## 2021

Time: 3 hours Full Marks: 60

Candidates are required to give their at swers in Their own words as far as practice bee.

The figures in the margin indicate full marks.

Answer from all the Groups as directed.

Group - A (Compulsory)

	((	Compulso	ry)	
(1) Choose the correct answer for the following: X10 = 10				
(A) Which provides run	ntime environment	t for java byte c	ode to be à accuted	1?
(I) JDK	MIJVM	(III) JRE	(IV) JAV	AC
(B) The \u0021 article	referred to as a			
(I)Unicode escape s	equence (II) Oct	al escape (II	I) Hexadec mal	(IV) Line feed
(C) is used to f	ind and fix bugs in	n the Java progr	ams.	
(I)JVM (II) JR	E (MI) JDK	(IV) JDB		
(D) What is the return			the Object lass?	
(l)Object (W) in	t (III)long	(IV)void		
(E) Which of the follo	wing is a valid lon	g literal?		
(I)ABH8097 (II)	L990023 (III)	904423 (1	W) 0xnf02 )1	
(F) What does the exp	ression float a = 3.	5 / 0 return?		
(I) 0 (II) Not a N	Number (1111)	Infinity —	V) Run tin e excep	tions
(G) Which of the follo		to generate API	document it on in	HTML format from
(I)javap tool (II)	javaw command	(MI)Javadoc	tool (1') avah	command

(H) Which method of the Class. Class is used to determine the name of a class represented by the class object as a String?

(I)getClass() (II)intern() (III)getName() (IV)toStrin !!

(I) In which process, a local variable has the same name as one of he instance variables?

(I)Serialization (II)Variable Shadowing (III)Abstraction (IV)Multi-threading

(J) Which package contains the Random class?

(I)java.util package

(II)java.lang package

(III)java.awt package

(IV)java.io package

2. When the constructor of a class is invoked? Explain with example IX5=5

## Group-B

Answer any three questions of the following:

15x3 = 45

- (3) (I) what are the various access specifiers for Java classes? Explain briefly.
  - (II) Explain Feature of Java with Example.
- (4) (I) what are Loops in Java? What are three types of loops?
  - (II) Write a program in java for greatest of three numbers.
- (III)What the difference is between continue and break statement? Explain with example.
- (5)(I) Write a program to allow a user to cast his vote it le is a Indian citizen and his age is 18 or above years.
  - (II) How can you generate random numbers in Java? In plain with Example
- (6) (I) Can a class be a super class and a sub-class at the same time? Give example.
- (II) What's the difference between comparison done by equals method and == operator? Explain with example.
- (7) What is Applet? Explain types of applet. Write a program to give example of Applet