इस प्रश्न पुस्तिका को तब तक न खोलें जब तक कहा न जाए।/Do not open this Question Booklet until you are asked to do so.

पुस्तिका में पृष्ठों की संख्या : 24
No. of Pages in Booklet : 24
पुस्तिका में प्रश्नों की संख्या : 100
No. of Questions in Booklet : 100
Paper Code : 22

GRP-24

Paper-II

201073

SUBJECT : Paper-II

समय : 02 घण्टे+10 मिनट अतिरिक्त*
Time : 02 Hours+10 Minutes Extra*

अधिकतम अंक : 100
Maximum Marks: 100

प्रश्न पुस्तिका के पेपर की सील/पॉलिथिन बैग को खोलने पर प्रश्न पत्र हल करने से पूर्व परीक्षार्थी यह सुनिश्चित कर लें कि :–
- प्रश्न पुस्तिका संख्या तथा ओ.एम.आर. उत्तर–पत्रक पर अंकित बारकोड संख्या समान है।
- प्रश्न पुस्तिका एवं ओ.एम.आर. उत्तर–पत्रक के सभी पृष्ठ व सभी प्रश्न सही मुद्रित हैं। समस्त प्रश्न जैसा कि ऊपर वर्णित है, उपलब्ध हैं तथा कोई भी पृष्ठ कम नहीं है/मुद्रण त्रुटि नहीं है।
किसी भी प्रकार की विसंगति या दोषपूर्ण होने पर परीक्षार्थी वीक्षक से दूसरी प्रश्न पुस्तिका प्राप्त कर लें। यह सुनिश्चित करने की जिम्मेदारी अभ्यर्थी की होगी। परीक्षा प्रारम्भ होने के 5 मिनट पश्चात ऐसे किसी दावे/आपत्ति पर कोई विचार नहीं किया जायेगा।
On opening the paper seal/polythene bag of the Question Booklet before attempting the question paper the candidate should ensure that:-
- Question Booklet Number and Barcode Number of OMR Answer Sheet are same.
- All pages & Questions of Question Booklet and OMR Answer Sheet are properly printed. All questions as mentioned above, are available and no page is missing/misprinted.
If there is any discrepancy/defect, candidate must obtain another Question Booklet from Invigilator. Candidate himself shall be responsible for ensuring this. No claim/objection in this regard will be entertained after **five** minutes of start of examination.

परीक्षार्थियों के लिए निर्देश

1. प्रत्येक प्रश्न के लिये एक विकल्प भरना अनिवार्य है।
2. सभी प्रश्नों के अंक समान हैं।
3. प्रत्येक प्रश्न का मात्र एक ही उत्तर दीजिये। एक से अधिक उत्तर देने की दशा में प्रश्न के उत्तर को गलत माना जाएगा।
4. **OMR** उत्तर–पत्रक इस प्रश्न पुस्तिका के अन्दर रखा है। जब आपको प्रश्न पुस्तिका खोलने को कहा जाए, तो उत्तर–पत्रक निकाल कर ध्यान से केवल **नीले बॉल प्वॉइंट पेन** से विवरण भरें।
5. कृपया अपना रोल नम्बर ओ.एम.आर. उत्तर–पत्रक पर सावधानीपूर्वक सही भरें। गलत रोल नम्बर भरने पर परीक्षार्थी स्वयं उत्तरदायी होगा।
6. प्रत्येक गलत उत्तर के लिए प्रश्न अंक का 1/3 भाग काटा जायेगा। गलत उत्तर से तात्पर्य अशुद्ध उत्तर अथवा किसी भी प्रश्न के एक से अधिक उत्तर से है।
7. प्रत्येक प्रश्न के पांच विकल्प दिये गये हैं, जिन्हें क्रमशः 1, 2, 3, 4, 5 अंकित किया गया है। अभ्यर्थी को सही उत्तर निर्दिष्ट करते हुए उनमें से केवल एक गोले (बबल) को उत्तर–पत्रक पर नीले बॉल प्वॉइंट पेन से गहरा करना है।
8. यदि आप प्रश्न का उत्तर नहीं देना चाहते हैं, तो उत्तर–पत्रक में पांचवें (5) विकल्प को गहरा करें। यदि पांच में से कोई भी गोला गहरा नहीं किया जाता है, तो ऐसे प्रश्न के लिये प्रश्न अंक का 1/3 भाग काटा जायेगा।
9.* प्रश्न पत्र हल करने के उपरांत अभ्यर्थी अनिवार्य रूप से ओ.एम.आर. आंसर शीट जांच लें कि समस्त प्रश्नों के लिये एक विकल्प (गोला) भर दिया गया है। इसके लिये ही निर्धारित समय से 10 मिनट का अतिरिक्त समय दिया गया है।
10. यदि अभ्यर्थी 10% से अधिक प्रश्नों में पांच विकल्पों में से कोई भी विकल्प अंकित नहीं करता है, तो उसको अयोग्य माना जायेगा।
11. मोबाइल फोन अथवा इलेक्ट्रॉनिक यंत्र का परीक्षा हॉल में प्रयोग पूर्णतया वर्जित है। यदि किसी अभ्यर्थी के पास ऐसी कोई वर्जित सामग्री मिलती है, तो उसके विरुद्ध आयोग द्वारा नियमानुसार कार्यवाही की जायेगी।

चेतावनी : अगर कोई अभ्यर्थी नकल करते पकड़ा जाता है या उसके पास से कोई अनधिकृत सामग्री पाई जाती है, तो उस अभ्यर्थी के विरुद्ध पुलिस में प्राथमिकी दर्ज कराते हुए और राजस्थान सार्वजनिक परीक्षा (भर्ती में अनुचित साधनों की रोकथाम अध्युपाय) अधिनियम, 2022 तथा अन्य प्रभावी कानून एवं आयोग के नियमों–प्रावधानों के तहत कार्यवाही की जाएगी। साथ ही आयोग ऐसे अभ्यर्थी को भविष्य में होने वाली आयोग की समस्त परीक्षाओं से विवर्जित कर सकता है।

INSTRUCTIONS FOR CANDIDATES

1. It is mandatory to fill one option for each question.
2. All questions carry equal marks.
3. Only one answer is to be given for each question. If more than one answers are marked, it would be treated as wrong answer.
4. The **OMR** Answer Sheet is inside this Question Booklet. When you are directed to open the Question Booklet, take out the Answer Sheet and fill in the particulars carefully with **BLUE BALL POINT PEN** only.
5. Please correctly fill your Roll Number in OMR Answer Sheet. Candidate will themself be responsible for filling wrong Roll Number.
6. **1/3 part of the mark(s) of each question will be deducted for each wrong answer.** A wrong answer means an incorrect answer or more than one answers for any question.
7. Each question has five options marked as 1, 2, 3, 4, 5. You have to darken only one circle (bubble) indicating the correct answer on the Answer Sheet using BLUE BALL POINT PEN.
8. If you are not attempting a question, then you have to darken the circle '5'. If none of the five circles is darkened, one third (1/3) part of the marks of question shall be deducted.
9.* After solving the question paper, candidate must ascertain that he/she has darkened one of the circles (bubbles) for each of the questions. Extra time of 10 minutes beyond scheduled time is provided for this.
10. A candidate who has not darkened any of the five circles in more than 10% questions shall be disqualified.
11. Mobile Phone or any other electronic gadget in the examination hall is strictly prohibited. A candidate found with any of such objectionable material with him/her will be strictly dealt as per rules.

Warning : If a candidate is found copying or if any unauthorized material is found in his/her possession, F.I.R. would be lodged against him/her in the Police Station and he/she would liable to be prosecuted under **Rajasthan Public Examination (Measures for Prevention of Unfair means in Recruitment) Act, 2022**, other law applicable and Commission's Regulations. Commission may also debar him/her permanently from all future examinations.

उत्तर–पत्रक में दो प्रतियां हैं – मूल प्रति और कार्बन प्रति। परीक्षा समाप्ति पर परीक्षा कक्ष छोड़ने से पूर्व परीक्षार्थी उत्तर–पत्रक की दोनों प्रतियां वीक्षक को सौंपेंगे, परीक्षार्थी स्वयं कार्बन प्रति अलग नहीं करें। वीक्षक उत्तर–पत्रक की मूल प्रति को अपने पास जमा कर, कार्बन प्रति को मूल प्रति से कट लाईन से मोड़कर सावधानीपूर्वक अलग कर परीक्षार्थी को सौंपेंगे, जिसे परीक्षार्थी अपने साथ ले जायेंगे। परीक्षार्थी को उत्तर–पत्रक की कार्बन प्रति चयन प्रक्रिया पूर्ण होने तक सुरक्षित रखनी होगी एवं आयोग द्वारा मांगे जाने पर प्रस्तुत करनी होगी।

1. The process of organizing subsystems so as to reduce the number of interconnections is termed as ....

   (1) Decomposition

   (2) Simplification

   (3) Regrouping

   (4) Decoupling

   (5) Question not attempted

2. Which of the following is correct definition of Coupling in Java language?

   (1) Degree to which elements of a module belong together.

   (2) The ability of a class to inherit from other classes.

   (3) Process of hiding internal details of a module.

   (4) Degree of direct knowledge one class has of other.

   (5) Question not attempted

3. Which command is used to convert the code written in Java to bytecode?

   (1) javap

   (2) java

   (3) javadoc

   (4) javac

   (5) Question not attempted

4. .... is a usable system or system component that is built quickly and at lesser cost and with the intention of modifying or replacing it by a full-scale and fully operational system.

   (1) Approved system

   (2) Increment

   (3) Prototype

   (4) Spiral

   (5) Question not attempted

5. What will be the value of 'val' displayed when JSP page is accessed for the third time since server startup?

   <%! int val = 0; %>

   <% val++; %>

   <html> <body> <p> val : <% = val%> </p> </body> </html>

   (1) 1

   (2) 2

   (3) 3

   (4) The value of val will remain 0

   (5) Question not attempted

6. Which of the following streams is used to deserialize the primitive data and objects in Java?

(1) PrintWriter

(2) BufferedReader

(3) FileWriter

(4) ObjectInputStream

(5) Question not attempted

7. System Design is carried out ....

(1) as soon as system requirements are determined.

(2) whenever the System Analyst feels it to be urgent.

(3) after the final system specifications are approved by the management.

(4) whenever the management feels it to be urgent.

(5) Question not attempted

8. ...., a program development tool, shows how the program has been partitioned into smaller more manageable modules, the hierarchy and organization of those modules and the communication interfaces between modules.

(1) Structure Chart

(2) Fourth Generation Language Tools (4GL Tools)

(3) Object-Oriented Programming and Design Tools

(4) Program Flow Chart

(5) Question not attempted

9. What is Polymorphism in Java?

(1) The ability of a single method to perform different tasks.

(2) The ability of different methods to perform different tasks.

(3) The ability of a class to inherit properties of another class.

(4) The ability of a single variable to hold multiple values.

(5) Question not attempted

10. In testing, alongwith batch control, which of the following programmed check cannot be used?

(1) Sequence check

(2) Completeness check

(3) Consistency check

(4) Consumable check

(5) Question not attempted

11. In the statement 'System.out.println("Hello World!")', the keyword 'out' stands for the following -

(1) Static member of the 'System' class

(2) An interface in the Java standard library

(3) A method in the 'System' class

(4) Class in the Java standard library

(5) Question not attempted

12. What does the following code do?

```
public class Example {
    private int var;
    public Example(int var) {
        this.var = var;
    }
}
```

(1) Creates a new instance of the class Example.

(2) Throws an error because this cannot be used.

(3) Assigns the parameter var to the instance variable var.

(4) Compilation Error.

(5) Question not attempted

13. What is the output of the following code?

```
public class Demo {
    public static void main(String[] args) {
        int x=5;
        System.out.println(++x*2);
    }
}
```

(1) 12

(2) 11

(3) 10

(4) Compile time error

(5) Question not attempted

14. What is bytecode in Java?

(1) Machine-dependent code in Java.

(2) Source code in Java.

(3) Intermediate machine-independent code generated by Java compiler.

(4) Machine code specified to a processor.

(5) Question not attempted

15. Which of the following class in Java is responsible for handling files in Java?

(1) FileStream

(2) FileHandler

(3) File

(4) FileManager

(5) Question not attempted

16. .... refers to the automation of anything that humans do to develop systems and supports virtually all phases of Traditional System Development Process.

(1) Decision Tree

(2) Computer-Aided-Software Engineering (CASE)

(3) System Flow Charts

(4) Data Flow Diagram

(5) Question not attempted

17. Which syntax is incorrect to initialize a two-dimensional array in Java?

(1) int myarr[][] = new int[3][4];

(2) int[][] myarr = { {1, 2, 3}, {4, 5, 6} };

(3) int[][] myarr = new int[3][4];

(4) int myarr = new int[3][4];

(5) Question not attempted

18. Which of the following Symbol in Data Flow Diagrams represents Data Store?

(1) ⟶

(2) ═══

(3) ▭

(4) ⬭

(5) Question not attempted

19. Which of the following activity is not involved in the Design of Database during System Designing phase of System Development Life Cycle?

(1) Physical Layout Design

(2) Data Modeling

(3) Conceptual Modeling

(4) Input/output Volume

(5) Question not attempted

20. Which of the following is a commonly used Object Oriented Programming Language?

(1) PROLOG

(2) C Language

(3) JAVA

(4) COBOL

(5) Question not attempted

21. .... refers to the set of task that ensures that software correctly implements a specific function.

(1) Validation

(2) Veracity

(3) Verification

(4) Volume

(5) Question not attempted

22. .... approach of system development is easy to accommodate product changes, but not suitable for large high-risk or mission critical projects.

(1) Rapid Application Development (RAD)

(2) Spiral

(3) Agile

(4) Prototype

(5) Question not attempted

23. A .... describes how a user interacts with the system by defining the steps required to accomplish a specific goal.

(1) DFD

(2) Program Flow Chart

(3) Use Case Diagram

(4) System Chart

(5) Question not attempted

24. .... is an indication of the relative functional strength of a module.

(1) Aversion

(2) Cohesion

(3) Ripple effect

(4) Coupling

(5) Question not attempted

25. Which of the following is the correct way to create an abstract class in Java?

(1) class Demo {

          abstract void fun();

      }

(2) class abstract Demo {

          void abstract fun();

      }

(3) abstract class Demo {

          abstract void fun();

      }

(4) abstract class Demo {

          void fun() {

               abstract;

      }

    }

(5) Question not attempted

26. Which of these classes are the direct subclasses of the Throwable Class?

(1) Exception and VirtualMachineError Class

(2) Error and Exception Class

(3) IOException and VirtualMachineError Class

(4) Runtime Exception and Error Class

(5) Question not attempted

27. A................is a record of historical data that remains in a file, used for reference and serves as control on key details.

(1) Rewrite form

(2) Report form

(3) Memory form

(4) Record form

(5) Question not attempted

28. Which of the following is true about JSP?

(1) JSP pages are interpreted at runtime.

(2) JSP pages are compiled into servlets.

(3) JSP is not used to make interactive web pages.

(4) JSP pages cannot use Java code.

(5) Question not attempted

29. What is the correct sequence of steps for handling a client in a Java servlet as per the lifecycle of a servlet?

(1) Init method, Service method, doPost/doGet method

(2) Init method, doPost/doGet method, Service method

(3) Service method, doPost/doGet method, Destroy method

(4) Init method, Service method, Destroy method

(5) Question not attempted

30. Which of the following is NOT a stage of agile software development approach?

(1) Documenting

(2) Exploration

(3) Maintenance

(4) Planning

(5) Question not attempted

31. Which one of the following correctly defines a System?

(1) System may be defined as a group of two or more interrelated components or sub-systems that serve a common purpose.

(2) System may be defined as a group of two or more interrelated components or sub-systems that function independently of the others and do not contribute to the common goal.

(3) System may be defined as a group of two or more interrelated components or sub-systems that do not serve a common purpose.

(4) System may be defined as a group of elements that operate in a predictable manner.

(5) Question not attempted

32. What will be the output of the code after the given code executes?

```
int a = 5;
int b = a++;
System.out.println("a=" + a + " b=" +b);
```

(1) a = 6 b = 5

(2) a = 5 b = 6

(3) a = 6 b = 6

(4) a = 5 b = 5

(5) Question not attempted

33. Mr. X is a member of System Development Team who visits his client company XYZ Ltd. frequently to interview its employees to gather the details regarding the drawbacks of the existing system in the company XYZ Ltd. and understand their future requirements. Identify the role Mr. X is performing.

(1) Programmer

(2) Project Leader

(3) System Analyst

(4) Project Manager

(5) Question not attempted

34. Which statement is true about an Interface in Java?

(1) An interface cannot extend another interface.

(2) An interface can contain implemented methods.

(3) An interface can contain instance variables.

(4) A class can implement multiple interfaces.

(5) Question not attempted

35. What is the correct way to close a file in Java after writing to it?

(1) fileInput.close();

(2) file.close();

(3) fileWriter.close();

(4) fileStream.close();

(5) Question not attempted

36. What will be the value of arr[2] in the following code?

String[] arr = new String[3];

arr[0] = "Maths";

arr[1] = "Science";

(1) Null

(2) "Science"

(3) "Maths"

(4) " "

(5) Question not attempted

37. In Java, what is a Base Class?

(1) A class that is used as a template to create other classes and can be instantiated directly.

(2) A class that is used as a foundation for other classes to inherit properties and methods.

(3) A class that contains only static methods and variables.

(4) A class that cannot be inherited by other classes and is only used for creating objects.

(5) Question not attempted

38. Financial Feasibility Study is carried out by the System Analysts to evaluate that ....

(1) it will be profitable to implement the system.

(2) the proposed system will result in improved operations.

(3) finances are available to implement the proposed system and it will be cost-effective.

(4) implementation will lead to low operating cost.

(5) Question not attempted

39. ...., are computerized information systems that were developed to process large amount of data for routine business transactions such as payroll and inventory.

(1) Knowledge Work Systems (KWS)

(2) Group Decision Support System (GDSS)

(3) Transaction Processing Systems (TPS)

(4) Office Automated System (OAS)

(5) Question not attempted

40. What will be the result of following Java code?

```java
public class MyString {
        public static void main(String[] args) {
                String s1 = "Program";
                String s2 = "Program";
                System.out.println(s1 == s2); }
        }
```

(1) True

(2) Compilation error

(3) Runtime error

(4) False

(5) Question not attempted

41. Each time a new module is added to the system, new data flow paths are established, new input/output may occur and new control logic is invoked. These changes may cause problems with functions that previously worked flawlessly. ....Tests ensure that changes or corrections have not introduced new errors.

(1) Top-Down Integration

(2) Regression

(3) Bottom-Up Integration

(4) Performance

(5) Question not attempted

42. The maintenance input of matter and energy required to repair, replenish and maintain the system is termed as ....

(1) System Maintenance

(2) Debugging

(3) Positive Entropy

(4) Negative Entropy

(5) Question not attempted

43. Code ....is the quality of a good coded program that makes it easy to understand, modify and maintain by other developers.

(1) resistance

(2) adaptability

(3) effectiveness

(4) readability

(5) Question not attempted

44. What is the output of following code?

```java
public class ex {
    public static void main(String[] args) {
        int[] a = {1, 2, 3, 4, 5};
        printn(a);
    }
    public static void printn(int[] a) {
        for(int n : a) {
            System.out.print(n + " ");
        }
    }
}
```

(1) Compilation error

(2) 5 4 3 2 1

(3) Runtime error

(4) 1 2 3 4 5

(5) Question not attempted

45. Size of "int" data type in Java language is -

(1) 64-bits

(2) 16-bits

(3) 8-bits

(4) 32-bits

(5) Question not attempted

46. .... are conceptual and non-physical entities that may be formulas, representation or model of a real system.

(1) Physical systems

(2) Abstract systems

(3) Deterministic systems

(4) Probabilistic systems

(5) Question not attempted

47. What output is produced for the command: "java cmd a b c d", when following code is run?

```
class cmd {
    public static void main(String args[]) {
    System.out.println(args[2]);
    }
}
```

(1) c

(2) cmd

(3) b

(4) a

(5) Question not attempted

48. Which of the following code gives error of "outofbounds" in array?

(1) int[] a = new int[5]; a[4]=5;

(2) int[] a = {1, 2, 3, 4, 5}; System.out.print(a[2]);

(3) int[] a = new int[10]; for (int i=0; i < a.length; i++) {a[i] = i*2;}

(4) int[] a = new int[3]; a[3] = 9;

(5) Question not attempted

49. Which of these exceptions is thrown in cases when the file specified for writing is not found?

(1) FileOutputException

(2) FileException

(3) FileNotFoundException

(4) IOException

(5) Question not attempted

50. Project requests are evaluated in the .... phase of System Development Life Cycle.

(1) Preliminary Investigation

(2) System Testing

(3) System Design

(4) Requirement Analysis

(5) Question not attempted

51. What will be the output of the following code?

```java
public class Demo {
 public static void main(String[] args) {
  String str="Hello";
  str=str+"World";
  str=str.substring(5,10);
  System.out.println(str);
  }
}
```

(1) Hello

(2) Hello World

(3) ello

(4) World

(5) Question not attempted

52. Consider the following class definition:

```java
public class Test {
        int var; String myString;
        public Test(){
                this(0, "Default");}
        public Test(int var, String myString) {
           this.var = var; this.myString = myString;
        }
}
```

What will the following code do?

```java
        Test test = new Test();
```

(1) Create an object test with var = 0 and myString = "Default"

(2) Throw a runtime exception

(3) Create an object test with var = 0 and myString = null

(4) Throw a compilation error

(5) Question not attempted

53. What is Encapsulation in Java?

(1) The ability of one class to inherit the properties of another class.

(2) The ability of an object to take many forms.

(3) Integrating data (variables) and code (methods) into a single unit.

(4) The ability to overload methods.

(5) Question not attempted

54. What does the .NET framework primarily consist of?

(1) JVM and Web forms

(2) CLR and Web forms

(3) CLR and .NET framework class libraries

(4) JVM and Base class libraries

(5) Question not attempted

55. Which of the following is a correct statement about constructors in Java?

(1) Constructors cannot be overloaded.

(2) A constructor can be called directly like a regular method.

(3) A constructor does not have a return type, not even void type.

(4) A class can have only one constructor.

(5) Question not attempted

56. Fact Finding Technique through .... enables the analysts to collect a large amount of data through a variety of users quickly.

(1) Interviews

(2) Documents

(3) Observations

(4) Questionnaires

(5) Question not attempted

57. ....,..... is a visual representation that depicts the information flow and the transformation that are applied to data as data moves from input to output.

(1) Data Flow Diagram

(2) System Flow Chart

(3) Layout Form

(4) Hierarchy Chart

(5) Question not attempted

58. Which of the following is not a valid variable name in Java language?

(1) x15

(2) rate

(3) rate_of_taxi

(4) rate-of-taxi

(5) Question not attempted

59. Which user acceptance testing is generally performed by the external users and normally involves sending the product outside for real world exposure?

(1) Beta testing

(2) Gamma testing

(3) Alpha testing

(4) Regression testing

(5) Question not attempted

60. ....Tests on a program unit are performed to check "whether programs do what they are expected to do or not".

(1) Performance

(2) Structural

(3) Stress

(4) Functional

(5) Question not attempted

61. The goal of requirements .... is to collect and document what various stakeholders want from the software that is to be built.

(1) analysis

(2) gathering

(3) list

(4) specification

(5) Question not attempted

62. Scrum is an agile software development method, in which, within each framework activity, work tasks occur within a process pattern called ....

(1) Sprint

(2) Demo

(3) Backlog

(4) Scrum master

(5) Question not attempted

63. What will be the output of the following program?

```java
public class Demo {
    public static void main(String[] args) {
        int[] arr={120, 200, 016};
        for (int i=0; i<arr.length; i++) {
            System.out.print(arr[i]+" ");
        }
    }
}
```

(1) 120 200 14

(2) 120 200 016

(3) Compilation Error

(4) 120 200 16

(5) Question not attempted

64. What will be the output of the following code?

```java
class Vehicle {
    public void move() {
        System.out.println("Vehicle is moving");
    }
}
class Car extends Vehicle {
    public void move() {
        System.out.println("Car is moving");
    }
}
public class Main {
    public static void main(String[] args) {
        Vehicle v = new Car();
        v.move();
    }
}
```

(1) Runtime error

(2) Vehicle is moving

(3) Compilation error

(4) Car is moving

(5) Question not attempted

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65. .... tests are performed on a program unit to verify the response time, the execution time, the throughput, primary and secondary memory utilization and traffic rates on data channels and communication links.

(1) Performance

(2) Stress

(3) Parallel

(4) Functional

(5) Question not attempted

66. .... is a program development tool used for specifying program logic.

(1) DFD

(2) Structure Chart

(3) Program Flow Chart

(4) Fourth Generation Language Tools (4GL Tools)

(5) Question not attempted

67. The .... approach of system development is not suitable for accommodating changes as it follows all sequential steps.

(1) Agile

(2) Prototyping

(3) Waterfall

(4) Rapid Application Development (RAD)

(5) Question not attempted

68. Conducting study to find out if the proposed system can be used by the employees or not is covered under the .... feasibility.

(1) Technical

(2) Schedule

(3) Economic

(4) Operational

(5) Question not attempted

69. Technical Feasibility is carried out by the System Analysts to evaluate ....

(1) that the needed technology is available.

(2) that there will be no resistance for the implementation of the new system.

(3) the cost of converting and preparing data files and the cost of preparing new or expanded computer facilities.

(4) the time within which the new system will become operational.

(5) Question not attempted

70. Which component of Java platform is responsible for converting bytecode into machine-specific code?

(1) Java Runtime Environment (JRE)

(2) Java Development Kit (JDK)

(3) Java Compiler

(4) Java Virtual Machine (JVM)

(5) Question not attempted

71. Which keyword is used in Java to inherit a class?

(1) inherits

(2) extends

(3) implements

(4) super

(5) Question not attempted

72. If A is a superclass and B is a subclass of it and C is subclass of B, in what order the constructors that make up the classes be called?

(1) A, C, B

(2) A, B, C

(3) C, A, B

(4) C, B, A

(5) Question not attempted

73. The interconnections and interactions between the sub-systems are termed as ....

(1) Connectors

(2) Interfaces

(3) Protocols

(4) Links

(5) Question not attempted

74. Which of the following correctly declares a method that accepts one dimensional array of double as a parameter?

(1) public void fun(double *arr[])

(2) public void fun(double[] arr)

(3) public void fun(arr double[])

(4) public void fun(double arr)

(5) Question not attempted

75. Which of the following is not an access modifier in Java language?

(1) Public

(2) Private

(3) Protected

(4) External

(5) Question not attempted

76. Which of the following is false about Vector class in Java?

(1) It is part of java.util package.

(2) It is synchronized.

(3) It can grow or shrink as needed.

(4) It is part of java.io package.

(5) Question not attempted

77. A generic process framework for software engineering defines five framework activities. A.............executes each of these five framework activities in sequence.

(1) evolutionary flow

(2) parallel process flow

(3) linear process flow

(4) iterative flow

(5) Question not attempted

78. Which of the following Java technology is used for server-side programming in Internet applications?

(1) Java Servlet

(2) Java Swing

(3) JavaFX

(4) Java Applets

(5) Question not attempted

79. System Requirements Specification (SRS) document does NOT include ....

(1) Non-Functional Attributes

(2) Design Solutions

(3) Schedule and Budget

(4) Functional Requirements

(5) Question not attempted

80. Which of the following general problem solving step is equivalent to system analysis in software development process?

(1) Design the chosen problem

(2) Implement the chosen solution

(3) Identify the solution requirements and expectations

(4) Identify the problem

(5) Question not attempted

81. Which protocol does RMI use to communicate between objects distributed across a network?

(1) HTTP

(2) TCP/IP

(3) SMTP

(4) FTP

(5) Question not attempted

82. Which of the following statement is true about public and private members in Java?

(1) Private members can be accessed from any other class.

(2) Private members can be accessed from subclasses.

(3) Public members can only be accessed within the same class.

(4) Public members can be accessed from any other class.

(5) Question not attempted

83. Which of the following software testing verifies that all elements mesh properly and that overall system function/performance is achieved?

(1) Unit testing

(2) Integration testing

(3) Validation testing

(4) System testing

(5) Question not attempted

84. A company was recommended to adopt a new Accounting System. The company was advised to use both the old and the new Accounting Systems alongside each other, both being able to operate independently. If all goes well, the old system is discontinued and the new system carries on as the only system. Which of the following new Accounting System implementation strategy was advised to the company?

(1) Phased Implementation

(2) Direct Implementation

(3) Parallel Implementation

(4) Pilot Implementation

(5) Question not attempted

85. Which part of a Decision Table comprehensively lists the comparisons or conditions?

    (1) Action Entries

    (2) Condition Entries

    (3) Condition Stub

    (4) Action Stub

    (5) Question not attempted

86. Most of the Information Systems require some modification after development. There are different categories of Maintenance which are Scheduled, Adaptive, Corrective, Rescue, Preventive and Perfective. Which of the following statement is NOT correct about these categories of Maintenance?

    (1) Corrective Maintenance deals with fixing bugs in the code or defects found during the executions.

    (2) Scheduled Maintenance is anticipated and can be planned in advance.

    (3) Adaptive Maintenance mainly deals with accommodating to the new or changed user requirements.

    (4) Rescue Maintenance deals with the undetected malfunctions that require immediate troubleshooting solution.

    (5) Question not attempted

87. ....errors occur when the code executes without errors but the output is not what the programmer intended.

    (1) Compilation

    (2) Logical

    (3) Syntax

    (4) Semantic

    (5) Question not attempted

88. What is the right syntax to read an integer from the user in Java?

    (1) Scanner sc = new Scanner(System.in); int num = sc.readInt();

    (2) Scanner sc = new Scanner(System.in); int num = sc.inputInt();

    (3) Scanner sc = new Scanner(System.in); int num = sc.nextInt();

    (4) Scanner sc = new Scanner(System.in); int num = sc.getInt();

    (5) Question not attempted

89. Which of the following is the most important feature that makes Java suitable for Internet applications?

    (1) Faster execution

    (2) Object oriented & robust

    (3) Portable and distributed

    (4) Simple & secure

    (5) Question not attempted

90. ....Test is not included in unit testing.

   (1) Performance

   (2) Stress

   (3) Security

   (4) Structural

   (5) Question not attempted.

91. What is the purpose of the 'new' keyword in Java?

   (1) Defines a new method

   (2) Imports a package

   (3) Creates a new object instance

   (4) Declares a new variable

   (5) Question not attempted

92. In the 'System Requirements Specification' document, behavioural description covers ....

   (1) classes of tests to be performed to validate functions, performance and constraints.

   (2) Diagrammatic representation of functions; Processing narrative for each function; Interplay among functions; Design constraints.

   (3) goals and objectives of the software context of the computer-based system; information description.

   (4) response to external events and internal controls.

   (5) Question not attempted

93. What is the main role of Java Development Kit (JDK)?

   (1) To provide only runtime environment for Java Applications

   (2) To provide a Graphical User Interface

   (3) To only compile and run Java Applications

   (4) To create, compile and execute Java Applications

   (5) Question not attempted

94. Which of the following is true about Java applets?

   (1) No plugin is required to run an applet.

   (2) They run within a web browser and work at server side.

   (3) Applets are not secured.

   (4) They run within a web browser and work at client side.

   (5) Question not attempted

95. .... is a structured repository of data, about data.

   (1) Data Flow Diagram

   (2) System Components Matrix

   (3) Data Dictionary

   (4) Decision Table

   (5) Question not attempted

96. "System Requirements Specification (SRS)" document is prepared by the System Analyst at the end of .... phase of System Development Life Cycle.

(1) Systems Design

(2) Systems Implementation

(3) Preliminary Investigation

(4) Systems Requirement Analysis

(5) Question not attempted

97. A class that exhibits a high degree of primitiveness encapsulates only..................operations.

(1) Volatility

(2) Primitive

(3) Cohesive

(4) Similarity

(5) Question not attempted

98. What do you mean by Method Overloading in Java?

(1) Having two methods with the same name in different packages.

(2) Having two methods with the same name and same parameters.

(3) Having two methods with the same name but different parameters.

(4) Having two methods with the same name in different classes.

(5) Question not attempted

99. Which of the following is NOT an advantage of Java bytecode?

(1) Portability

(2) Security

(3) Platform independent

(4) Faster execution than machine code

(5) Question not attempted

100. Which software testing is used to check the defects in software without executing the actual code?

(1) Static testing

(2) Black Box

(3) White Box

(4) Performance Analysis testing

(5) Question not attempted

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Q. No.	RES	Q. No.	RES
1	2	51	4
2	4	52	1
3	4	53	3
4	3	54	3
5	3	55	3
6	4	56	4
7	3	57	1
8	1	58	4
9	1	59	1
10	4	60	4
11	1	61	2
12	3	62	1
13	1	63	1
14	3	64	4
15	3	65	1
16	2	66	3
17	4	67	3
18	2	68	4
19	4	69	1
20	3	70	4
21	3	71	2
22	3	72	2
23	3	73	2
24	2	74	2
25	3	75	4
26	2	76	4
27	3	77	3
28	2	78	1
29	4	79	2
30	1	80	3
31	1	81	2
32	1	82	4
33	3	83	4
34	4	84	3
35	3	85	3
36	1	86	3
37	2	87	2
38	3	88	3
39	3	89	3
40	1	90	3
41	2	91	3
42	4	92	4
43	4	93	4
44	4	94	4
45	4	95	3
46	2	96	4
47	1	97	2
48	4	98	3
49	3	99	4
50	1	100	1

* Means deleted (if any)