Name	
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Reg. No.

# FIFTH SEMESTER B.Sc. DEGREE (SUPPLEMENTARY/IMPROVEMENT) EXAMINATION, NOVEMBER 2016

(UG-CC88)

Computer Science

## CS 5B 09—JAVA PROGRAMMING

(2012 Admission onwards)

ime : Three Hours

Maximum: 30 Weightage

Turn over

### Part A

This part consists of three branches of questions carrying equal weightage of 1.

Each bunch consists of four objective questions.

Answer all questions.

1.	The da	ita or variables de	nned within a d	ciass are	called ———.		
	(a)	Variable.		(b)	Instance variables.		
	(c)	Object.		(d)	Class variable.	*	
2.	Except	ion falls in the ba	se class ———	<b></b>			
	(a)	Throw.	CLO.	(b)	Exception.		٠,,
	(c)	Thowable.		(d)	Exceptions.		
3.	Divisio	n by Zero is a typ	e of ——— ex	ception.	· ·		
	(a)	Array Index Out	Of Bounds Ex	ception.			
	(b)	Arithmetic Excep	ption.		,* <u> </u>	,	•
	(c)	IO Exception.	\$- 3k		· · · · · · · · · · · · · · · · · · ·	K (9)	
	(d)	Un caught Excep	ption.			20.22	
١.	Conside	er the following d	leclaration int	m = 18,	n = 4. The value of the expr	ession m/n +	m%n
	is	<del></del> .			• .		8
	(a)	6.	· ·	(b)	6.5.	540	
2	(c)	9.	0 20	(d)	3.	_	
j		– is generated afte	er the successfi	ul compi	lation of the source code.	5.4.	
•	(a)	Object.	n	(b)	Bytecode.	•	•
	(c)	Exception.		(d)	Error.	*. · · · · · · · · · · · · · · · · · · ·	•
					54		

(a)	Robustness.	(b)	Reusability.			
(c)	Readability.	(d)	Reliability.			
A	is a collection of classes.	*) (h)		*	_ 8	
(a)	Object.	(b)	Package.	5.0		
(c)	Method.	(d)	Interface.		± .	
The me	thods of interface are ——— by	defau	lt.	Ŧ		4
(a)	Static.	(b)	Abstract.	v.		
(c)	Final.	(d)	None of the above.	7.		
The firs	st method called by an applet is —	11	· ·	•		2
(a)	init().	(b)	paint().	187	:	
(c)	update().	(d)	draw().			
The pa	ckage that contains Color class is -	×	<i>5</i> 7.			
(a)	java.applet.	(b)	java.awt.		4.5	
(c)	java.graphics.	(d)	java.lang.			
What is	s an immutable object?		•		8-	
(a)	An immutable object can be chan	ged o	nce it is created.			
(b)	An immutable object can't be cha	nged	once it is created.			
(c)	An immutable object is an instan	ce of	an abstract class.			
(d)	None of the above.					
		sed to	change the size of a java	awt comp	onent o	bject?
					*	
	2	, (d	) size().			. 2
(0)	***************************************			(12 × 1/4	= 3 we	ightag
	(c) A (a) (c) The me (a) (c) The firs (a) (c) The pa (a) (c) What i (a) (b) (c) (d) Which (a)	A ————————————————————————————————————	(c) Readability. (d)  A ———————————————————————————————————	(c) Readability.  (d) Reliability.  A ———————————————————————————————————	(c) Readability. (d) Reliability.  A ———————————————————————————————————	(c) Readability.  (d) Reliability.  A ———————————————————————————————————

## Part B

Answer all **nine** questions.

Each question carries weightage of 1.

- 13. What are wrapper classes?
- 14. What are literals?
- 15. What is the purpose of import statement?

6. The main advantage of Inheritance is -

16. Give the syntax for declaring one dimensional and two dimensional arrays in Java.

- 17. What is Dynamic method dispatch?
- 18. Which are the different ways of creating a Thread?
- 19. What is synchronization?
- 20. What is AWT?
- 21. What is a Canvas?

 $(9 \times 1 = 9 \text{ weightage})$ 

## Part C (Short Essay or Paragraph Questions)

Answer any five questions. Each question carries weightage of 2.

- 22. With an example, explain enumeration in Java.
- 23. Briefly explain the JDBC components.
- 24. Explain interfaces with an example.
- 25. Explain the AWT controls Button and TextField with their constructors and examples.
- 26. Explain any three Color class constructors in Java.
- 27. Explain the working of while and do., while with syntax and example.
- 28. Explain List in Java with an example.

 $(5 \times 2 = 10 \text{ weightage})$ 

#### Part D

Answer any two questions.

Each question carries weightage of 4.

- 29. Explain with diagram the life cycle of an Applet.
- 30. Explain the various Exception Handling mechanisms in Java.
- 31. Write a Package to find factorial of a number. Import the Package to find ncr.

 $(2 \times 4 = 8 \text{ weightage})$