ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT) ORGANISATION OF ISLAMIC COOPERATION (OIC)

Department of Computer Science and Engineering (CSE)

SEMESTER FINAL EXAMINATION

WINTER SEMESTER, 2016-2017

DURATION: 3 Hours

FULL MARKS: 150

CSE 4105: Computing for Engineers

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

There are 8 (eight) questions. Answer any 6 (six) of them. Figures in the right margin indicate marks.

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		riguies in the right margin	2
1.	b)	State the names of different types of storage devices. Describe the storage and retrieval mechanism of optical memory device. Discuss various parameters for drive performance.	12 10
2.	a)	Briefly discuss the various ways of enhancing power of operating system. State the various features of network operating system. Discuss important aspects of LINUX.	15 6 4
3.	*	State different methods of acquiring software. Briefly describe a Personnel Information manager. Discuss various graphics file formats and mention names of common file formats.	12 3 10
4.	b)	Describe various steps for working with database management systems. Describe different functionalities of enterprise software.	15 10
., 5.	If y	you want to computerize any system, you have to follow some steps, which is called stem development life cycle. Briefly describe the systems development life cycle.	25
6.	,	State the relationship between machine code and programming language. State the concept of pseudo code, algorithm and flowchart. Draw a flowchart for sorting exam marks of a class of students.	6 9 10
1.	b) c)	Discuss various aspects of basic security concept. Describe cyber terrorism. Discuss on cookies and spyware.	10 5 10
8.	(a) b)	Briefly discuss the importance of linear algebra and geometry in computer science and engineering. Write short notes on artificial Intelligence and bio-informatics.	15