# **Diplete – CS (OLD SCHEME)**

Code: DC15 **Time: 3 Hours**  Subject: SOFTWARE ENGINEER

Max. Marks:

**JUNE 2011** 

NOTE: There are 9 Questions in all.

- StudentBounts.com • 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 45 Minutes of the commencement of the examination.
- Out of the remaining EIGHT Questions answer any FIVE Questions. Each question carries 16 marks.
- Any required data not explicitly given, may be suitably assumed and stated.

#### 0.1 Choose the correct or the best alternative in the following:

 $(2 \times 10)$ 

- a. PERT chart is used in activities:-
  - (A) project development (**B**) project planning (C) Project scheduling
    - (D) project cost estimation

## b. Which term is applicable to function abstraction?

(A)	Requirement specification	<b>(B)</b>	Coupling
<b>(C)</b>	Project planning	<b>(D</b> )	Encapsulation

### c. Basis path testing is a technique for

(A) control structure	( <b>B</b> ) program structure
(C) design structure	( <b>D</b> ) data structure

### d. CASE stands for

- (A) Computer Assisted System for Engineers
- (B) Computer Aided Software Engineering
- (C) Computer Application System Engineer
- (D) Computer Aids for System Engineer

### e. Coupling is related to

(C) systems design

(A)	project planning	<b>(B)</b> requirement specification
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- **(D)** systems maintenance
- f. COCOMO model was proposed by

<b>(A)</b>	Putnam	( <b>B</b> ) Boehm
<b>(C)</b>	Booch	(D) Beizer

g. Modifying the software for ever charging environment

(A) Adaptive maintenance

- (C) Perfective maintenance
- h. PDL stands for
  - (A) Program Design Language
- StudentBounts.com (B) Process Description Language

(B) Corrective maintenance

(D) Preventive maintenance

- (C) Program Definition Language (D) Process Design Language
- Coding phase begins immediately after i.
  - (A) Requirement analysis (C) Project planning phase
    - (B) Software design phase
      - (D) Prototyping process
- j. Which of the following statements is NOT true about object oriented design?
  - (A) It requires vaulting between phases.
  - (B) It is at a higher level of abstraction.
  - (C) It supports good programming techniques.
  - (D) It promotes reuse.

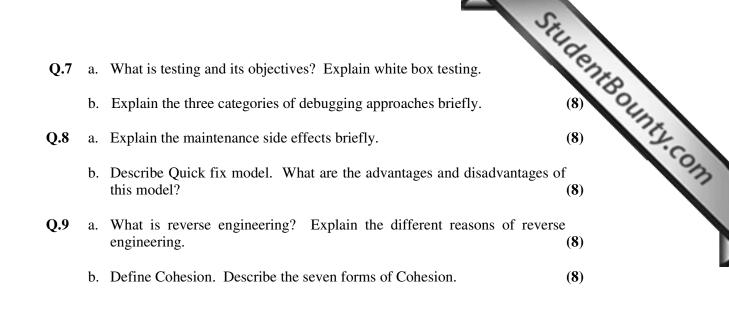
# Answer any FIVE Questions out of EIGHT Questions. Each question carries 16 marks.

Q.2	a.	Explain spiral model briefly.	(8)
	b.	Describe the management myths and practitioners myth about software.	(8)
Q.3	a.	Explain the mechanics of structured analysis.	(8)
	b.	What are the information need by the analyst? Explain feasibility study of the project.	of (8)
Q.4	a.	Explain in detail the COCOMO model.	(10)
	b.	Write the minimum set of guidelines for formal technical reviews.	(6)
Q.5	a.	Explain software procedural design notations briefly.	(8)
	b.	Differentiate between dynamic modelling and functional modelling.	(8)
Q.6	a.	What is Information Hiding?	(4)
	b.	Explain top-down and bottom up programming practice briefly.	(4)
	c.	What is Unit Testing? Explain with the help of an example.	(8)

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