No. of Printed Pages: 4

MCS-024

MCA (Revised) / BCA (Revised)

Term-End Examination, 2019

MCS-024 : OBJECT ORIENTED TECHNOLOGIES
AND JAVA PROGRAMMING

Time: 3 Hours

(Woightogo 75%)

(Weightage 75%)

Note: Question no. 1 compulsory and carries 40 marks.

Attempt any three questions from the rest.

- (a) How String Buffer differs from String? Write a program in Java, which takes your name as input and print it in upper case.
 - (b) How does Java handle events? Write a program in Java to capture an event generated by keyboard.
 - (c) What are the uses of "this" keyword in Java?

 Explain with the help of an example. What is an applet?

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(e) What do you understand by session tracking in	(e)			
Java ? Discuss any technique, used for session	· ,			
tracking.				
(f) Differentiate between superclass and	(f)			
subclass. Write a program in Java to show the	, ,			
concept of reusability. [5]				
(g) What's exception in Java ? How exception	(g)			
handling is performed, demonstrate with an	(3)			
example? [5]				
(h) Explain constructor overloading with suitable	(h)			
example. [5]	(11)			
2. (a) What is checked exception in java? How it is	2. (a)	2.		
different from unchecked exception? Explain	_,			
briefly. [5				
(b) Write a Java program to find whether a giver	(b)			
element is present in a integer array of size ter	(12)			
of not		٠.		
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Write a program to generate a circle in an

[5]

(d)

applet?

(c)	What is a layout manager ? Discuss	the Flov
	layout and grid layout, give suitable ex	ample fo
	each.	[10

- 3. (a) Briefly explain the role of following classes in Java

 Network programming: [5]
 - (i) Socket
 (ii) Datagram Packet
 - (b) What is the difference between a process and a thread? Mention any three methods of thread class and describe them briefly. [8]
 - (c) What is an event? What are components of an event? Differentiate between semantic event and low-level event. [7]
- 4. (a) Write a Java program to create shape class.

 Overload method area () to calculate area of circle and rectangle. Define appropriate constructors in the program. [6]
 - (b) What are Input stream and output stream classes in java? List and explain any two methods of each

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(c) Explain how garbage collection takes place in java, also list advantages of garbage collection.

[4]

- (d) What is an interface? Write a java program to show, how a class implements two interface.[5]
- 5. Write short notes on the following: [20]
 - (i) Java Beams and its advantages
 - (ii) Class and wect
 - (iii) Applet Architecture
 - (iv) Access specifiers
 - (v) Bitwise operators in java

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