | = $(X)_8$ |

(b) Explain Cache Memory. Also illustrate the various types of cache memories.

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(c) Differentiate between ASCII and ISCII.

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(d) Explain the following. Also give an example of each.

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i) Real Time Operating System ii) Time Sharing Operating

(e) Explain One's complement. Express '-68' in One's complement form notation
Assuming 8 bit word length.

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2. (a) Explain Two's complement. Express '-15' in Two's complement form notation
Assuming 8 bit word length.

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(b) Differentiate between DRAM and SRAM.

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(c) Differentiate between Interpreter and Compiler.

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(d) Explain the following.

i) Throughput iii) Turnaround Time

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