

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)  
ORGANISATION OF ISLAMIC COOPERATION (OIC)**Department of Computer Science and Engineering (CSE)****MID SEMESTER EXAMINATION**

TIME: 1 Hour 30 Minutes

WINTER SEMESTER, 2013-2014

FULL MARKS: 50

**CSE 3171: Fundamentals of Computers**

programmable calculators are not allowed. Do not write anything on the question paper.

There are 4 (four) questions. Answer any 3 (three) of them.

Figures in the right margin indicate marks.

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- a) What is computer? What are the parts of a complete computer system? Explain. 1+5.66
- b) How is input received from keyboard? Explain with appropriate figure. 5
- c) What is software? Define system software and application software with two examples for each. 1+2+2
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- a) What is an image scanner? Explain how an image is scanned with suitable figure. 6.66
- b) Describe the specifications for comparing monitors with necessary figures. 7
- c) What are the parts of an information processing cycle? Explain. 3
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- a) With the help of necessary figure, show how computer uses a speaker to create sound. 4.66
- b) What are the general categories of printers? How does a laser printer create a printed image? Explain with appropriate figure. 7
- c) Write short notes on RAM and ROM. 2.5+2.5
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- a) How is data organized on magnetic disk using tracks and sectors? Explain with appropriate figures. 6.66
- b) What are the functions of an operating system? Describe different types of operating systems. 2+4
- c) With the help of necessary figures, show step by step how operating system communicates with the CPU. 4