



Advanced Programming Exam Bank

Multiple Choice

1. Which of the	he following statement is invalid?		
A.	<pre>JLabel prompt = new JLabel();</pre>		
B.	<pre>JLabel prompt = new JLabel("Name");</pre>		
C.	<pre>JTextField input = new JTextField(15);</pre>		
D.	JTextField input = new JTextField("Name", "Jo	ohn");	
2. Which one	of the following components that enables the user	to cho	oose a single value or multiple
values at a	time?		
A.	JTextField	C. JI	List
B.	JComboBox	D. JI	Label
3. Clicking a	JComboBox object generates event/s.	•	
A.	ActionEvent	D. C	ontainerEvent
B.	ItemEvent	E. A	and B
C.	ComponentEvent		
4. Which type	e of button is a toggle button that belongs to a gro	oup su	ch that only one button in the
group may	be selected at one time?		
A.	Radio button	C.	Menu item
B.	Checkbox	D.	Panel
5. Which com	ponent cannot be added to a container?		
A.	JPanel	C.	JFrame
B.	JButton	D.	JComponent
6. Clicking th	e closing button on the upper-right corner of a fran	ne gen	erates a(n) event.
A.	ItemEvent	D.	ComponentEvent
B.	WindowEvent	E.	ContainerEvent
C.	MouseMotionEvent		
7. Which of the	hese packages contains all the event handling inter-	faces?	
A.	java.lang	C.	java.awt.event
B.	java.awt	D.	java.swing.event
8. Which of the	he following components generate action events?		
A.	Buttons	C.	Check boxes
B.	Labels	D.	Windows
9. Which of the	hese methods are used to register a mouse motion l	listene	r?
A.	addMouse()	C.	addMouseMotionListner()
B.	addMouseListener()	D.	eventMouseMotionListener()
10. To be	a listener for ActionEvent, an object must be an in	stance	of
A.	ActionEvent	D.	WindowListener
B.	ActionListener	E.	WindowEvent
C.	EventObject		





11.	To list	en to mouse actions, the listener must implement the	he	interface.
	A.	MouseListener	C.	WindowListener
	B.	KeyListener	D.	ComponentListener
12.	To list	en to keyboard actions, the listener must implemen	nt the _	interface or extend.
	A.	MouseListener	C.	WindowListener
	B.	KeyListener	D.	ComponentListener
13.	Which of	the following components is a helper class?		
	A.	JFrame	C. JI	Panel
	B.	Graphics	D. JI	Button
14.	Pressing a	a button generates a(n) event.		
	A.	ItemEvent	D.	ActionEvent
	B.	MouseEvent	E.	ContainerEvent
	C.	MouseMotionEvent		
15.	What is i	t called when a program is written to respond to	the b	outton clicks, menu selections, and
C	ther action	ns of the user in whatever order the user does them	?	
	A.	Event-driven programming.	C.	User-driven programming.
	B.	Action-driven programming.	D.	Mouse-driven programming
16.	Which of	the following classes is a heavyweight component	t?	
	A.	JButton	C.	JPanel
	B.	JTextField	D.	JFrame
17.	Which on	e of the following is correct to create a JPanel with	h Grid	Layout?
	A.	JPanel p = new JPanel()		
	B.	JPanel p = new JPanel(new GridLayout(GridLayout	out(3,2	2,5,5)));
	C.	JPanel p = new JPanel(new GirdLayout(3,2));		
	D.	JPanel p = new JPanel().setLayout(new GridLayo	out(3,2)));
18.	Which ev	ent/s is/are generated when clicking a JList object	?	
	A.	ActionEvent and ItemEvent		
	B.	ItemEvent and ItemListener		
	C.	It generates only ActionEvent		
	D.	It generates only ItemEvent		
	E.	ActionEvent and ComponentEvent		
19.	Which of	the following statements is for terminating the pro-	gram	when closing the frame?
	A.	$frame.setDefaultCloseOperation(JFrame.EXIT_COMPACTION Frame.EXIT_COMPACTION FrAMETION FRAMET$	N_CI	LOSE)
	B.	frame.setDefaultCloseOperation(null)		
	C.	$frame.set Default Close Operation (JF rame.STOP_COMPACTION Frame) and the property of the pr$	ON_C	LOSE)
	D.	frame.set Default Close Operation (JF rame. TERMING)	NATE	_ON_CLOSE)
20.	The meth	od gets the text (or caption) of the bu	tton jb	t.
	A.	jbt.text()	C.	jbt.findText()
	B.	jbt.getText()	D.	jbt.retrieveText().





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- 21. Which of the following is true?
 - A. JButton inherits from javax.swing.AbstractButton.
 - B. You can create a JButton by specifying an icon and text.
 - C. You can create a JButton by specifying an icon.
 - D. You can create a JButton by a text.
 - E. You can create a JButton using its default constructor.
- 22. Which of the following statements are true?
 - A. All methods in FileInputStream/FileOutputStream are inherited from InputStream/OutputStream.
 - B. You can create a FileInputStream/FileOutputStream from a File object
 - C. The return value -1 from the read() method signifies the end of file.
 - D. A FileNotFoundException would occur if you attempt to create a FileInputStream with a nonexistent file.
 - E. All of the above
- 23. Which of the following statements is correct to create a DataOutputStream to write to a file named **out.dat**?
 - A. DataOutputStream outfile = new DataOutputStream(new File("out.dat"));
 - B. DataOutputStream outfile = new DataOutputStream(newFileOutputStream("out.dat"));
 - C. DataOutputStream outfile = new DataOutputStream(FileOutputStream("out.dat"));
 - D. DataOutputStream outfile = new DataOutputStream("out.dat");
- 24. What does the following code do?

FileInputStream fis = new FileInputStream("test.dat");

- A. It creates a new file named test.dat if it does not exist
- B. It creates a new file named test.dat regardless of whether it exists or not
- C. It creates a FileInputStream for test.dat if test.dat exists.
- D. All
- 25. Which of the following statements are true?
 - A. You can use the PrintWriter class for reading text from a file.
 - B. You can use the Scanner class for writing text to a file.
 - C. A File object encapsulates the properties of a file or a path
 - D. The File class has different methods that can be used to manipulate the files.
 - E. All of the above
 - F. C and D
- 26. Which of the following statement is false?
 - A. Text I/O involves encoding and decoding.
 - B. Binary I/O does not require conversions.
 - C. Text I/O is more efficient than Binary I/O
 - D. Binary files are independent of the encoding scheme on the host machine and thus are portable.





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27.	What is t	the name of the abstrac	t base class for stream	s deal	ing with general	purpose (non-
c	haracter) i	nput?				
	A.	InputStream		C.	Reader	
	B.	OutputStream		D.	Writer	
28.	What is b	uffering in java?				
	A.	A section of memory us	sed as staging area for i	nput o	r output data	
	B.	The cable that connects	a data source to the bu	S		
	C.	Any stream that deals w	ith character IO			
	D.	A file that contains bina	ry file			
29.	Which of	the following is used t	to read bytes from stre	eams a	nd converts then	n into appropriate
p	rimitive ty	pe values or strings?				
	A.	DataOutputStream		C	. FileInputStream	m
	В.	DataInputStream		D	. FileOutputStre	eam
30.		the following is used to	convert Java Objects in	nto seq	uence of bytes?	
		DataOutputStream			C. ObjectInputS	
		DataInputStream			D. ObjectOutput	tStream
31.		the following method is	used to perform DDL s	statem	ents in JDBC?	
	A.	executeResult()		(C. executeUpda	te()
	В.	executeQuery()			D. execute()	
32.		the following is used to	call stored procedure?			
	A.	Statement		(C. CallableStatn	nent
		PreparedStatement			D. CalledStatem	
3		of the following me	thod/s is/are used fo	r setti	ng parameters	in the object of
	-	Statement Class?				
		getString()			D. executeUpda	te()
		setString()			E. B and C	
		setDouble()			F. All	
34.		the following statements	=	BC dri	ver?	
		Class.forName(com.my				
		Class.forName("com.m	• • •			
	C.	Class.loadClass(com.m	ysql.jdbc.Driver);			

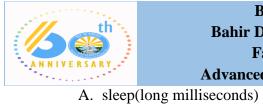
- D. Class.loadClass("com.mysql.jdbc.Driver");
- 35. To create a statement on a Connection object conn, use
 - A. Statement statement = conn.statement();
 - B. Statement statement = Connection.createStatement();
 - C. Statement statement = conn.createStatement();
 - D. Statement = connection.create();
- 36. Suppose a prepared statement is created as follows:





Statement preparedStatement = connection.prepareStatement ("insert into Student (firstName, mi
lastName) values (?, ?, ?)");
To get a value John to the first peremeter, use

lastName) values (?, ?, ?)");	
To set a value John to the first parameter, use	
A. preparedStatement.setString(0, "John");	
<pre>B. preparedStatement.setString(1, "John");</pre>	
<pre>C. preparedStatement.setString(0, 'John');</pre>	
<pre>D. preparedStatement.setString(1, 'John');</pre>	
37. Database metadata are retrieved through	
A. a Connection object	C. a ResultSet Object
B. a Statement object	D. a PreparedStatement object
38. What information may be obtained from a DatabaseMetaD	Pata object?
A. database URL and product name	
B. JDBC driver name and version	
C. maximum number of connections to the database	e
D. maximum table name length and maximum num	aber of columns in a table
39. To execute a SELECT statement "select * from Address" of	on a Statement object stmt, use
A. stmt.execute("select * from Address");	
B. stmt.executeQuery("select * from Address");	
C. stmt.executeUpdate("select * from Address");	
<pre>D. stmt.query("select * from Address");</pre>	
40. What information may be obtained from a ResultSetMetaD	Data object?
A. database URL and product name	
B. JDBC driver name and version	
C. number of columns in the result set	
D. number of rows in the result set	
E. All of the above	
41. If a prepared statement object preStatement is a SQL S	ELECT statement, you execute the
statement using	
<pre>A. preStatement.execute();</pre>	<pre>C. preStatement.executeQuery();</pre>
B. preStatement.executeUpdate();	<pre>D. preStatement.query();</pre>
42. Which of the following expressions must be true if you	a create a thread using Thread = new
Thread(object)?	
A. object instanceof Thread	C. object instanceof Applet
B. object instanceof Frame	D. object instanceof Runnable
43. You can use the method to temporarily release	time for other threads.
A. sleep(long milliseconds)	C. stop()
B. yield()	D. suspend()
44. You can use the method to force one thread to wa	ait for another thread to finish.



B. yield()

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D. suspend()

E. join()

		C. stop()			
45.	Which o	f the following statements are true about Semaphore	es?		
	A.	Semaphores can be used to restrict the number of t	threa	ad	s that access a shared resource.
	В.	Before accessing the resource, a thread must acqui	ire a	p	ermit from the semaphore.
		After finishing with the resource, the thread must		-	-
		You can create a Semaphore with a specified num			•
		All of the above		-	Permis
46		Il be the state of a thread when isLive() method return	rne 1	m	ne?
70.		The thread has not yet started.			The thread is at New state
		The thread is finished			
47			υ.	1	The thread is at Running state
47.		e of the following is the advantage of Multithreading?			
		You can perform multiple operations together at a time Threads are dependent on other threads			
		A thread can execute concurrently with other threads wi	ithin	0	single process
		It is used to perform tasks in parallel processing	lumm	a	single process.
	D.	it is used to perform tasks in paramet processing			
48.	Which one	e of the following methods are invoked while threads can	con	nm	nunicate with other thread
		wait()			otifyAll()
		notify()	D.		-
49.		the following methods invokes the run() method in a thre			
		A. join()).	yield()
		B. wait()			A and D
		C. start()			
50.	Which of t	he following is correct?			
	A.	<pre>public class Test implements Thread{}</pre>			
	B.	<pre>class Test implements Runnable{}</pre>			
	C.	<pre>public class Test extends Runnable{}</pre>			
	D.	<pre>public Test class extends Thread{}</pre>			
51.	Which of t	the following method is used to find out the state of a three	ead?	•	
		A. isInterrupted()	C		start()
		B. isAlive()			notify()
52.	Which of t	he following methods cause to interrupt a thread for the	_		
		A. sleep(long milliseconds)			stop()
		B. yield()			suspend()
	53. When	creating a server on a port that is already in use, wh	at v	vil	l happen?
		A. java.net.BindException occurs.			
		B. The server is created with no problems.			
		C. The server is blocked until the port is available.			





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	D. The server encounters a fatal error and must	be terminated.
54. The s	server listens for a connection request from a clien	at using the following statement:
	A. Socket s = new Socket(ServerName, port);	
	B. Socket s = serverSocket.accept()	
	C. Socket s = serverSocket.getSocket()	
	<pre>D. Socket s = new Socket(ServerName);</pre>	
55. To creat	te an InputStream on a socket s, you use	
A	InputStream in = new InputStream(s);	
В	3. InputStream in = s.getInputStream();	
C	C. InputStream in = s.obtainInputStream();	
Γ	<pre>D. InputStream in = s.getStream();</pre>	
56	models an IP address, which can be us	sed to find the host name and IP address
of the clie	ent.	
	A. The ServerSocket class	C. The InetAddress class
	B. The Socket class	D. The Connection interface
7. You can	n invoke on a Socket object, say	socket, to obtain an InetAddress object.
	A. socket.InetAddress();	<pre>C. socket.obtainInetAddress();</pre>
	<pre>B. socket.getInetAddress();</pre>	<pre>D. socket.retrieveInetAddress();</pre>
58. The	method in the InetAddress class return	ns the IP address.
A	A. getIP()	C. getHostAddress()
В	3. getIPAddress()	D. getAddress()
59 Which a	one of the following class is used for UDP connect	tion?
	A. ServerSocket	C. DatagramSocket
	B. Socket	D. InputStream
	T and POST methods are specified in	•
	A. a CGI program	C. an HTML form
	B. a Java program	D. a URL string
	method ensures that a new Web page is gen	
	A. GET	C. DELETE
	B. POST	D. UPDATE
	request is not time-sensitive, such as finding the a	
<i>J</i> = -:-	method to speed up the performance.	
A	A. GET	C. DELETE
	B. POST	D. UPDATE
	Tomcat is a	
	Servlet	

B. Java program





	C.	Web server		
	D.	Web server that is capable of running Java programs	s.	
64.	A servlet	is an instance of		
	A.	the Object class	C.	the HttpServlet class
	B.	the Applet class	D.	the HTTPServlet class
65.	To start	the Tomcat servlet engine, use the command		from the TomcatRootDir\bin
Ċ	lirectory.			
	A.	java TomcatServlet	C.	start
	B.	start Tomcat	D.	startup
66.	By defau	lt, Tomcat runs on port		
	A.	8080	C.	1080
	B.	80	D.	8888
67.	The	interface defines the methods that all servlets	mus	t implement.
	A.	javax.servlet.Servlet	C.	ServletRequest
	B.	HttpServlet	D.	ServletResponse
68.	The	method is called when the servlet is first created	d, an	nd is not called again as long as the
S		ot destroyed.		
	A.	init	C.	destroy
	B.	service	D.	getServletInfo
69.	The	class defines a servlet for the HTTP protocol.		
	A.	javax.servlet.http.HttpServlet	C.	HttpServletRequest
		Servlet	D.	HttpServletResponse
70.		is a subinterface of ServletRequest.		
	A.	HttpServletRequest	C.	HttpServlet
		HttpServletResponse		Servlet
		Xxx method in the HttpServlet class has a paramete		
C	bject that	contains HTTP request information, including parameters	mete	er name and values, attributes, and
a	n input st	ream.		
	A.	HttpServletRequest	C.	HttpSession
		HttpServletResponse		Cookie
	•	oXxx method in the HttpServlet class has a parameter		
V		n object that assists a servlet in sending a response to		
		HttpServletRequest		HttpSession
		HttpServletResponse		Cookie
		the two parameters in the doGet or doPost method	l are	request and response. To specify
F		ntent type sent to the client, invoke		
		response.setContentType("text/html")		
		request.setContentType("text/html")		
	C.	response.setContentType("html")		





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	D. request.setContentType("html")	
74. Suppo	se the two parameters in the doGet or doPost	method are request and response. To send output
to a clie	nt, create a PrintWriter using	
	A. response.getWriter()	C. response.writer()
	B. response.getPrintWriter()	D. response.getWrite()
75. The co	de for loading a JDBC driver and connecting	to a database should be invoked from in a
servlet.		
	A. the init method	C. the doPut method
	B. the doGet method	D. the destroy method
76. To sto	re a hidden value for lastName as Smith in an	HTML form, use
	A. <input name="?lastName?" td="" type="?text?" valu<=""/> <td>ue=?Smith?></td>	ue=?Smith?>
	B. <input area?="" name="?lastName*</td" type="?text"/> <td></td>	
	C. <input name="?lastName?" p="" type="?radio?" va<=""/>	
	D. <input name="?lastName</td" type="?checkbox?"/> <td></td>	
	E. <input name="?lastName?</td" type="?hidden?"/> <td></td>	
	ate a cookie for lastName with value Smith, us A. new Cookie("Smith", "lastName");	se
	B. new Cookie(Smith, lastName);	
	C. new Cookie("lastName", "Smith");	
	D. new Cookie(lastName, \Smith);	
		est method are request and response. To send a
	o a client, use	st method are request and response. To send a
	A. response.addCookie(cookie)	C. request.addCookie(cookie)
	B. response.sendCookie(cookie)	D. request.sendCookie(cookie)
	• • • • • • • • • • • • • • • • • • • •	t method are request and response. To retrieve a
	rom a client, use	method are request and response. To retrieve a
	A. response.retrieveCookie()	
	B. response.getCookie()	
	C. You have to use request.getCookies() to o	htain all cookies in an array
	D. You have to use request.getCookie() to ob	
	instance of Cookie, say cookie, to retrieve the A. cookie.getValue()	name of the cookie, use
	B. cookie.getName()	oin all values in an arroy
	C. You have to use cookie.getNames() to obt	
	D. You have to use cookie.getValues() to obt	
	ession, use	t method are request and response. To create an
		C response greate Session()
	A. request.createSession()	C. response.createSession()

D. response.getSession()

B. request.getSession()





82.	For an HttpSession, say session, how do you set	an attribute pair with name lastName and value
S	Smith?	
	 A. session.setValue("lastName", "Smith") B. session.setAttribute("lastName", "Smith C. session.value("lastName", "Smith") D. session.attribute("lastName", "Smith") 	")
83.	For a HttpSession, say session, how do you get its	attribute?
	A. session.getValue("lastName")	C. session.value("lastName")
	B. session.getAttribute("lastName")	D. session.attribute("lastName")
84.	A JSP file ends with	
	Ajava extension	Cshtml extension
	Bhtml extension	Djsp extension
85.	You can run JSP from	• •
	A. any Web server.	
	B. any JVM.	
	C. any Web server that supports Java servle	et and JSP.
	D. any Web browser	
86.	-	
	A. $<\%=i\%>$	
	B. $<\%$ = Math.pow(2, 3) %>	
	C. <%! private long computeFactorial(in computeFactorial(n - 1); } %>	nt n) { if $(n == 0)$ return 1;else return n *
	D. $<\%$ for (int $i = 0$; $i <= 10$; $i++$) { %>	
	E. HTML Comment%	
87.		
	A. $<\% = i \% >$	
	B. $<\%$ = Math.pow(2, 3) %>	4 m) (:f (m = 0) material 1, also material *
	computeFactorial(n - 1); } %>	t n) { if $(n == 0)$ return 1; else return n *
	D. <% for (int i = 0; i <= 10; i++) { %>	
	E. HTML Comment	
88.	is a JSP comment.	
	A. <%= i %>	
	B. <% i%>	
		t n) { if $(n == 0)$ return 1; else return n *
	computeFactorial(n - 1); } %>	
	D. <% for (int i = 0; i <= 10; i++) { %>	
90	E. HTML Comment	
09.	The JSP explicit object out is actually	D request cotWeiter()
	A. response.getOutputStream()	D. request.getWriter()
	B. response.getWriter()	E. application
	C. request.getOutputStream()	





90.	is a statement that gives the JSP engine in	nformation about the JSP page.
	A. A JSP implicit object	C. A JSP expression
	B. A JSP scriptlet	D. A JSP directive
91.	The directive lets you provide informat	tion for the page, such as importing classes and
	etting up content type. The page directive can appear	
	A. page	C. tablib
	B. include	D. import
92.	A class is a JavaBeans component if	
	A. it is a public class	
	B. it has a public constructor with no argume	ents
	C. it is serializable.	
	D. All	
93.	completely separates Web UI from Java code	so the application developed using JSF is easy to
d	lebug and maintain.	
	A. Java servlet	D. PHP
	B. JSP	E. JavaScript
	C. JSF	
94.	What is the Default Templating System for JSF?	
	A. Facelets	C. Spring
	B. ReXSL	D. XUL
95.	What is full form of JSF?	
	A. JavaScript Framework	C. JavaServer Facility
	B. JavaServer Faces	D. None of the above
96.	What are the different types of JSF events?	
	A. Pre Destroy Application Event	C. PreRender View Event
	B. Post Construct Application Event	D. All of the above
97.	What is the file extension of JSF?	
	Ajsf	Cjvm
	Bjs	D. None of the above
98.	A JSF application typically follows in its	life.
	A. five steps	C. four steps
	B. six steps	D. three steps
99.	is Often Used with JSF.	
	A. JCL	C. Cobit
	B. Ajax	D. JCL
100.	Creates a Radio Button.	
	A. H:selectOneRadio	C. H:selectOneMenu
	B. H:outputLink	D. None of the above