SCHEME OF VALUATION

(Scoring Indicators)

Revision: 2015
Course Title: PROJECT MANAGEMENT AND SOFTWARE ENGINEERING
Course Code: 5132

Q.No	Scoring Indicator	Split up score	Sub total	Total
	PART A			
I(1)	Software engineering discusses the systematic and cost effective techniques to software development.	2	2	2
I(2)	The customer requirements identified during the requirements gathering and analysis activity are organised into a software requirements specification.	2	2	2
I(3)	The DFD is a simple graphical formalism that can be used to represent a system in terms of the data input to the system, various processing carried out on those data and the output data generated by the system.	2	2	2
I(4)	Unit testing is the testing of individual modules in isolation from other modules.	2	2	2
I(5)	A risk is any anticipated unfavourable event that can occur while a project is underway.	2	2	2
	PART B			
II(1)	a. Early computer programming. b. High level language programming. c. Control flow based design. d. Data structure oriented design e. Data flow oriented design. f. Object oriented design.	List – 3 Explain -3	3+3=6	6
II(2)	Listing the advantages and limitations of a. Classical water fall model - no feed back b. Iterative waterfall model - mostly used etc c. Prototyping model – concurrent feedback d. Spiral model – predicting time and cost	4 x 1.5	6	6
II(3)	a. Concise b. Structured c. Black box view d. Traceable e. Response to undesired events f. verifiable	Listing any 4 – 2 marks and Explanation 4 marks	6	6
II(4)	Explanation about lines of code, function point metric, feature point metric. Explanation Calculation of UFP, FP.	Explanation of each-2 marks each	2+2+2=6	6
II(5)	Explain about design document – different modules required, control relationship among different modules, interfaces among different modules, data structures of the individual modules and algorithms of the individual modules. Program structure or software architecture , structure chart, UML , Cohesion , Coupling etc	6	6	6

II(6)	Explanation about code walkthrough, code inspection.	Explanation of each --- 3 marks	3 +3 = 6	6
II(7)	Software configuration management deals with effectively tracking and controlling the configuration of a software product during its life cycle.	6	6	6
III(a)	Explaining the six phases in detail.	Listing 2 marks and explanation 6 marks	2+6	8
III(b)	Figure and Explanation of classical water fall model.	Figure 2 marks Exp - 5 marks	2+5	7
IV(a)	Figure and Explanation of iterative water fall model.	Figure 2 marks Exp - 6 marks	2+6	8
IV(b)	Figure and Explanation of spiral model.	Figure 2 marks Exp - 5 marks	2+5	7
V(a)	Explanation about a. Requirements gathering b. Requirements analysis c. Requirements specification		2+3+3	8
V(b)	Structure of SRS document – explanation of each step in detail 1. Introduction 2. Goals of implementation 3. Functional requirements 4. Non functional requirements 5. Behavioural description	2 marks for listing and explanation 5 marks	2+5	7

VI	**a.** Function symbol **b.** External entity symbol **c.** Data flow symbol **d.** Data store symbol **e.** Output symbol Explanation of each with figure 2 marks each Example 5 marks	10+ 5	15	15
VII	**a. Representative coding standards – 8 marks** **b. Representative coding guidelines – 7 marks**	8+7	15	15
VIII	a. Statement coverage b. Branch coverage c. Condition coverage d. Path coverage e. Mutation testing	3 marks each. 3*5=15	15	15
IX	Explanation about basic COCOMO – estimation of development effort, time of organic, semidetached and embedded – its formulas. --- 9 marks Intermediate COCOMO - 3 marks Complete COCOMO – 3 marks	9+3+3	15	15
X	Explaining the five levels of CMMI. Initial Repeatable Defined Managed Optimizing	Explanation- 3 each	15	15