QUESTION BANK 2017

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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY :: PUTTUR (AUTONOMOUS)

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QUESTION BANK (DESCRIPTIVE)

Subject with Code : OOPs through Java (16MC805)	Course & Branch: MCA
Year & Sem: I-MCA & II-Sem	Regulation: R16

<u>UNIT –I</u>

JAVA BASICS

1.	Explain various operators in java	12M
2.	Explain the different control structures in java	12M
3.	Explain the following concepts	
	(a) Encapsulation	02M
	(b) Polymorphism	05M
	(c) Inheritance	05M
4.	Explain the java buzzwords in detail	12M
5.	Explain in detail about the constructors.	12M
6.	(a) What is overloading?	3M
	(b) Explain method overloading and constructor overloading with example.	9M
7.	(a) What is recursion?	2M
	(b) Write and explain the program that implements recursion.	10M
8.	Explain	
	(a) Constructors	4M
	(b) Destructors	2M
	(c) super	3M
	(d) this	3M
9.	(a) Explain at least 8 string methods in detail.	6M
	(b) Write a java program to compare two strings.	6M
10.	Write a java program to implement matrix ADT class with operations	12M
	(a) Reading (b) Writing (c) Addition (d) Subtraction (e) Printing	

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<u>UNIT –II</u>

INHERITANCE, INTERFACES, INNER CLASSES, PACKAGES

1.	(a) What is inheritance?	2M	
	(b) Explain inheritance types and advantages with appropriate program.	10M	
2.	(a) What is an interface?	2M	
	(b) How will you define and access an interface?	10M	
3.	Explain the late binding and early binding in polymorphism with an example pro	gram.	12M
4.	(a) What is package?	4M	
	(b) How will you create and access a package?	8M	
5.	(a) What is abstract class? Explain.	4M	
	(b) Give differences between an interface and an abstract class.	8M	
6.	(a) Explain the final and super in detail	6M	
	(b) Write a program that illustrates the preventing of inheritance.	6M	
7.	(a) Write a program that implements multilevel hierarchy. Explain.	6M	
	(b) Write a program that illustrates the abstract class. Explain.	6M	
8.	(a) What is an Inner class? What are its uses?	6M	
	(b) Write a program that illustrates inner class.	6M	
9.	Explain anonymous and static inner classes in detail.	12M	
10	. Write a program that implements package and inheritance concepts.	12M	

<u>UNITI-III</u>

Data structure creation and manipulation, Files, Networking

1.	Explain in detail about the ArrayList in detail with a program.	12M
2.	Explain in detail about the LinkedList in detail with appropriate program.	12M
3.	(a) What is StringTokenizer? Write a program to add the given numbers using	
	StringTokenizer?	5M
	(b) What is a List? Write a program to implement List using LinkedList	7M
4.	Explain the iterator and list-iterator in detail.	12M
5.	(a) Explain the predefined streams in java	5M
	(b) Explain the reading and writing with console I/O.	7M
6.	(a) What is InputStream, OutputStream.	4M
	(b) Explain the methods of InputStream and OutputStream.	8M
7.	Explain the Reader and Writer of character streams with their methods.	12M
8.	(a) What is DataInputStream and DataOutputStream?	6M
	(b) Write a program that demonstrates DataInputStream and DataOutputStream.	6M
9.	Write a java program to read the file contents and copy the content to other file.	12M
10.	(a) What is Datagram? Brief about DataGramPacket.	6M
	(b) Write a java program for DataGram server and client.	6M

UNIT-IV

Exception Handling, Multithreading

1.	(a) What is an exception?	4M
	(b) Explain the benefits of handling the exception?	8M
2.	(a) Explain the trycatch() block in detail.	7M
	(b) Write a program to handle an exception using trycatch block.	5M
3.	Explain the different ways of handling the exceptions in detail.	12M
4.	Explain the following	
	(a) Exception types	3M
	(b) Uncaught exceptions	4M
	(c) Multiple catch clauses	5M
5.	Explain the following in detail with example	
	(a) throws	3M
	(b) throw	3M
	(c) finally	6M
6.	(a) What is rethrowing of exception, chained exception.	6M
	(b) Write a program to create a user defined exception.	6M
7.	(a) What is a thread? What is multithreading?	5M
	(b) Explain the life cycle of a thread.	7M
8.	Explain the different ways in which thread can be created. Also write programs	s for
	each type.	12M
9	(a) Explain the atleast 8 thread methods in detail.	7M
	(b) Explain the various thread priorities.	5M
10.	Explain the interthread communication in detail.	12M

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<u>UNIT-V</u>

GUI programming, Event handling, Applets

1.	(a) What is an applet? Explain briefly.	5M
	(b) Explain the life-cycle of an applet.	7M
2.	(a) Explain the paint(), repaint(), drawstring() methods.	7M
	(b) Write a simple banner applet program.	5M
3.	Explain the following	
	(a) KeyEvent class	4M
	(b) MouseEvent class.	4M
	(c) MouseWheelEvent class.	4M
4.	(a) Explain the different sources of events.	5M
	(b) Explain the KeyListener, MouseListener, MouseMotionListener interfaces.	7M
5.	Write a program to handle Key events. Also explain in detail.	12M
6.	Write a program to handle Mouse events in detail.	12M
7.	(a) Write about the window fundamentals.	5M
	(b) Explain the methods of Frame windows.	7M
8.	Explain the following	
	(a) Drawing lines	4M
	(b) Drawing rectangles	4M
	(c) Drawing circles	4M
9.	(a) What is JApplet?	3M
	(b) Explain	
	(i) JTextField	3M
	(ii) JButton	3M
	(iii) JCheckBox	3M
10.	Explain the	
	(a) JRadioButton	4M
	(b) JComboBox	4M
	(c) JTable	4M

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OOPs THROUGH JAVA