DEPARTMENT OF INFORMATION TECHNOLOGY

NATIONAL INSTITUTE OF TECHNOLOGY, SRINAGAR

ajor Examination

Tech4" Semester (IT)

me Allowed: 2 hours

Software Engineering

Maximum Marks: 50

5th July, 2015 (2:30 PM)

iote: Attempt any four Questions.

Q1:- (a) Explain software process assessment. What is its purpose? Also discuss the standards developed for it.

- (b)Compare incremental process model with evolutionary process model.
- (c) What is the role of user participation and characteristics of requirements in the selection of a [4.5, 4, 4] life cycle model.
- :- (a)Develop complete use case for placing an order online.
 - (b)Draw context diagram and level 1 DFD for supermarket app. Why Data Dictionary is used in analysis modeling?
 - (e)Requirements should state what a system should do, without stating how it should do it. Why is this distinction useful?
 - (a) Discuss various activities of software project planning.
 - (b) Consider a project with the following parameters. i. External Inputs:
 - 10 with low complexity
 - 15 with average complexity
 - 17 with high complexity
 - ii. Number of External outputs: 42 ,
 - iii. Number of user enquires: 08
 - iv. Internal logical files:
 - 2 with average complexity
 - 1 with high complexit;
 - v. External Interface files:
 - 9 with low complexity

In addition to above, system requires

- Significant data communication
- Performance is very critical
- Designed code may be moderately reusable

Other complexity adjustment factors are treated as average. Compute Unadjusted and Adjusted

function point counts.

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iv. Data flow Architecture

 $[4 \times 2]$