(6 pages)	Reg. No.:	
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Code No.: 30692 E Sub. Code: SMCA 31

B.C.A. (CBCS) DEGREE EXAMINATION, NOVEMBER 2020.

Third Semester

Computer Application - Core

JAVA PROGRAMMING

(For those who joined in July 2017 onwards)

Time: Three hours Maximum: 75 marks

PART A — $(10 \times 1 = 10 \text{ marks})$

Answer ALL questions.

Choose the correct answer:

- 1. are used to perform manipulation of individual bits of a number
 - (a) Assignment operator
 - (b) Bitwise operator
 - (c) Logical
 - (d) Boolean

two	datatypes are a		on takes place wher llly converted
	widening		automatic type
(c)	explicit	(d)	both (a) and (b)
a cla	ass but outside a		are variables within
(a)	class	(b)	instance
(c)	local	(d)	new
(a) (c)		, ,	Encapsulation All the above
conc		is a Java	All the above features that allow or more parts of a
(a)	Multithreadin	g	
(b)	Interface		
(c)	Single thread		
(d)	Thread object		

Page 2 **Code No. : 30692 E**

6.	locki		s muti	keyword in Java provides mutually exclusive access				
	(a)	Synchronization	(b)	Pointer				
	(c)	Multithreaded	(d)	Volatile				
7.		———— have strict security rules that						
	are e	are enforced by the web browser						
	(a)	Main ()	(b)	Applet				
	(c)	Base applet	(d)	HTML				
8.		The object of — class is a component for placing text in a container						
	(a)	super class	(b)	base class				
	(c)	label	(d)	adapter class				
9.		with a scrolling lis		nponent presents the xt items				
	(a)	text field	(b)	list				
	(c)	checkbox	(d)	canvas				
10.		ene	capsul	ates a blank window				
	upor	upon which you can draw						
	(a)	frame	(b)	canvas				
	(c)	window	(d)	list				

Page 3 Code No. : 30692 E

PART B — $(5 \times 5 = 25 \text{ marks})$

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Explain Boolean and character literals.

Or

- (b) What is modulus operator with an example?
- 12. (a) Write short notes on Garbages collection.

Or

- (b) Discuss Recursion with an example.
- 13. (a) What is java-nested try statements with example?

Or

- (b) Write a java program to demonstrate deadlock using main thread.
- 14. (a) Write a program to create a Hello World applet.

Or

(b) Write a java program to create on Button Click using action listener.

Page 4 Code No.: 30692 E

[P.T.O.]

15. (a) Explain the different types of containers.

Or

(b) Explain the flow layout in layout manages.

PART C —
$$(5 \times 8 = 40 \text{ marks})$$

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain the Multidimensional arrays in Java with example.

Or

- (b) Explain the overview of java object oriented programming.
- 17. (a) Explain the methods in Java with example.

Or

- (b) Write a java program to demonstrate overriding and access modifiers.
- 18. (a) Discuss the types of exception in Java with example.

Or

(b) Explain multithreading in java with examples.

Page 5 Code No.: 30692 E

19. (a) What is Applet? Explain the life cycle of an applet.

Or

- (b) Explain HTML / applet tag with example.
- 20. (a) Explain the concept of window and advanced component in Java.

Or

(b) Explain in detailed about menu bars in Java.

Page 6 Code No. : 30692 E