## Indian Statistical Institute, Bangalore

## MS (QMS) 2014 - 15

## Subject: Management Information System

Semester End Exam		Duration: 3 hours	Date: 03rd Nov 2014
Note: The paper carries 122 marks. Answer as much as you can. However, the maximum you can score is 100.			
1. Answer the following in the context of development of software for the implementation of MIS			
	<ul> <li>What are the different stage Explain each stage briefly.</li> </ul>	es of the waterfall model fo	r software development life cycle?
	Explain the bottom up method to estimate the effort required to develop a Management Information System (MIS).		
	Any information system needs to undergo changes. How many different types of changes		
	are there? Explain the change	es briefly.	[12 + 8 + 5 = 25]
2. Answer the following			
	<ul> <li>a. What are functional and non</li> </ul>	·	,
	<ul> <li>b. Give two examples of non-fu</li> </ul>	·	•
	Explain the difference between fault and failure. In this context explain the situation that a		
	system with more faults may	fail less often compared to a	system having more faults. [6]
d. What tests are carried out in the entire testing life cycle? Explain the tests briefly. $[3 + 6 = 9]$			
3. The correctness of an information system needs to be assessed through review and testing. Answer			
the following in this context  a. What is the difference between verification and validation? [2]			
	b. What are black box and whit		[4]
	c. Name three different covera		
	these tests used?	ists: what do you mean by	user acceptance tests? When are
		ance may impact come o	[4+2+4=10] ther non-functional requirement?
	<ul><li>e. Do you think that perform Explain.</li></ul>	iance may impact some o	[3]
4. Answer the following			
a. Explain the difference between purposive and non-purposive systems. [6]			
	<ul><li>b. What is a Use Case? Explain v</li></ul>		[9]
	<ul><li>c. Name five data quality chara</li></ul>	·	
	c iive data quanty chara	ctcstics with brice explanati	[10]

5. What techniques are used to carry out SWOT analysis? Explain briefly. [2 + 10 + 10 = 22]