ROLL NO.	

Code: DC60/DE123/DC113 Subject: JAVA AND WEB PROGRAMMING

DiplETE - ET/CS (Current & New Scheme)

Time: 3 Hours

June 2018

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, selecting THREE questions from Part A and TWO questions from Part B. Each question carries 16 marks.
- Any required data not explicitly given, may be suitably assumed and stated.

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

 (2×10)

a. What is wrong in the following class definition?
Abstract class print {
Abstract show ();
}
Class display extends print {
}

- (A) Method show () should have a return type.
- **(B)** Method show () is not implemented in display.
- (C) Display does not contain any members.
- (**D**) Nothing is wrong
- b. A URL specifies the following:
 - (i) protocol used
 - (ii) domain name of server hosting web page
 - (iii) name of folder with required information
 - (iv) name of document formatted using HTML
 - (v) the name of ISP
 - (**A**) (i), (ii), (iii), (v)
- **(B)** (i), (iii), (iv)
- **(C)** (i), (ii), (iii), (iv)
- **(D)** (ii),(iii),(iv), (v)
- c. How do objects pass messages in Java?
 - (A) They pass messages by modifying each other's fields
 - (B) They pass messages by modifying the static variables of each other's classes
 - (C) They pass messages by calling static methods of each other's classes
 - (**D**) They pass messages by calling each other's instance methods

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d.	The 'href' tag is used to insert	in HTML.	
	(A) hyperlink	(B) list	
	(C) button	(D) table	
e.	URL identifies a host computer by		
	(A) IP address	(B) domain name	
	(C) Either of these	(D) None of these	
f.	Java Source Code is compiled into _		
	(A) .exe	(B) byte code	
	(C) .obj	(D) Source code	
g.	Which of this access specifier can be used for a class so that its members can be accessed by a different class in the different package?		
	(A) private	(B) protected	
	(C) public	(D) All of these	
h. Which of the methods of Thread class is used to find out the priority given to a thread?			
	(A) get()	(B) ThreadPriority()	
	(C) getThreadPriority()	(D) getPriority()	
i.	What is the correct HTML for addin (A) <body bgcolor="yellow"> (B) <body color="yellow"> (C) <background>yellow</background> (D) <body background="yellow"></body></body></body>		
j.	The specifies whether	er a border should be solid, dashed line,	
	dotted line, double line, groove etc.?		
	(A) border-decoration	(B) border-layout	
	(C) border-weight	(D) border-style	_
	PART A	(Java)	
	Answer any THREE questions. E	Cach question carries 16 marks.	
a.	List the important characteristics of .	Java Language.	(8)
b.	With the help of a suitable figure, de communicates with a web page.	escribe the different steps using which Java	(8)
a.	a. Explain break and continue statements in detail with examples.		(8)
b.	Write a Java program to print output	for n numbers using control statements.	
	Take n from the user.	5	(8)
		1	. ,
		2 2	
		3 3 3	
		4 4 4 4	
		5 5 5 5 5	

Q.2

Q.3

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a. Explain the Methods of overloading and overriding with example for each. **(8)** b. Write a Java program for addition of two metrics. (8)0.5 a. What is a package in Java? Explain different access modifiers of Java. (8)b. How to extend an interface? Illustrate with an example. (8)**Q.6** a. Write a Java program to copy bytes from one file to another file. (8)b. What is an exception? Write an exception subclass which throws an exception if the value of a variable 'age' passed as argument to a method is less than 20 **(8) PART B (Web Programming)** Answer any TWO questions. Each question carries 16 marks. a. What are name servers? What are the three elements of DNS? **Q.7** (6+2)b. Explain dynamic web page generation. **(4)** c. Explain HTTP transaction in details. Give the difference between GET and POST methods of HTTP. (2+2)a. Describe the elements of web design. **(6)** 0.8 b. A common mistake is to begin creating web pages before doing sufficient groundwork on the information blueprint for a site. Discuss the various steps of Information Architecture to be followed for designing the website. (10)a. What is the outline of a CGI program? Briefly explain. **(8) Q.9** b. Explain the essential parts of a typical form. (8)