

High Court of Gujarat, Sola, Ahmedabad
No. RC/A/1316/2020

**Questions with Final Answers for the Preliminary Examination (Screening Test) held on 01-08-2021 for Direct Recruitment to the post of Programmer
(Recruitment Cell)**

Que. No.	Question	Option A	Option B	Option C	Option D	Final Answer
1	Which of the following is parent class of GenericServlet?	HttpServlet	Servlet	Object	None of these	C
2	RMI stands for	Remote Method Invocation	Remote Procedure invocation	Remote Method Interface	None of these	A
3	How are java web applications packaged?	jar	war	both jar and war	zip	B
4	Which are the session tracking techniques?	URL rewriting	Using cookie	Using hidden fields	All the mentioned	D
5	A package is a collection of	Interfaces	Classes	Both Interfaces and Classes	None of these	C
6	Which of the following algorithms is NOT a divide & conquer algorithm by nature?	Euclidean algorithm to compute the greatest common divisor	Heap Sort	Quick Sort	Cooley-Tukey fast Fourier transform	A
7	Which of the given language is not commonly used for AI?	LISP	PROLOG	Python	Perl	D
8	Weak AI is	a set of computer programs that produce output that would be considered to reflect intelligence if it were generated by humans.	the study of mental faculties through the use of mental models implemented on a computer.	the embodiment of human intellectual capabilities within a computer.	All of these	B
9	Which is not the correct meaning of 4 'v's of big data?	Volume	Various	Variety	Velocity	B
10	In how many forms Big Data could be found?	2	3	4	5	B
11	The algorithm for consensus in the Bitcoin blockchain is called protocol.	Proof of Stake	Proof of Worth	Proof of Work	Proof of Elapsed Time	C
12	Where are the transactions recorded in a blockchain?	on a SQL Database	on a distributed immutable ledger	on a centralized immutable ledger	on a SQLite Database	B

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13	Which of the following statements is true about blockchain?	A blockchain is a decentralized, distributed, and oftentimes public, digital ledger consisting of records called blocks	A blockchain database is managed autonomously using a peer-to-peer network and a distributed timestamping server	A blockchain has been described as a value-exchange protocol.	All of these	D
14	What is a node?	A type of cryptocurrency	A blockchain	A computer on a blockchain network	An exchange	C
15	What does P2P stand for?	Password to Password	Peer to Peer	Product to Product	Private key to Public key	B
16	Which of the following areas is affected by BUSINESS INTELLIGENCE?	Revenue	CRM	Sales	CPM	B
17	What is output of below code? int main() { char *ptr = "GeeksQuiz"; printf("%c", *&*ptr); return 0; }	Compiler Error	Garbage Value	Runtime Error	G	D
18	Which of the following is invalid header file in C?	math.h	ctype.h	string.h	mathio.h	D
19	Which of the following can be considered as the member(s) that can be inherited but not accessible in any class?	Public	Protected	Private	Public and Protected both	C

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20	What is output of below program? <pre>int main() { int a=10; int b,c; b = a++; c = a; cout<<a<<b<<c; return 0; }</pre>	111011	111111	101011	101010	A
21	If a base constructor is not virtual, then	it cannot have a function body	it cannot be called	it cannot be called when accessed from pointer	destructor is derived class cannot be called when accessed through a pointer to the base class.	D
22	Which of the following is essential concept related to Cloud?	Reliability	Productivity	Abstraction	All of the mentioned	C
23	The private cloud is	a cloud service inaccessible to anyone but the cultural elite	standard cloud service offered via the Internet	cloud architecture maintained within an enterprise data center.	All of these	C
24	Which of these techniques is vital for creating cloud computing centers?	Virtualization	Transubstantiation	Cannibalization	Insubordination	A
25	Which of the following IP addresses can be used as loop-back address?	0.0.0.0	127.0.0.1	255.255.255.255	192.168.255.255	B
26	Which of the following is used to translate domain names to IP Addresses?	NFS	DHCP	DNS	NIS	C

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27	When a TCP segment arrives at a host, the socket to which the segment is directed depends on?	The destination port number	The source port number	The source IP address of the datagram that encapsulated the segment	All the mentioned	D
28	Which of the following approaches to switching share network resources?	Circuit Switching	Packet Switching	Both Circuit Switching and Packet Switching	None of these	B
29	Which of the following is not a benefit of using a proxy server for a web cache?	It reduces load on the access link	It decreases response times for client requests	It increases reliability	It reduces load on the origin server	C
30	CouchDB can be replicated across .....server instances.	multiple	single	limited to 2	None of these	A
31	Data scrubbing is which of the following?	A process to upgrade the quality of data before it is moved into a data warehouse	A process to load the data in the data warehouse and to create the necessary indexes	A process to upgrade the quality of data after it is moved into a data warehouse	A process to reject data from the data warehouse and to create the necessary indexes	A
32	A goal of data mining includes which of the following?	To confirm that data exists	To analyze data for expected relationships	To explain some observed events or condition	To create a new data warehouse	C
33	What is Decision support system (DSS)?	A family of relational database management systems marketed by IBM	Interactive systems that enable decision makers to use databases and models on a computer in order to solve ill-structured problems	It consists of nodes and branches starting from a single root node. Each node represents a test, or decision	None of these	B

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34	In the schema (dept name, size) we have relations total inst 2007, total inst 2008. Which dependency have lead to this relation ?	Dept name, year->size	Year->size	Dept name->size	Size->year	A
35	Designers use which of the following to tune the performance of systems to support time-critical operations?	Denormalization	Redundant optimization	Optimization	Realization	A
36	Which of the following security features that control access resources in the operating system?	Authentication	Identification	Validation	Access Control	D
37	Which of the following is a class of computer threat?	Phishing	Social Engineering	DoS Attack	Stalking	C
38	Which statement is true regarding an object?	An object is what classes instantiated are from	An object is a run time entity	An object is a variable	An object is a reference to an attribute	B
39	Java Varargs are applicable only for ____ .	Constructors	Methods	Both Constructors and Methods	None of these	C
40	What is the output of the below java program? <pre>public class Varargs1 { static void displayStudents(String... stu) { for(String s: stu) System.out.print(s + " "); } public static void main(String args[]) { displayStudents("Bean", "Atkinson", "Milton"); } }</pre>	Bean BeanBean	null nullnull	Bean Atkinson Milton	Compiler error	C

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41	What is the output of the below java program? <pre>public class Varargs2 { void attendance(String... allStu) { System.out.println("Attended: " + allStu.length); } void attendance(boolean... all) { System.out.println("Attended: " + all.length); } public static void main(String args[]) { new Varargs2().attendance(); } }</pre>	Attended: 0	Attended: 0 Attended: 0	No Output	Complier Error	D
42	Different learning methods do not include.....	Memorization	Analogy	Deduction	Introduction	D
43	An android application is a collection of tasks, each of which is called a/an	Context	Intent	Activity	Service	C
44	Android is based on which Kernel?	Linux	Windows	Mac	Redhat	A
45	Instead of Primary Key mongoDB use.....	Embedded documents	Default key _id	mongo	mongod	B
46	MongoDB can be used as a, taking advantage of load balancing and data replication features over multiple machines for storing files.	AMS	CMS	File system	None of these	A
47	Which among the following have the maximum bytes in MySQL?	char	varchar	text type	both char and varchar	C

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48	Which of the following is not the valid name for a column?	To	From	Far	Near	B
49	A functional dependency of the form $x \rightarrow y$ is trivial if	$y \subseteq x$	$x \subseteq y$	$y \subset x$	$x \subset y$ and $y \subset x$	A
50	Length of a Broadcast LAN is 2 Km and it has 107 bps bandwidth and uses CSMA/CD. It is given that signal travels along the wire at 2108m/s. Then what is the minimum size of the packet?	50 bytes	200 bytes	100 bytes	None of these	D
51	In the starting phase of TCP congestion control algorithm, size of congestion control window.....	increase	does not increase	increase Exponentially	increase linearly	C
52	The Protocol Data Unit (PDU) for the application layer in the Internet stack is___.	Segment	Datagram	Message	Frame	C
53	A gateway for the server side object is___	Stub	Remote	Skeleton	Server	C
54	Which is not the type of NoSQL database?	Graph	Key-Value	Documents	Relational	D
55	Which of the following is a NoSQL database?	MongoDB	Cassandra	Redis	All	D
56	What is NoSQL Database?	NoSQL is a database is an enhanced form of RDBMS.	NoSQL is database that is built with enhancements to DBMS.	NoSQL is a database that is built on ways and means other than tables and columns.	None of these	C
57	What is the attack technique used to exploit web sites by altering backend database queries through inputting manipulated queries?	OS command injection	SQL injection	LDAP injection	Xpath injection	B
58	CSRF stands for	Cross-site scripting file	Cross-Site Request Forgery	Cross-Site Required Forgery	Cross-Site Response Forgery	B
59	PHP is an example of scripting language.	Server side	Client side	Browser Side	None of these	A

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60	Which of the following is correct to determine the "truth" of any value not already of the Boolean type?	If the value is a number, it is false if exactly equal to zero and true otherwise.	If the value is a string, it is false if the string is empty (has zero characters) or is the string "0", and is true otherwise.	Values of type NULL are always false.	All of these	D
61	The most common method to get data into a table is to use which command in PostgreSQL?	insert	write	execute	send	A
62	PostgreSQL offers data types to store IPv4, IPv6, and MAC addresses.	TRUE	FALSE	Can be true or false	Can not say	A
63	In which part of memory does the system stores the parameter and local variables of function call?	Heap	Stack	Uninitialized data segment	None of these	B
64	What is the output of below given statement? >>> print(ord('h') - ord('z'))	18	-18	17	-17	B
65	Efficiency in a software product does not include ____	responsiveness	memory utilization	processing time	licensing	D
66	White box testing, a software testing technique is sometimes called ____	Graph Testing	Basic Path	Glass box Testing	Dataflow	C
67	A software configuration management tool helps in __	Keeping track of the schedule based on the milestones reached	Maintaining different versions of the configurable items	Managing manpower distribution by changing the project structure	All of these	B
68	The advantage of better testing in software development is in ____.	Waterfall model	Prototyping	Iterative	All of these	B

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69	In the Spiral model of software development, the primary determinant in selecting activities in each iteration is __	Iteration size	Cost	Adopted process such as Rational Unified Process or Extreme Programming	Risk	D
70	Which of the following stored procedure is used for error messages?	sp_addmessage	sp_dropmessage	sp_altermessage	all of the mentioned	A
71	Point out the correct statement.	Conditional logic applied to the results of the first SQL statements determines which subsequent SQL statements are executed	A stored procedure is a group of Transact-SQL statements pre compiled into a single execution plan	Stored procedures cannot improve performance	All of the mentioned	A
72	Which of the following System Implementation Approaches is the least risky?	Direct approach	Parallel approach	Phased approach	Pilot approach	C
73	In VB.Net what result you get for following code? Dim Str As String = "Mid Function Demo" Console.WriteLine(Mid(MyString, 5))	Mid	Mid F	Funct	Function Demo	ERROR +1 for all

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74	Give the output of the following code: <pre><script type="text/javascript" language="javascript"> var x=5; var y=6; var res=eval("x*y"); document.write(res); </script></pre>	"30"	30	5*6	None of these	B
75	The architecture layer of the application that provides a high-level view of data and actions on data is known as _____	Business - Logic Layer	View - Logic Layer	Domain - Logic Layer	Data-Logic Layer	A
76	To make your website mobile and desktop friendly, you can make your website.	Responsive	Dynamic	Progressive	Static	A
77	Which of the following is true about DHTML?	Dynamic HTML is a markup or programming language	This markup language creates static web pages.	DHTML is not a language, but it is a set of technologies of web development.	It is simply a markup language.	C
78	In Model - View - Controller architecture, the view corresponds to the	Interface layer	Data Access layer	Domain object model	Business logic layer	A
79	Which of the following elements may NOT be used as part of a HTML table element?	td	th	heading	caption	C
80	Which of the following is the most appropriate use for JavaScript?	To generate a JavaServer Page	To validate form data on the client	To create a JavaBean from the database	None of these	B
81	..... invented the photocopier machine in the year 1938.	MacMillon	Chester Carlson	Igor Stevenovi	Cornelius Drebbel	B
82 is known as the 'father of cell phone'.	Marting Taylor	Martin Bucher	Martin Lucas	Martin Cooper	D

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83 invented World Wide Web in the year 1989.	Sir Tim Berners-Lee	J.L.Baird	George Nissen	Bernard Silver	A
84	..... is a chemical that radiates visible light when it is energised after being exposed to light.	Phosphor	Cobalt	Iridium	Plutonium	A
85	The first laptop was invented in the year by Adam Osborne.	1983	1981	1980	1985	B
86	The first Screensaver was invented by in 1983 for an IBM computer.	John Socha	Shigeru Miyamoto	Charles Elwood	Steve Russell	A
87	There are eight bags of rice looking alike, seven of which have equal weight and one is slightly heavier. The weighing balance is of unlimited capacity. Using this balance, the minimum number of trials required to identify the heavier bag is	2	3	4	8	A
88	The sum of the digits of a two-digit number is 12. If the new number formed by reversing the digits is greater than the original number by 54, find the original number.	39	57	66	93	A
89	If a and b are integers and $a-b$ is even, which of the following must always be even?	ab	$a^2 + b^2 + 1$	$a^2 + b + 1$	$ab - b$	D

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90	Five numbers 10, 7, 5, 4 and 2 are to be arranged in a sequence from left to right following the directions given below: 1. No two odd or even numbers are next to each other. 2. The second number from the left is exactly half of the left-most number. 3. The middle number is exactly twice the right-most number. Which is the second number from the right?	2	4	7	10	C
91	Insert seven numbers between 2 and 34, such that the resulting sequence including 2 and 34 is an arithmetic progression. The sum of these inserted seven numbers is	130	120	124	126	D
92	Fatima starts from point P, goes North for 3 km and then East for 4 km to reach point Q. She then turns to face point P and goes 15 km in that direction. She then goes North for 6 km. How far is she from point P, and in which direction should she go to reach point P?	8 km, East	12 km, North	6 km, East	10 km, North	A
93	There are 4 women P, Q, R, S and 5 men V, W, X, Y, Z in a group. We are required to form pairs each consisting of one woman and one man. P is not to be paired with Z and Y must necessarily be paired with someone. In how many ways can 4 such pairs be formed?	74	76	78	80	C

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94	Pointing to the lady on the bus stop, Taruna said, 'She is the sister of the father of my mother's son.' How is the lady related to Taruna?	Mother	Sister	Aunt	Niece	C
95	Which one of the following options is the closest in meaning to the word given below : CYBERBULLYING	The electronic posting of mean-spirited messages about a person often done anonymously	To have a tendency to belittle	To deviate from a straight course	To lack clarity	A
96	Choose the option with words that <i>are not synonyms</i> .	Aversion, dislike	Luminous, radiant	Plunder, loot	Yielding, resistant	D
97	Choose the most appropriate word from the options given below to complete the following sentence : "If we manage to our natural resources, we would leave a better planet for our children."	uphold	restrain	cherish	conserve	D
98	Friendship, no matter how it is, has its limitations. [Select the correct option]	cordial	intimate	secret	pleasant	B
99	Didn't you buy when you went shopping? [Select the correct option]	any paper	much paper	no paper	a few paper	A
100	Raman is confident of speaking English six months as he has been practicing regularly the last three weeks. [Select the correct option]	during, for	within, for	for, in	for, since	B

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Date: 03-12-2021**

**Sd/-
Registrar (Recruitment & Finance)**