MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code : CS-701

SOFTWARE ENGINEERING

Time Allotted: 3 Hours

Full Marks: 70

The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words
as far as practicable.

Group – A

(Multiple Choice Type Questions)

1. Choose the correct alternative of the following: http://www.makaut.com

1×10=10

(i) Tracking the correspondence between the design component and the SRS is known as
   (a) availability
   (b) traceability
   (c) maintainability
   (d) reliability

(ii) When the two bubbles are interconnected directly, it is referred as
   (a) Serial DFD
   (b) Direct DFD
   (c) Synchronous
   (d) Balanced DFD

   answer not found

(iii) DFD balancing means
   (a) balancing of weight of processes.
   (b) must match the total number of bubbles.
   (c) must match the data flow at the next level of DFD.
   (d) None of the above   http://www.makaut.com

(iv) System Testing is performed by a friendly set of customer is known as
   (a) Alpha Testing
   (b) Beta Testing
   (c) Performance Testing
   (d) Usability Testing

Turn Over

(v) Function Point describes

(a) the SRS document.

(b) the test plans.

(c) the functional decomposition.

(d) the size of a software product direct from its specification.

(vi) The potential risks are best detected by   http://www.makaut.com

(a) Spiral Model

(b) Waterfall Model

(c) Incremental Model

(d) Prototyping Model

(vii) The most desirable form of cohesion is

(a) sequential cohesion

(b) procedural cohesion

(c) coincidental cohesion

(d) functional cohesion   worst-coincidental

(viii) Software testing is the

(a) process of demonstrating that errors are not present.

(b) process of establishing confidence that a program does what it is supposed to do.   All seem to be correct

(c) process of executing a program to show that it is working as per specifications.

(d) process of executing a program with the intent of finding errors.

(ix) The best type of coupling is   http://www.makaut.com

(a) coincidental

(b) logical

(c) informational

(d) functional

(x) Big Bank Integration testing is useful for project with

(a) smaller number of modules

(b) large number of modules

(c) average number of modules

(d) None of these   answer not found

Group – B

(Short Answer Type Questions)

Answer *any three* of the following.   5×3=15

2. "Spiral model is not a panacea"; explain the meaning of the statement. Also state why spiral is called a Meta-model.   2+3=5

3. What are the different methods of information elicitation?   http://www.makaut.com

4. What are the metrics for estimation of software? State characteristics of feature point metrics.   3+2=5

5. What are the major components of SRS?

6. Develop a work breakdown structure specification for showing the process of admission to an engineering college. Assume major phases as exam preparation, entrance exam, admission criterion, and counseling and fees payment. Also write the output of each major task performed.