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BACHELOR OF COMPUTER APPLICATIONS (B.C.A.) SPECIALIZATION IN CYBER SECURITY (CS)

EXAMINATION: JUNE-2022

SEMESTER - IV

Sub: Java / Java Programming

(BCA-431/441/BCA-440-18/BCA-440-20/BCA-CS-440-20)

Date	: 13	/06/2022	Total Marks	: 60	Time: 02.00 pm to 4.30	pm
	 Instructions: All questions are compulsory unless and otherwise stated. Bold figures to the right of every question are the maximum marks for that question. Candidates are advised to attempt questions in order. Answers written illegibly are likely to be marked zero. Use of scientific calculators, Log tables, Mollier Charts is allowed. Draw neat and labelled diagrams wherever necessary. 					
Q.1.	Fil	l in the blanks.				(5)
	1.	What is byte code i a) name of java sou c) code generated b	rce code file	_	erated by java compiler code written inside a	
	2.	a) sleep() c) stop()	is used to wait for a three	ad to finish. b) join() d) isAlive()		
	3.	a) this c) super	ntor dynamically allocate	s memory for b) new d) class	r an object	
	4.	Default access spec a) static c) public	ifier for the members de-	b) abstract d) private	interface is	
	5.	The wrapping of da a) inheritance c) abstraction	ta and functions into a si	ngle unit is c b) encapsula d) polymorp	ation	
Q.2.	State True/False.					(5)
	1.	Constructor can have				
	2.	Applet contains the				
	3.	Interface can be ins				
	4.	All the classes in java.lang package are automatically imported when a program is compiled.				
	5.	The garbage collection will run immediately the system is out of memory.				

Q.3. Answer the following. (Solve any 5)

(10)

- 1. Explain the constructor and types of constructor
- 2. What is difference between default and protected access specifier.
- 3. What is multi threading?
- 4. What is finally keyword?
- 5. What is the use of this keyword.
- 6. Define the use of package.

Q. 4. Answer the following in detail. (Solve any 6)

(30)

- 1. What is difference between abstract class and interface.
- 2. How exception handling is done in java?
- 3. Explain static variable and static methods.
- 4. Explain the OOPS features
- 5. Explain thread life cycle events.
- 6. List different modifiers.
- 7. Difference between string and stringbuilder.

Q. 5. Answer the following in detail. (Solve any 1)

(10)

- 1. Write a java program to reverse the given number.
- 2. Write a program to print factorial of a given number.