## StudentBounty.com **Diplete - CS (NEW SCHEME) - Code: DC65**

Subject: SOFTWARE ENGINEERING

**Time: 3 Hours** 

## **DECEMBER 2010**

**NOTE: There are 9 Ouestions in all.** 

- Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else.
- The answer sheet for the Q.1 will be collected by the invigilator after half an hour of the commencement of the examination.
- Out of the remaining EIGHT Questions answer any FIVE Questions. Each question carries 10 marks.

(D) software is always correct

• Any required data not explicitly given, may be suitably assumed and stated.

## Q.1 Choose the correct or the best alternative in the following:

 $(2 \times 10)$ 

Max. Marks: 100

- a. Which is not a software characteristics?
  - (**B**) software is flexible (A) Software does not wear out
  - (C) Software is not manufactured
- b. Product is-
  - (A) Deliverables
  - (B) User expectations
  - (C) Organisation's effort in development
  - (D) None of the above
- c. Which is not a product metric?

(A) size	( <b>B</b> ) reliability
(C) productivity	<b>(D)</b> functionality

d. Which is not a process metric?

(A) productivity	( <b>B</b> ) functionality
(C) quality	(D) efficiency

e. Effort is measured in terms of:

(A) person-months (PM)	( <b>B</b> ) rupees (Rs)
(C) persons (P)	( <b>D</b> ) months (M)

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f.	An independently deliverable piec services through interfaces is called	e of a functionality providing access to (B) software composition (D) software component ent is dependent on
	<ul><li>(A) software measurement</li><li>(C) software measure</li></ul>	<ul><li>(B) software composition</li><li>(D) software component</li></ul>
g.	Management of software developme	ent is dependent on
	<ul><li>(A) people</li><li>(C) process</li></ul>	<ul><li>(B) product</li><li>(D) all of the above</li></ul>
h.	Software consists of	
	<ul> <li>(A) Set of instructions +operating sy</li> <li>(B) Programs +documentation +ope</li> <li>(C) Programs + hardware manual</li> <li>(D) Set of programs</li> </ul>	
i.	During software development, whic	h factor is most crucial?
	<ul><li>(A) people</li><li>(C) process</li></ul>	<ul><li>(B) product</li><li>(D) project</li></ul>
j.	Program is	
	<ul><li>(A) subset of software</li><li>(C) software</li></ul>	<ul><li>(B) superset of software</li><li>(D) none of the above</li></ul>

## Answer any FIVE Questions out of EIGHT Questions. Each question carries 16 marks.

Q.2	a.	Explain the UI Design principles in detail.	(8)
	b.	Discuss the difference between cohesion & coupling.	(8)
Q.3	a.	Explain various Risk Management activities.	(8)
	b.	What are the various activities during Software Project Planning?	(8)
Q.4	a.	A university wishes to develop a software system for Library Management activities. Design the problem statement for the software company.	(8)

		Ste	(8) (8)
	b.	Write about crucial process steps of Requirement Engineering.	CITHO
Q.5	a.	Explain the textual & graphical information presentation.	(8)
	b.	What is unit testing? Explain the structural testing in detail?	(8)
Q.6	a.	Explain the software prototype model. List the benefits of develop prototype early in the software process.	ping a (8)
	b.	List various Software Quality Attributes along with their purpose.	(8)
Q.7	a.	What is the objective of designing a software? Why Design is so important	t?( <b>8</b> )
	b.	Explain Modular Decomposition Style and Write various properties of a Modular System.	(8)
Q.8	a.	What is Software Testing? Differentiate between white box testing and bla box testing.	ck (8)
	b.	Justify the statement "Existing program components can be reused". What various steps of the Reuse Model?	are (8)
Q.9	a <b>.</b>	Differentiate Verification and Validation & Explain their important Software Development.	ice in (8)
	b.	Define Software Metrics. Explain its area of application.	(8)

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