

Protected: First Round Model Exit Exam

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Results

92 of 101 questions answered correctly

Your time: 00:17:55

You have reached 92 of 101 point(s), (91.09%)

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1. Question

1 point(s)

Placing multiple processors on same physical chip, is called .

☐ Multitaskin

☐ Asymmetric multiprocessing

☐ Multiprogramming

☒ Multicore

Incorrect

2. Question

1 point(s)

In transmission, the channel capacity is shared by both communicating devices at all times.

☐ automatic

☒ full-duplex

☐ half-duplex

☐ Simplex

Correct

3. Question

1 point(s)

The design issue of Datalink Layer in OSI Reference Model is

☐ Connection control

☐ Synchronization of bits

☐ Representation of bits

☒ Framing

Correct

4. Question

1 point(s)

Which of the following is the main limitation for not running a Web server over a small home network connected to the Internet with a cable modem:

☐ Security risk

☒ Service agreement with ISP

☐ Software limitations.

☐ Hardware limitations.

Correct

5. Question

1 point(s)

What is Weak AI?

☐ 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 using mental models implemented on a computer

☐ all of the mentioned

☐ the embodiment of human intellectual capabilities within a computer

Correct

6. Question

1 point(s)

The data or variables, defined within a **class** are called,

☒ Instance variables

☐ Package

☐ Public

☐ overloading

Correct

7. Question

1 point(s)

Military vehicles on a battlefield with no existing infrastructure will deploy network.

☒ MANET

☐ WAN

☐ Cell Network

☐ LAN

Correct

8. Question

1 point(s)

Computer Network is _____.

☐ Collection of hardware components and computers

☒ All of the Above

☐ Interconnected by communication channels

☐ Sharing of resources and information

Correct

9. Question

1 point(s)

Which of the following statements about a binary tree is correct?

☐ Every binary tree is either complete or full

☐ No binary tree is both complete and full

☒ Every full binary tree is also a complete binary tree

☐ Every complete binary tree is also a full binary tree

Correct

10. Question

1 point(s)

Using the same names with different parameters is known as:-

☐ Inheritance

☒ Overloading

☐ Class

☐ Overriding

Correct

11. Question

1 point(s)

_____ are functions that are defined inside a class that describe the behaviors of an object.

☐ Attributes

☐ Object

☐ Class

☒ Method

Correct

12. Question

1 point(s)

Which of the following is not an application of artificial intelligence?

☐ LIDAR

☐ Chatbots

☒ DBMS

☐ Face recognition system

Correct

13. Question

1 point(s)

The time complexity of quicksort is _____

☐ $O(n)$

☐ $O(\log n)$

☐ $O(n^2)$

☒ $O(n \log n)$

Correct

14. Question**1 point(s)**

The DNS name space is divided into non overlapping

☐ blocks☐ divisions☐ regions☒ zones**Correct****15. Question****1 point(s)**

A graph in which all vertices have equal degree is known as ____

☒ Complete graph☐ Simple graph☐ Regular graph☐ Multi graph**Correct****16. Question****1 point(s)**

Logical address is the address generated by the _____.

☒ CPU☐ I/O☐ MMU☐ Cache Memory**Correct**

17. Question

1 point(s)

In LISP, the addition of 5+8 is entered as_____.

☒ (+5 8)☐ 5+8☐ 5+8=☐ 5 add 8

Correct

18. Question

1 point(s)

Which among the following is not a necessary condition for constructors?

☐ It can contain arguments☒ It must contain a definition body☐ It must not have any return type☐ Its name must be same as that of class

Correct

19. Question

1 point(s)

The one is a media access technique that identifies a collision and doing nothing

☐ Collision avoidance☐ Collision prevention☒ CSMA/CD☐ CSMA/CA

Correct

20. Question**1 point(s)**

What problems could information is stored redundantly in a database?

☐ All of the above

☒ Insertion anomalies

☐ Modification anomalies

☐ Deletion anomalies

Incorrect

21. Question**1 point(s)**

Every node **N** in a binary tree **T** except the root has a unique parent called the _____ of **N**.

☐ Precursor

☒ Predecessor

☐ Antecedents

☐ Forerunner

Correct

22. Question**1 point(s)**

Encapsulation and abstraction differ as _____.

☐ Hiding and hiding respectively

☒ Binding and Hiding respectively

☐ None of the above

- ☐ Hiding and Binding respectively

Correct

23. Question**1 point(s)**

Hardware interrupts usually occur by:

- ☒ starting a hardware device
- ☐ sending a signal to the CPU from specified device.
- ☐ executing a system call from the application program
- ☐ executing the last instruction in an application

Correct

24. Question**1 point(s)**

Which statement is false?

- ☐ Functional dependencies (FDs) are used to specify formal measures of the "goodness" of relational designs.
- ☐ Functional dependencies are constraints that are derived from the meaning and interrelationships of the data attributes
- ☐ Functional dependencies and keys are used to define normal forms for relations.
- ☒ If the attribute X determines the attribute Y, X is functionally dependent on Y.

Correct

25. Question**1 point(s)**

Which one of the following is not relational operator?

- ☐ None

- ☒ <<

☐ >=☐ ==**Correct****26. Question****1 point(s)****Write Your Name and IDNo.**

njk

This response will be awarded full points automatically, but it can be reviewed and adjusted after submission.

Grading can be reviewed and adjusted.

27. Question**1 point(s)**

The clause alter table in SQL can be used to

☒ all of the above☐ alter the default values of an attribute☐ delete an attribute☐ add an attribute**Correct****28. Question****1 point(s)**

Tree structures are used to store data in

☐ File based system.☒ Hierarchical model.☐ Relational model.☐ Network model.**Correct****29. Question****1 point(s)**

Which of the following gives a logical structure of the database graphically?

☐ Architectural representation☐ Database diagram☐ Entity diagram☒ Entity-relationship diagram**Correct****30. Question****1 point(s)**

Why do we need to handle exceptions?

☒ To prevent abnormal termination of program☐ To save memory☐ To encourage exception prone program☐ To avoid syntax errors**Correct****31. Question****1 point(s)**

The advantage of a client /server network over a peer to peer network is

- ☐ Security is better on peer to peer
- ☐ Easy to configuration the client/ server
- ☒ Security is better on client/server
- ☐ Performances is better on peer to peer

Correct

32. Question

1 point(s)

One of the following is the limitation of object-oriented programming?

- ☐ Takes more time to solve problems
- ☐ Not suitable for small problems
- ☒ All
- ☐ Solving problems takes more time
- ☐ Requires intensive testing processes

Correct

33. Question

1 point(s)

The operation of processing each element in the list is known as_____

- ☐ Merging
- ☐ Sorting
- ☐ Inserting
- ☒ Traversal

Correct

34. Question**1 point(s)**

A graph is a tree if and only if graph is

- ☐ Planar
- ☐ Directed graph
- ☒ Contains no cycles
- ☐ Completely connected

Correct**35. Question****1 point(s)**

Which statement is true?

- ☒ A tuple corresponds to a row in a table.
- ☐ A relation variable is inherently a specific set of values.
- ☐ A relation can have different values at different times.
- ☐ None of above

Correct**36. Question****1 point(s)**

Which of the following is not a type of Artificial Intelligence agent?

- ☐ Simple reflex AI agent
- ☐ Goal-based AI agent
- ☒ Unity-based AI agent
- ☐ Learning AI agent

Correct

37. Question**1 point(s)**

_____ implies a system can perform more than one task simultaneously on multi-core system

☒ Parallelism

☐ Responsiveness

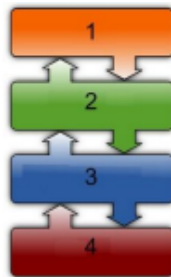
☐ Concurrency

☐ Scalability

Correct

38. Question**1 point(s)**

In the drawing below of the Computer System Components, select the correct choice:



☐ 1. Hardwar 2. OS 3. Applications 4. Users

☐ 1. OS 2. Hardware 3. Applications 4. Users

☐ 1. Users 2. OS 3. Applications 4. Hardware

☒ 1. Users 2. Applications 3. OS 4. Hardware

Incorrect

39. Question**1 point(s)**

In classful addressing, an IP address **123.23.156.4** belongs to _____ class format.

☐ D

☐ B

☒ A

☐ C

Correct

40. Question

1 point(s)

Which of the following can improve the performance of an AI agent?

☒ Learning

☐ All of the mentioned

☐ Observing

☐ Perceiving

Correct

41. Question

1 point(s)

Which of the following best defines a class?

☒ Blueprint of an object

☐ Scope of an object

☐ Instance of an object

☐ Parent of an object

Correct

42. Question

1 point(s)

Which one is the most likely advantage of UDP over TCP?

☒ Speed☐ Reliability☐ Acknowledgment☐ Sequenced

Correct

43. Question

1 point(s)

Which of the following syntax used to create an object of Class in Java?

☒ `Class_name object_name() = new Class_name()`☐ `Class_name object_name = new Class_name;`☐ `Class_name object_name = new Class_name();`☐ `Class_name object_name = new() Class_name();`

Incorrect

44. Question

1 point(s)

In a circular queue the value of rear (r) will be

☐ $r = (r+1) \% [QUEUE_SIZE - 1]$ ☐ $r = (r+1) \% QUEUE_SIZE$ ☐ $r = r+1$ ☒ $r = (r-1) \% QUEUE_SIZE$

Incorrect

45. Question

1 point(s)

_____ is the size difference in memory when we divide memory to fixed partitions and the allocated memory may be slightly larger than requested memory.

- ☐ Paging
- ☐ External Fragmentation
- ☒ Compaction
- ☐ Internal Fragmentation

Correct

46. Question

1 point(s)

In (student_id, name, address(street, city, state, zip-code)), address is

- ☐ a derived attribute.
- ☐ a multivalued attribute.
- ☒ a composite attribute.
- ☐ a relational attribute

Correct

47. Question

1 point(s)

Which of the following is not correct?

- ☒ SQL select operation may be used for data retrieval as well as for data modification.
- ☐ SQL may be used for data definition as well as data retrieval
- ☐ SQL may be used for defining base tables as well as view tables

- ☐ SQL data definitions may be used for defining primary keys as well as foreign keys

Correct

48. Question

1 point(s)

Which java variable declaration is **incorrect**?

- ☒ int a=3.5;

- ☐ float a=3,b=6.5;

- ☐ All

- ☐ int a,b,c;

Correct

49. Question

1 point(s)

Which of these media gives the highest bit rates over the longest distances?

- ☐ Unshielded twisted pair cable

- ☒ Optical fiber cable

- ☐ Coaxial cable

- ☐ Shielded Twisted pair cable

Correct

50. Question

1 point(s)

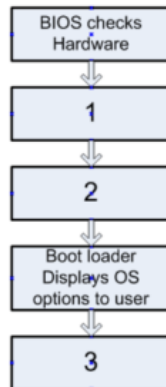
What makes java platform independent?

- ☐ simple

- ☐ Class

☐ Object☒ Bytecode**Correct****51. Question****1 point(s)**

In the drawing of the Computer Startup Operation, select the correct choice:

☐ 1. BIOS Loads boot loader 2. boot loader loads MBR 3. MBR Loads OS☐ 1. BIOS Loads MBR 2. MBR Loads boot loader 3. Boot loader Loads OS☐ 1. BIOS Loads OS 2. OS Loads boot loader 3. boot loader loads MBR☒ 1. MBR Loads BIOS 2. BIOS Loads boot loader 3. Boot loader Loads OS**Incorrect****52. Question****1 point(s)**

_____ is when the system attempts to keep processes on the same processor but makes no guarantees.

☐ Hard affinity☐ Push migration☐ Pull migration

☒ Soft affinity

Correct

53. Question

1 point(s)

In SQL the statement **select * from R, S** is equivalent to

☐ Select * from R inner join S

☐ Select * from R natural join S

☒ Select * from R cross join S

☐ Select * from R union join S

Correct

54. Question

1 point(s)

How many objects can be declared in a specific class in a single program?

☐ 1

☒ As many as you want

☐ 2

☐ 5

Correct

55. Question

1 point(s)

What is data integrity?

☐ It is the data contained in database that is non redundant.

☒ It is the data contained in database that is accurate and consistent.

☐ It is the data contained in database that is secured.

☐ It is the data contained in database that is shared.

Correct

56. Question**1 point(s)**

From the following alternatives which programming language is highly portable?

☐ C++

☐ Assembly language

☒ Java

☐ C

Correct

57. Question**1 point(s)**

DDL is typically used during which phases of the development process?

☒ Physical design

☐ Logical Design

☐ Implementation

☐ Conceptual Design

Correct

58. Question**1 point(s)**

What is the function of an Artificial Intelligence “Agent”?

☒ Mapping of precept sequence to an action

☐ Work without the direct interference of the people

☐ Mapping of environment sequence to an action

☐ Mapping of goal sequence to an action

Correct

59. Question**1 point(s)**

An operating system is a program that:

☒ It provides an environment within which computer hardware can do work

☐ manages the computer hardware and provides a basis for application programs

☐ manages both application programs and computer hardware

☐ manages the application programs and provides a basis for computer hardware

Correct

60. Question**1 point(s)**

In `(student_id, name, address(street, city, state, zip-code))`, address is

☒ a composite attribute.

☐ a relational attribute

☐ a multivalued attribute.

☐ a derived attribute.

Correct

61. Question**1 point(s)**

What is a Firewall in Computer Network?

- ☐ The physical boundary of Network
- ☐ An operating System of Computer Network
- ☐ A web browsing Software
- ☒ A system designed to prevent unauthorized access

Correct

62. Question**1 point(s)**

What is Artificial Intelligence?

- ☐ Artificial Intelligence is a field that aims to mine the data
- ☐ Artificial Intelligence is a field that aims to improve the security
- ☒ Artificial Intelligence is a field that aims to develop intelligent machines
- ☐ Artificial Intelligence is a field that aims to make humans more intelligent

Correct

63. Question**1 point(s)**

A parentheses checker program would be best implemented using _____

- ☒ Stack
- ☐ Any of the above
- ☐ Queue
- ☐ List

Correct

64. Question**1 point(s)**

An entity set that does not have sufficient attributes to form a primary key is termed a_____

☐ Variable set

☒ Weak entity set

☐ Variant set

☐ Strong entity set

Correct

65. Question

1 point(s)

If router J is on the optimal path from router I to router K, then the optimal path from J to K also falls along the same route is known as,

☐ Network principle

☒ Optimality principle

☐ Sink tree principle

☐ Routing principle

Correct

66. Question

1 point(s)

It is an abstraction through which relationships are treated as higher level entities

☐ Inheritance

☒ Aggregation

☐ Specialization

☐ Generalization

Correct

67. Question

1 point(s)

Which of the following is an external sorting?

☐ Bubble sort☒ Insertion sort☐ Tree sort☐ Merge sort

Incorrect

68. Question

1 point(s)

Caching is:

☐ copying information from slower storage system temporarily☐ copying information from faster storage system permanently☒ copying information into faster storage system temporarily☐ copying information into faster storage system permanently

Correct

69. Question

1 point(s)

Which point below is not a way for handling Deadlocks?

☐ Ignore☐ Detection and Recovery☐ Prevention☒ Transfer

Correct

70. Question

1 point(s)

The part of a database management system which ensures that the data remains in a consistent state is

☒ transaction manager☐ file manager☐ authorization and integrity manager☐ buffer manager

Correct

71. Question

1 point(s)

In Priority Scheduling, internal priorities are assigned by

☐ Users☒ OS☐ System Programs☐ CPU

Correct

72. Question

1 point(s)

Which of the following constitutes a basic set of operations for manipulating relational

☐ SQL☒ Relational algebra☐ Relational calculus☐ Predicate calculus

Correct

73. Question**1 point(s)**

The worst case occurs in linear search algorithm when_____

☒ Item is the last element in the array or item is not there at all

☐ Item is the last element in the array

☐ Item is not in the array at all

☐ Item is somewhere in the middle of the array

Correct

74. Question**1 point(s)**

Match the following

- | | |
|---------------------|------------------------------------------------------------------------|
| a. completeness | i) how long does it take to find a solution |
| b. Time complexity | ii) how much memory need to perform the search |
| c. Space complexity | iii) is the strategy guaranteed to find the solution when there in one |

☐ a-i, b-iii ,c-ii

☒ a-iii, b-i ,c-ii

☐ a-i, b-ii ,c-iii

☐ a-iii, b-ii ,c-i

Correct

75. Question**1 point(s)**

Which of the following is required to communicate between two computers?

☒ all of above including access to transmission medium

☐ protocol☐ communications software☐ communication hardware**Correct****76. Question****1 point(s)**

Minimum number of fields in each node of a doubly linked list is___

☐ 0☐ 4☒ 3☐ 2**Correct****77. Question****1 point(s)**

Repeater function in the layer.

☐ Network☐ Data link☐ None of these☒ Physical**Correct****78. Question****1 point(s)**

System calls are:

☒ None of the above☐ Programming interface☐ Hardware interrupts☐ System Programs

Correct

79. Question

1 point(s)

Which of the given language is not commonly used for AI?

☒ Perl☐ Python☐ LISP☐ PROLOG

Correct

80. Question

1 point(s)

The situation when in a linked list START=NULL is

☐ Overflow☐ Saturated☒ Underflow☐ Houseful

Correct

81. Question

1 point(s)

What is an AI 'agent'?

☒ All of the mentioned

☐ Perceives its environment through sensors and acting upon that environment through actuators

☐ An embedded program controlling line following robot

☐ Takes input from the surroundings and uses its intelligence and performs the desired operations

Correct

82. Question

1 point(s)

Which of the following is true for network structure?

☐ It will be the dominant database of the future.

☐ It is conceptually simple.

☒ It allows many to many relationship.

☐ It is a physical representation of the data.

Incorrect

83. Question

1 point(s)

Source routing bridges in the same LANs must have bridge Number.

☐ Destination

☐ Source

☐ Same

☒ Different

Correct

84. Question

1 point(s)

_____ is a more generalized single source shortest path algorithm which can find the shortest path in a graph with negative weighted edges.

☒ Bellman ford algorithm☐ Kruskal's algorithm☐ Prim's algorithm☐ Dijkstra algorithm

Correct

85. Question

1 point(s)

The relationship between DEPARTMENT and EMPLOYEE is a

☐ many -to- many relationship☒ one-to-many relationship☐ one-to-one relationship☐ many -to-one relationship

Correct

86. Question

1 point(s)

A repeater takes a weakened or corrupted signal and it.

☐ Reroute☒ Regenerates☐ Resample☐ Amplifies

Correct

87. Question**1 point(s)**

Does index take space in the disk?

- ☒ yes, indexes are stored on disk
- ☐ it stores memory as and when required
- ☐ indexes are never stored on disk
- ☐ indexes take no space

Correct

88. Question**1 point(s)**

Which of the following remote access programs is the most secure:

- ☒ ssh
- ☐ rlogin
- ☐ ftp
- ☐ telnet

Correct

89. Question**1 point(s)**

In select student_Id, score from the grade_report table where course_code = 'CoSc2041', what is course_code = ' CoSc2041'?

- ☒ A condition
- ☐ A list of the relation names
- ☐ A list of attribute names

☐ None of the above

Correct

90. Question**1 point(s)**

In crossover cable which wires are crossed in side A and side B

☒ 1236

☐ 1234

☐ 1357

☐ 2468

Correct

91. Question**1 point(s)**

Which feature of Object-Oriented Programming indicates code reusability?

☒ Inheritance

☐ Polymorphism

☐ Abstraction

☐ Encapsulation

Correct

92. Question**1 point(s)**

Which statement is correct about do while statement?

☐ In do while no condition is required

☐ Do while is used to select program statements.

☒ The condition is checked after the statement.

☐ The statement is checked before the statement.

Correct

93. Question

1 point(s)

First order logic Statements contains_____.

☐ None of the above

☐ Subject and an Object

☐ Predicate and Preposition

☒ Predicate and Subject

Correct

94. Question

1 point(s)

The correct order of data decapsulation is

☐ Data→segment→packet→frame→bit

☐ Frame→bit→data→segment→packet

☒ Bit→frame→packet→segment→data

☐ segment→packet→data→bits→frame

Correct

95. Question

1 point(s)

The method of network routing where every possible path between transmitting and receiving DTE is used is called

☒ Packet Flooding

☐ Message Switching☐ Random Routing☐ Directory Routing**Correct****96. Question****1 point(s)**

Adaptive routing algorithms get their information from

☐ only from local environment☐ only from adjacent routers☒ from locally, adjacent, external routers☐ only from external routers**Correct****97. Question****1 point(s)**

In order traversing a tree resulted E A C K F H D B G; the preorder traversal would return

☒ FAEKCDHGB☐ FEAKDCHBG☐ EAFKHDCBG☐ FAEKDCBHG**Correct****98. Question****1 point(s)**

If one variable is declared by using private access modifier, this variable can be accessed in:

☐ Sub-class☐ The same packages☒ The same class☐ Different packages

Correct

99. Question

1 point(s)

The default subnet mask of class **100.10.2.1** IP is

☐ 255.255.255.0☐ 255.255.255.255☐ 255.255.0.0☒ 255.0.0.0

Correct

100. Question

1 point(s)

A binary tree in which all its levels except the last, have maximum numbers of nodes, and all the nodes in the last level have only one child it will be its left child. Name the tree.

☐ Threaded tree☒ Complete binary tree☐ M-way search tree☐ Full binary tree

Correct

101. Question

1 point(s)

In scheduling, the ready queue is maintained as a circular queue

☐ RR☒ Priority Scheduling☐ SJF☐ FCFS**Incorrect**