SET-A

SRM University, Kattankulathur
Faculty of Engineering and Technology, Department of Information Technology
15IT213 - IT Fundamentals
Cycle Test – II

Degree : B.Tech | Specialization: IT
Year/Sem: II / III | **Date: 08-SEP-16**
Duration : 100 Minutes | Max. Marks: 50

Instructional Objective(s) covered in this test:
1. Describe the components of IT systems and their interrelationships
2. Describe the relationship between IT and other computing disciplines
3. Describe the elements of an IT application and Business process integration

Part-B [Answer ANY 5] (5x4=20 Marks)

1. Write short notes on information assurance.
2. List the five major categories of defense.
3. List any two computing discipline and any two non computing discipline.
4. Draw the graphical view of computer engineering discipline.
5. Differentiate engineering and technology.
6. Mention the goals of an IT program.
7. List the various complexities in IT.

Part-C [Answer ALL the following] (2 x 15 = 30 Marks)

8. Define internet. Discuss the history of internet.
   OR
9. List and briefly explain eight fundamental notions as identified by Wasserman that form the basis for an effective discipline of software engineering.

10. Compare Information technology and computer science discipline in detail.
    OR
11. Explain Cryptography and CIA triad in detail.

SRM University, Kattankulathur
Department of Information Technology
15IT213 – IT FUNDAMENTALS
Cycle Test 2
SET A

Class: II/III Sem/B.Tech-IT **Date: 08.09.2016**
Duration: 50 minutes **Max Marks: 50 Marks**

List of instructional objectives covered by this test:

1. Describe the components of IT systems and their interrelationships
2. Describe the relationship between IT and other computing disciplines
3. Describe the elements of an IT application and Business process integration

List of student outcomes covered by this test:

1. An ability to analyze the local and global impact of computing on individuals, organizations and society. [outcome g]

   Sub outcomes:

   g1) Ability to understand the various facets of computing as a field

   g2) Ability to understand the impact of computing on all disciplines.

   g3) Ability to grasp the complexity of growing computational needs and the evolutionary trends of IT

Question Number	Instructional Objective	Student Outcome	Sub Outcome	Maximum Marks	Mark Obtained	Outcome Met
1	IO1	g	g1	4		
2	IO1	g	g1	4		
3	IO2	g	g2	4		
4	IO2	g	g2	4		
5	IO2	g	g2	4		
6	IO2	g	g2	4		
7	IO3	g	g3	4		
8 / 9	IO2	g	g2	15		
10 / 11	IO2	g	g1	15		

TOTAL MARKS: /50 **Signature**

SRM University, Kattankulathur

Faculty of Engineering and Technology, Department of Information Technology **SET-B**

15IT213 - IT Fundamentals

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Part-B [Answer ANY 5] (5x4=20 Marks)

1. List down the key concepts involved in any information security system.
2. Mention the role of cryptographic techniques in information security.
3. Define Information Technology. Give some examples for IT systems.
4. Mention the differences between IT and Computer Science.
5. Define software engineering. Mention about the origins of software engineering.
6. Mention the status of all the computing disciplines before and after the year 1990.
7. Write about the reasons behind the emergence of complexity in IT discipline.

Part-C [Answer ALL the following] (2 x 15 = 30 Marks)

8. Define and differentiate IT and Computer Science disciplines. Also give a neat graphical comparison of all these disciplines.

[OR]

9. Give a brief notes on the evolution of the IT discipline. Also explain about its different vertical areas.

10. Explain in detail about the difference between the information system and information technology disciplines.

[OR]

11. Elaborate on the problem spaces in computing. Mention the role of information technology in addressing such complex problems.

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Department of Information Technology **SET-B**

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4	IO2	g	g2	4		
5	IO2	g	g2	4		
6	IO2	g	g2	4		
7	IO3	g	g3	4		
8 / 9	IO2	g	g2	15		
10 / 11	IO2	g	g1	15		

TOTAL MARKS: **/50** **[Staff Signature]**