ROLL NO.	

Code: DC120 Subject: SOFTWARE TESTING

Diplete - CS {NEW SCHEME}

Time: 3 Hours June 2019 Max. Marks: 100

PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

NOTE: There are 9 Questions 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 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.

Q.1	Choose the correct or t	he best a	lternative in tl	he fol	llowing:	(2×10)
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- a. What direct measures include in the Software product?
 - (A) Line of Code (LOC)
- (B) Execution Speed
- (C) Defect reported
- (**D**) All of these
- b. Which of the following is not a part of Performance Testing?
 - (A) Measuring Transaction rate
- (B) Measuring response time
- (C) Measuring the LOC
- (**D**) None of these
- c. Software is divided into separately Named and addressable components, and it's called
 - (A) Software

(B) Cohesion

(C) Module

- (**D**) Link
- d. In SDLC, who is the best person to catch a defect?
 - (A) Softwaretester

- (B) Customer
- (C) Business Analyst
- (**D**) Developer
- e. The model which estimates the total efforts in terms of person, months of technical project staff is
 - (A) Spiral Model

- (B) Waterfall model
- (C) Prototype model
- (D) COCOMO model
- f. A domain that is linear, complete, consistently closed & simply connected can be called as:
 - (A) good

(B) ugly

(C) nice

- (D) bad
- g. Which is a Formal Review Technique?
 - (A) Walkthrough

(B) Peer to peer review

(C) Inspection

(**D**) Meeting

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	h.	How many types of graphs are in QC? (A) 4 (B) 5
		(C) 6 (D) 7
	i.	Relational Algebra was first described by (A) Boehm (B) William Stalling (C) E.F. Codd (D) John Henry Holland
	j.	During software designing developer always try level of "Cohesion" and Level of "Coupling" for best outcome. (A) Low, High (B) High, Low (C) Low, Low (D) High, High
		Answer any FIVE Questions out of EIGHT Questions. Each Question carries 16 Marks
Q.2	a.	Explain PDCA Cycle and where testing fits in this? (6)
	b.	Explain prototype model in SDLC. Also explain how this model overcome the limitations of waterfall model? (10)
Q.3	a.	What is cohesion and coupling? Also define functional and non functional testing in detail. (10)
	b.	What is integration testing? Explain Top-down & Bottom-up integration testing with neat diagram. (6)
Q.4	a.	What is the difference between interoperability testing and performance testing? (8)
	b.	Define pilot and installation testing in brief. (8)
Q.5	a.	What is BFSI in transaction testing? Explain. (8)
	b.	What are the Transaction flow techniques? Define in brief. (8)
Q.6	a.	What is the concept of domain in testing? Also explain domain testing. (8)
	b.	Write difference in (i) nice and ugly domain (ii) Domain and interface testing (8)
Q.7	a.	Define path testing & basic path testing with example. (8)
	b.	Explain path expressions and path reduction procedure. (8)
Q.8	a. b.	What is decision table? Why it is important in functional testing? Explain. Write short notes on (i) Predicates (ii) Relational operator (iii) Structural testing (6)
Q.9	a.	What are types of requirements gathered for software development? (8)
~	b.	