

BRAINWARE UNIVERSITY

Programme – Master of Arts in Multimedia & Web Development

Course Name - OOPs Programming with Java

Course Code - MMW301B

(Semester - 3)

Time allotted: 3 Hours Full Marks: 70

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

				Group -A		
		(Multiple	Choice Type	$10 \times 1 = 10$		
1.	Choos					
(i)	Java is	s a language.				
	a.	weakly typed	b.	strongly typed		
	C.	moderate typed	d.	None		
(ii)	Progra					
	a.	java.lang	b.	javac		
	C.	java.util	d.	none		
(iii)	OOP's	s concept the approach is				
	a.	Top Down	b.	Bottom Up		
	c.	Middle Left	d.	None		
(iv)	The term used to data hiding is					
	a.	Encapsulation	b.	Encoding		
	c.	Encryption	d.	None		
(v)	Size o	f int in java is				
	a.	16 bit	b.	32 bit		
	c.	64 bit	d.	None		

(vi)	Which	n of the following are invalid varia	ble nar	me	
	a.	Minimum	b.	5thcolumn	
	c.	n1+n2	d.	none	
(vii)	In java	a the word true is			
	a.	A Java keyword	b.	A Boolean literal	
	c.	Same as value 1	d.	Same as value 0	
(viii)	Which	of the following arithmetic expre	ssions	are valid?	
	a.	$Area=r^2+2rh$	b.	Torque=2m1m2m3	
	c.	Energy=mass*(acceleration * high+velocity ² /2)	d.	None	
(ix)	A cons	structor is a special :-			
	a.	keyword	b.	variable	
	c.	class	d.	none of the above	
(x)	Bindir	ng data and function together is:			
	a.	Inheritance	b.	Encapsulation	
	c.	Polymorphism	d.	None of the above.	
		Gro	up – I	3	
		(Short Answer	Type (Questions)	$3 \times 5 = 15$
Ansv	ver any <i>tl</i>	hree from the following			
2.	Write ab	out the features of OOPS.			5
3.	i) What	is a garbage collector?			2
	ii) Expla	in it with an example			3
4.	Explain	5			
5.	Explain final, finally and finalize () in java.				
6.	Write a program in Java to add 2 nos. using command line argument.				

Group-C

(Long A	Answer	Type	Ç	uestions))

 $3 \times 15 = 45$

Answer	any	three	from	the	foll	lowing

7.	(a)	Write a program in Java to calculate the factorial of number. The number will be supplied by the user externally.	8
	(b)	Write a program in Java to reverse a number. The number will be supplied by the user externally.	7
8.		Write a program in java to create a class employee which will have name, age, salary as a data member. The class will contain default constructor, parameterized constructor and also copy constructor. The class will also have a member function show () which will display the details of the employee. Create 3 different types of objects demonstrating the use of each type of constructor.	15
9.	(a)	Write a program in java to calculate the sum of 1+2+3++n.	7
	(b)	Write a program in java to check whether a number is prime or not.	8
10.	(a)	What are the importance of interface in Java?	2
	(b)	Explain with a suitable example?	7
	(c)	Explain function overloading with a suitable example?	6
11.	(a)	What is a byte code?	2
	(b)	How will you compile a java file?	4
	(c)	What is a Thread?	2
	(d)	Write a program in java to demonstrate the use of function overloading?	7
