



M.SC(IT) I YEAR(2017-2019)
CORE: ENTERPRISE COMPUTING USING JAVA-163C
Semester : I
Multiple Choice Questions

- 1) _____ is an instance of a class.
 - a) File.
 - b) Object.**
 - c) Method.
 - d) Function.

- 2) _____ method is used to examine the address and port information by the socket.
 - a) getInetAddress().**
 - b) localPort().
 - c) getPort().
 - d) getLength().

- 3) _____ are containers for classes.
 - a) Functions.
 - b) Methods.
 - c) Packages.**
 - d) Messages.

- 4) _____ are stored in hierarchical manner.
 - a) Functions.
 - b) Methods.
 - c) Packages.**
 - d) Messages.

- 5) _____ is a low level routing protocol that breaks data into smaller packets.
 - a) Transmission control protocol.
 - b) Internet protocol.**
 - c) File transfer protocol.
 - d) User datagram protocol.

- 6) _____ is an instance of a class that implements the runnable interface.
 - a) Processor.
 - b) Thread.**
 - c) Function.
 - d) Method.

- 7) _____ is an instance of the class.
- a) Function.
 - b) Object.**
 - c) Variable.
 - d) Thread.
- 8) _____ is the logical construct upon which the entire java language is built.
- a) Function.
 - b) Method.
 - c) File.
 - d) Class.**
- 9) _____ statement in java is conditional branch statement.
- a) else.
 - b) while.
 - c) if.**
 - d) for.
- 10) _____ is a concept in which one object acquires the property of another object.
- a) Inheritance.
 - b) Polymorphism.**
 - c) Encapsulation.
 - d) Dynamic binding.
- 11) _____ are bundles of information passed between machines.
- a) Datagrams.**
 - b) Sockets.
 - c) Client Sockets.
 - d) Datagram packet.
- 12) _____ method returns the length of data contained in the byte array.
- a) getLength().**
 - b) getLengthOf().
 - c) getDataLength().
 - d) getDataLengthOf().
- 13) _____ method starts a thread by calling its run method.
- a) Start().**
 - b) Paint().
 - c) Run().
 - d) Repaint().

- 14) _____ protocol supports fast point to point datagram oriented model.
- a) TCP/IP.
 - b) UDP.**
 - c) TCP.
 - d) IP.
- 15) _____ server provides computing power.
- a) Print server.
 - b) Web server.
 - c) Compute server.**
 - d) Disk server.
- 16) 126. An interface is much like a _____.
- a) file.
 - b) class.**
 - c) object.
 - d) dir.
- 17) A ____ object is used to obtain or manipulate the information associated with a disk file.
- a) class.
 - b) dir.
 - c) file.**
 - d) foldr.
- 18) A _____ is a J2ME application designed to operate on an MIDP small computing device.
- a) OEM.
 - b) MIDlet.**
 - c) MIDP.
 - d) CLDC.
- 19) A Frame's background color is set to Color.Yellow, and a Button's background color is to Color.Blue. Suppose the Button is added to a Panel, which is added to the Frame. What background color will be used with the Panel?
- a) Color.Yellow.**
 - b) Color.Blue.
 - c) Color.Green.
 - d) Color.White.
- 20) A mouse listener is used in _____.
- a) Exception handling.
 - b) Event handling.**
 - c) Error typing.
 - d) typo error.

- 21) A servlet maintain session in
- a) Servlet container.
 - b) Servlet context.**
 - c) Servlet request heap.
 - d) Servlet response heap.
- 22) A/an _____ is a group of like-typed variables that are referred to by a common name.
- a) structure.
 - b) union.
 - c) array.**
 - d) class.
- 23) An applet which is developed and stored in elsewhere on a remote computer which is connected to the internet is called -----.
- a) local Application.
 - b) remote Application.
 - c) local Applet.
 - d) remote Applet.**
- 24) An applet which is developed locally and stored in local system is called -----.
- a) local Application.
 - b) remote Application.
 - c) local Applet.**
 - d) remote Applet.
- 25) An example of bitwise logical operator is
- a) +.
 - b) -.
 - c) ^.**
 - d) \$.
- 26) An example of multiway branch statement is _____.
- a) if/else.
 - b) nested if.
 - c) switch.**
 - d) for.
- 27) An exit controlled loop is _____.
- a) if/else.
 - b) while.
 - c) do/while.**
 - d) for.

- 28) Anything declared _____ can be accessed from anywhere within program.
- a) private.
 - b) variable.
 - c) method.
 - d) public.**
- 29) Assuming a method contains code which may raise an Exception (but not a RuntimeException), what is the correct way for a method to indicate that it expects the caller to handle that exception.
- a) throw Exception.
 - b) throws Exception.**
 - c) new Exception.
 - d) Don't need to specify anything.
- 30) Byte can be Cast to _____ Value.
- a) double.**
 - b) single.
 - c) triple.
 - d) quad.
- 31) Datagram provides an alternative for -----
- a) IP.
 - b) TCP.
 - c) TCP/IP.**
 - d) UDP.
- 32) Developer of Java is _____.
- a) Dennis Ritchie.
 - b) James Gosling.**
 - c) Ken Thompson.
 - d) Kennedy.
- 33) Dynamic interception of requests and responses to
- a) transform the information is done by servlet container.
 - b) servlet config.
 - c) servlet context.**
 - d) servlet filter.
- 34) EJB systems performance tuning is the responsibility of
- a) Bean Provider
 - b) EJB Deployer**
 - c) Application Assembler
 - d) Tool Vendor

- 35) For externalizable objects the _____ is solely responsible for the external format of its contents.
- a) function.
 - b) method.
 - c) file.
 - d) class.**
- 36) Given that a Button can generate an ActionEvent which listener would you expect to have to implement, in a class which would handle this event?
- a) FocusListener.
 - b) ComponentListener.
 - c) WindowListener.
 - d) ActionListener.**
- 37) How do you change the current layout manager for a container?
- a) Use the setLayout method.**
 - b) Once created you cannot change the current layout manager of a component.
 - c) Use the setLayoutManager method.
 - d) Use the updateLayout method.
- 38) How do you handle DataBase access and in which method of the servlet do you like to create connection.
- a) void().
 - b) paint().
 - c) init().**
 - d) repaint().
- 39) How many ServletContext objects are available for an entire web application?
- a) One each per servlet.
 - b) One each per request.
 - c) One each per response.
 - d) Only one.**
- 40) If sockets have been invalidated ----- are used to send and receive data.
- a) IP stream.
 - b) TCP.
 - c) UDP.
 - d) I/O stream.**
- 41) If the data type is converted using incompatible types it is called as _____ conversion.
- a) class.
 - b) compatible.
 - c) narrowing.**
 - d) automatic.

- 42) In _____ statement condition is true, and then statement 1 is executed.
- a) else.
 - b) while.
 - c) if.**
 - d) for.
- 43) In Interface we need not use the keyword abstract for the _____.
- a) functions.
 - b) procedures.
 - c) messages.
 - d) methods.**
- 44) In Java the data type used to store characters is _____.
- a) char**
 - b) String.
 - c) chars.
 - d) character.
- 45) In order to cause the paint(Graphics) method to execute, which of the following is the most appropriate method to call.
- a) paint().
 - b) repaint().**
 - c) paint(Graphics).
 - d) update(Graphics).
- 46) In the following code, which is the earliest statement, where the object originally held in e, may be garbage collected: public class Test {public static void main (String args []) { Employee e = new Employee("Bob", 48); e.calculatePay(); System.out.println(e.printDetails()); e = null; e = new Employee("Denise", 36); e.calculatePay(); System.out.println(e.printDetails()); } }.
- a) Line 11.
 - b) Line 7.**
 - c) Line 8.
 - d) Never.
- 47) In the format of URL what is the last part?
- a) Protocol.
 - b) File path.**
 - c) Port number.
 - d) Host name.

- 48) J2ME was released in the year _____.
- a) 1994.
 - b) 1995.
 - c) 1998.
 - d) **1999.**
- 49) Java allows two or more statements to be grouped into blocks of code also called _____.
- a) block.
 - b) statement block.
 - c) **code blocks.**
 - d) parameters.
- 50) Java was originally derived from _____.
- a) FORTRAN .
 - b) Simula & C.
 - c) **C & C++.**
 - d) ALGOL & C++.
- 51) Java's which system allows a thread to enter a synchronized method on an object, and then wait there until some other thread explicitly notifies it to come out?
- a) Function.
 - b) **Messaging.**
 - c) Exchanging.
 - d) Package.
- 52) JVM is a/an _____ for byte code.
- a) objects
 - b) **interpreter.**
 - c) class file.
 - d) streams.
- 53) Long makes it useful when big _____ numbers are needed.
- a) rational
 - b) fraction
 - c) **whole**
 - d) prime
- 54) Method overloading illustrates _____ OOPS concept.
- a) inheritance.
 - b) encapsulation.
 - c) **polymorphism.**
 - d) classes.

- 55) Nowadays we are using ----- version of Internet addressing
- a) IPV2.
 - b) IPV3.
 - c) IPV4.**
 - d) IPV5.
- 56) server to fetch content.
- a) FTP.
 - b) TCP.
 - c) HTTP.**
 - d) UDP.
- 57) Servlets classes specific to your application are placed in which directory on the TOMCAT Server?
- a) /lib/.
 - b) /WEB-INF/classes/.**
 - c) /classes.
 - d) /WEB-INF/lib/.
- 58) Start()executes a call to _____.
- a) init().
 - b) paint().
 - c) run().**
 - d) repaint().
- 59) Statement used inside a set of nested loops, will only break out of the innermost loop?
- a) Break.**
 - b) Case.
 - c) Select.
 - d) Else.
- 60) Suppose a Panel is added to a Frame and a Button is added to the Panel. If the Frame's font is set to 12-point TimesRoman, the Panel's font is set to 10-point TimesRoman, and the Button's font is not set, what font will be used to display the Button's label?
- a) 12-point TimesRoman.
 - b) 11-point TimesRoman.
 - c) 10-point TimesRoman.**
 - d) 9-point TimesRoman.
- 61) The _____ is similar to break, except that instead of halting the execution of the loop, it starts the next iteration.
- a) continue.**
 - b) select.
 - c) case.
 - d) while.

- 62) The _____ keyword halts the execution of the current loop and forces control out of the loop.
- a) **break.**
 - b) case.
 - c) select.
 - d) else.
- 63) The _____ loop repeats a set of statements a certain number of times until a condition is matched.
- a) **while.**
 - b) do.
 - c) if.
 - d) for.
- 64) The _____ operators determine the relationship that one operand has to the other.
- a) logical.
 - b) bitwise.
 - c) **relational.**
 - d) Boolean.
- 65) The _____ layer also handles interactions between the profile and the JVM.
- a) MIDP.
 - b) CLDC.
 - c) **Configuration.**
 - d) Profile.
- 66) The _____ layer has access to CLDC libraries and MIDP libraries.
- a) Configuration.
 - b) CLDC.
 - c) Profile.
 - d) **MIDP.**
- 67) The code below draws a line. What color is the line? `g.setColor(Color.red.green.yellow.red.cyan);`
`g.drawLine(0, 0, 100,100);`
- a) Red.
 - b) Green.
 - c) Yellow.
 - d) **Cyan.**
- 68) The constructor which is used in server socket is_____.
- a) Socket (Inet Address, int port, IP Address).
 - b) **Server Socket (int port).**
 - c) Server Socket (int maxQueue, Inet Address).
 - d) Server Socket(int maxQueue, Inet Address localAddress).

- 69) The data or variables defined within a class are called _____ variables.
- a) program.
 - b) class.
 - c) object.
 - d) instance.**
- 70) The default encoding of objects supports the _____ of the classes.
- a) evolution.**
 - b) variables.
 - c) datatype.
 - d) methods.
- 71) The escape sequence \r is used for
- a) new line.
 - b) carriage return.**
 - c) tab.
 - d) backspace.
- 72) The explicit drop of an object reference by setting the value of a variable, whose data type is a reference type of _____.
- a) integer.
 - b) null.**
 - c) number.
 - d) varchar.
- 73) The following method is used to create a PrintWriter object that can be used to write text to the response:-
- a) getWriter().**
 - b) getOutputStream().
 - c) getBinaryStream().
 - d) getStream().
- 74) The getSession() method with 'true' as its parameter [getSession(true)] it will return the appropriate session object when
- a) the session is completed
 - b) the session object is passed to another method
 - c) the session does not exists
 - d) the session is existing**
- 75) The J2ME architecture comprises _____ software layers.
- a) 1.
 - b) 2.
 - c) 3.**
 - d) 4.

- 76) The JDBC-ODBC Bridge is
- a) Three tiered.
 - b) Multithreaded.**
 - c) Best for any platform.
 - d) All of the above.
- 77) The mechanism which binds together the code and data and keeps both safe is _____.
- a) abstraction.
 - b) polymorphism.
 - c) inheritance.
 - d) encapsulation.**
- 78) The method setLabel can be used with what type of Object?
- a) DoubleField .
 - b) int .
 - c) TextField .**
 - d) String.
- 79) The old name of Java is
- a) J2EE.
 - b) green.
 - c) oak.**
 - d) pine.
- 80) The purpose of init () in servlet life cycle is
- a) Destruction
 - b) Termination
 - c) initialization**
 - d) modification
- 81) The size of float is _____ bits.
- a) 8.
 - b) 16.
 - c) 32.**
 - d) 64.
- 82) The size of int data type is _____ bits.
- a) 8.
 - b) 16.
 - c) 32.**
 - d) 34.

- 83) The smallest integer type is _____.
- a) bit.
 - b) byte.**
 - c) float.
 - d) int.
- 84) The third layer in the J2ME Architecture is the _____.
- a) CLDC.
 - b) MIDP.**
 - c) Configuration.
 - d) Profile.
- 85) The wrapping up of data into a single unit is called as _____.
- a) Inheritance.
 - b) Polymorphism.
 - c) Encapsulation.**
 - d) Dynamic binding.
- 86) This keyword can be used inside any method to refer _____ object.
- a) class.
 - b) current.**
 - c) file.
 - d) program.
- 87) To extract a character from a string _____ method have to be used.
- a) char.
 - b) charAt.**
 - c) Charat.
 - d) Char.
- 88) To manage multiple client connections a server process must be -----
- a) multiported.
 - b) effective.
 - c) efficient.
 - d) multithreaded.**
- 89) To send text output in a response, the following method of HttpServletResponse may be used to get the appropriate Writer/Stream object. Choose the correct option.
- a) getStream.
 - b) getOutputStream.
 - c) getBinaryStream.
 - d) getWriter.**

- 90) Using which keyword we can fully abstract a class?
- a) **Interface.**
 - b) Integer.
 - c) Instance.
 - d) Iterate.
- 91) What are the possible access modifiers while implementing interface methods?
- a) Private.
 - b) Variable.
 - c) Method.
 - d) **Public.**
- 92) What Checkbox method allows you to tell if a Checkbox is checked?
- a) getSize().
 - b) getStart().
 - c) getCheck().
 - d) **getState().**
- 93) What is the correct declaration of an abstract method that is intended to be public?
- a) **public abstract void add();**
 - b) public abstract void add() {}
 - c) public abstract add();
 - d) public virtual add();
- 94) What is the default Layout Manager for the Window and Window subclasses (Frame,Dialog)?
- a) WindowLayout().
 - b) SubclassLayout().
 - c) Layout().
 - d) **BorderLayout().**
- 95) What is the legal range of a byte integral type?
- a) **0 - 65, 535.**
 - b) (-128) - 127.
 - c) (-32,768) - 32,767.
 - d) (-256) - 255.
- 96) What is the name of the interface that can be used to define a class that can execute within its own thread?
- a) Runnable.
 - b) Run.
 - c) **Threadable.**
 - d) Thread.

- 97) What is the name of the method used to schedule a thread for execution?
- a) `init();`
 - b) `start();`**
 - c) `run();`
 - d) `resume();`
- 98) What is the parameter specification for the public static void main method? A. `String args []`.
- a) `Strings [] args.`**
 - b) `Strings args []`.
 - c) `String args.`
- 99) What is the result of executing the following code, using the parameters 4 and 0: `public void divide(int a, int b) {try {int c = a / b;} catch (Exception e) {System.out.print("Exception ");} finally {System.out.println("Finally");}`
- a) Prints out: Exception Finally.**
 - b) Prints out: Finally.
 - c) Prints out: Exception.
 - d) No output.
- 100) What is the result of the following program: `public class Test {public static void main (String args []) {boolean a = false;if (a = true)System.out.println("Hello");else System.out.println("Goodbye");}}`
- a) Program produces no output but terminates correctly.
 - b) Program does not terminate.
 - c) Prints out "Hello".**
 - d) Prints out "Goodbye".
- 101) What is the return type of program's `main()` method?
- a) `main.`
 - b) `class.`
 - c) `method.`
 - d) `void.`**
- 102) What is the value of `a[3]` as the result of the following array declaration?
- a) 1.**
 - b) 2.
 - c) 3.
 - d) 4.
- 103) What is the value stored in `result` after executing the following line in a program? `result = 6/2*3;`
- a) 1.2 .
 - b) 9.
 - c) 1 .**
 - d) 0.

- 104) What will be the result of compiling the following code: `public class Test {public static void main (String args []) {int age;age = age + 1;System.out.println("The age is " + age);}}`.
- a) Compiles and runs with no output.
 - b) Compiles and runs printing out The age is 1.
 - c) Compiles but generates a runtime error.
 - d) **Does not compile.**
- 105) When java program starts up, which thread begins running immediately?
- a) Sub method.
 - b) Main method.
 - c) Sub thread.
 - d) **Main thread.**
- 106) When you implement an interface method, it must be declared as _____
- a) private.
 - b) variable.
 - c) method.
 - d) **public.**
- 107) Which cast must be used to convert a larger value into a smaller one?
- a) Large cast.
 - b) **Explicit cast.**
 - c) Small cast.
 - d) Extra cast.
- 108) Which colour is used to indicate instance methods in the standard "javadoc" format documentation?
- a) Blue.
 - b) **Red.**
 - c) Purple.
 - d) Orange.
- 109) Which Component method is used to access a component's immediate Container?
- a) `setVisible()`.
 - b) `getImmediate`.
 - c) **`getParent()`.**
 - d) `getContainer`.
- 110) Which Component subclass is used for drawing and painting?
- a) Paint.
 - b) **Canvas.**
 - c) Draw
 - d) Write

- 111) Which constructor creates a TextArea with 10 rows and 20 columns?
- a) new TextArea(new Rows(10), new columns(20)).
 - b) new TextArea(20, 10).
 - c) new TextArea(10, 20).**
 - d) new TextArea(200).
- 112) Which Container method is used to cause a container to be laid out and redisplayed?
- a) setValidate().
 - b) redisplay().
 - c) validate().**
 - d) setRedisplay().
- 113) Which Control Statement allow the program to execute in a non-linear fashion?
- a) Jump.**
 - b) While.
 - c) DoWhile.
 - d) Ifelse.
- 114) Which Control Statements allow the program to choose different paths of execution?
- a) Selection.**
 - b) Deletion.
 - c) Updation.
 - d) Modification.
- 115) Which Control Statements enable program execution to repeat one or more statements?
- a) Redundancy.
 - b) Transaction.
 - c) Iteration.**
 - d) Roll back.
- 116) Which driver is called as thin-driver in JDBC?
- a) Type - 1.
 - b) Type - 4.**
 - c) Type - 3.
 - d) Type - 2.
- 117) Which driver is efficient and always preferable for using JDBC applications?
- a) Type - 4.**
 - b) Type - 1.
 - c) Type - 3.
 - d) Type - 2.

118) Which layout should you use to organize the components of a container in a tabular form?

- a) CardLayout.
- b) BorderLayout.
- c) FlowLayout.
- d) **GridLayout.**

119) Which method is method to set the layout of a container?

- a) startLayout().
- b) initLayout().
- c) layoutContainer().
- d) **setLayout().**

120) Which method is used to set the text of a Label object?

- a) setLabel().
- b) setTextLabel().
- c) setLabelText().
- d) **setText().**

121) Which method is used to specify before any lines that uses the PrintWriter?

- a) **setPageType().**
- b) setContextType().
- c) setContentType().
- d) setResponseType()

122) Which method of the container class can be used to add components to a Panel.

- a) **add () method.**
- b) start () method.
- c) init () method.
- d) paint () method.

123) Which method will cause a Frame to be displayed?

- a) paint()
- b) **setVisible()**
- c) display()
- d) displayFrame()

124) Which methods may cause a thread to stop executing?

- a) **wait();**
- b) notify();
- c) notifyAll()
- d) synchronized()

125) Which of the following are acceptable? Object o = new Button("A");

- a) **Boolean flag = true;**
- b) Panel p = new Frame();
- c) Frame f = new Panel();
- d) Frame f = new Panel();

126) Which of the following are Java keywords?

- a) goto.
- b) malloc.
- c) **extends.**
- d) FALSE.

127) Which of the following are so called "short circuit" logical operators?

- a) &
- b) *
- c) **&&**
- d) |

128) Which of the following are valid return types, for listener methods?

- a) Boolean.
- b) the type of event handled.
- c) **Void.**
- d) Component.

129) Which of the following classes have a paint() method?

- a) Variable.
- b) Image.
- c) **Frame.**
- d) Graphics.

130) Which of the following components allow multiple selections?

- a) Combo box.
- b) Radio buttons.
- c) Choice.
- d) **List.**

131) Which of the following components generate action events?

- a) Labels.
- b) Check boxes.
- c) Windows.
- d) **Buttons.**

- 132) Which of the following creates a List with 5 visible items and multiple selection enabled?
- a) new List(true, 5).
 - b) new List(5, true).**
 - c) new List(5, false).
 - d) new List(false,5).
- 133) Which of the following is a legal return type of a method overloading the following method: public void add(int a) {...}.
- a) void.
 - b) int.
 - c) Can be anything.**
 - d) string.
- 134) Which of the following is false as far as type 4 driver is concern?
- a) Type 4 driver is "native protocol, pure java" driver.
 - b) Type 4 drivers are 100% Java compatible.
 - c) Type 4 drivers can not be used with Netscape.**
 - d) Type 4 driver cannot be used with Internet Explorer.
- 135) Which of the following is illegal: .
- a) int i = 32;
 - b) float f = 45.0;**
 - c) double d = 45.0;
 - d) string c="s";
- 136) Which of the following layout managers honours the preferred size of a component?
- a) CardLayout
 - b) FlowLayout**
 - c) BorderLayout
 - d) GridLayout
- 137) Which of the following may a menu contain?
- a) A check box.
 - b) A menu.**
 - c) A button.
 - d) A panel.
- 138) Which of the following may contain a menu bar?
- a) A panel.
 - b) A frame.**
 - c) An applet.
 - d) A menu bar.

- 139) Which of the following methods are invoked by the AWT to support paint and repaint operations?
- a) **paint().**
 - b) repaint().
 - c) draw().
 - d) redraw().
- 140) Which of the following methods are needed for loading a database driver in JDBC?
- a) registerDriver() method.
 - b) Class.forName().
 - c) **Both A and B.**
 - d) getConnection().
- 141) Which of the following operators are used in conjunction with the this and super references?
- a) **The Dot Operator.**
 - b) The Assignment Operator.
 - c) The Addition Operator.
 - d) The Subtraction Operator.
- 142) Which of the following operators are used in conjunction with the this and super references?
- a) The new operator.
 - b) The instanceof operator.
 - c) **The dot operator.**
 - d) The assignment operator.
- 143) Which of the following server can host servlets?
- a) Apache server.
 - b) IIS.
 - c) Windows 2000 Server.
 - d) **Tomcat Server.**
- 144) Which of the following statements is false as far as different type of statements is concern in JDBC?
- a) Prepared Statement.
 - b) Callable Statement.
 - c) **Interim Statement.**
 - d) Regular Statement.
- 145) Which of these is the correct format to use to create the literal char value a?
- a) **'a'**
 - b) "a"
 - c) new Character(a)
 - d) \000a

- 146) Which statement defines a name space in which classes are stored?
- a) Functions.
 - b) Methods.
 - c) Packages.**
 - d) Messages.
- 147) Which statement is used to explicitly return from a method?
- a) Functions.
 - b) Return.**
 - c) Packages.
 - d) Messages.
- 148) Which thread is created automatically when the program is started?
- a) Compound thread.
 - b) Main thread.**
 - c) Block thread.
 - d) File thread.
- 149) Which type of driver is suited for database middleware?
- a) Type 1
 - b) Type 2
 - c) Type 3**
 - d) Type 4
- 150) You want to construct a text area that is 80 character-widths wide and 10 character-heights tall. What code do you use?
- a) new TextArea(80, 10)
 - b) new TextArea(10, 80)**
 - c) new TextArea(40, 80)
 - d) new TextArea(80, 40)

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