

National Testing Agency

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Components And Applications Of Internet Of Things

Group Number :	1
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Components And Applications Of Internet Of Things-1

Section Id :	603489181
Section Number :	1
Section type :	Online

Mandatory or Optional :	Mandatory
Number of Questions :	75
Number of Questions to be attempted :	75
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	603489338
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 6034899169 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In LEACH protocol, the optimal number of clusters is function of

- 1. Number of nodes and Size of network
- 2. Distance to Base station
- 3. Energy consumed by power amplifier of transmitter
- 4. All of the above

Options :

60348934615. 1

60348934616. 2

60348934617. 3

60348934618. 4

Question Number : 2 Question Id : 6034899170 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If the received signal strength at 5 different locations are -40 dBm, -50 dBm, -30 dBm, -70 dBm and -50 dBm. The zero mean features are

1. 8 dBm, 2 dBm, 18 dBm, 22 dBm, 2 dBm
2. -8 dBm, -2 dBm, -18 dBm, -22 dBm, -2 dBm
3. -8 dBm, 2 dBm, 18 dBm, 22 dBm, -2 dBm
4. None of the above

Options :

60348934619. 1

60348934620. 2

60348934621. 3

60348934622. 4

Question Number : 3 Question Id : 6034899171 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Probable definition of IoT is

1. Digital connectivity among various devices to communicate
2. Tandom work, work instructions given among devices
3. Interchange of data is huge as it involves devices, machines, people, things, etc
4. All of the above

Options :

60348934623. 1

60348934624. 2

60348934625. 3

60348934626. 4

Question Number : 4 Question Id : 6034899172 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In regression, the equation that describes how the response variable (y) is related to the explanatory variable (x) is:

1. the correlation model
2. the regression model
3. used to compute the correlation coefficient
4. None of these alternatives is correct

Options :

60348934627. 1

60348934628. 2

60348934629. 3

60348934630. 4

Question Number : 5 Question Id : 6034899173 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What industry association develops, publishes, and maintains the standards for wireless networks?

1. IEEE
2. ISM
3. UNII
4. FCC

Options :

60348934631. 1

60348934632. 2

60348934633. 3

60348934634. 4

Question Number : 6 Question Id : 6034899174 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

LEACH protocol is

1. Low-energy adaptive communication hierarchy
2. Low-efficiency adaptive clustering hierarchy
3. Low-energy adaptive clustering hierarchy
4. None of the above

Options :

60348934635. 1

60348934636. 2

60348934637. 3

60348934638. 4

Question Number : 7 Question Id : 6034899175 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is BSSID?

1. MAC of the Access Point
2. MAC of the Client/Station
3. MAC of the Gateway
4. None of the above

Options :

60348934639. 1

60348934640. 2

60348934641. 3

60348934642. 4

Question Number : 8 Question Id : 6034899176 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

When data is decoded by a processor, it is

1. Initialized
2. Decoded
3. Deleted
4. Executed

Options :

60348934643. 1

60348934644. 2

60348934645. 3

60348934646. 4

Question Number : 9 Question Id : 6034899177 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Quantization is a process of mapping a _____ range of amplitude of a signal into a finite set of ____ amplitudes.

1. Continuous, discrete
2. Discrete, continuous
3. Discrete, discrete
4. Continuous, continuous

Options :

60348934647. 1

60348934648. 2

60348934649. 3

60348934650. 4

Question Number : 10 Question Id : 6034899178 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

IoT system with 250mAh capacity, 3V, the total energy is

1. 0.75kJ
2. 2.7kJ
3. 27kJ
4. 7.5kJ

Options :

60348934651. 1

60348934652. 2

60348934653. 3

60348934654. 4

Question Number : 11 Question Id : 6034899179 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is required by K-means clustering?

1. Defined distance metric
2. Number of clusters
3. Initial guess as to cluster centroids
4. All of the above

Options :

60348934655. 1

60348934656. 2

60348934657. 3

60348934658. 4

Question Number : 12 Question Id : 6034899180 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is correct?

1. We extract feature in data level fusion
2. We extract feature and then fuse it in data level fusion
3. We fuse data and then extract feature in feature level fusion
4. We do not need data association in fusion

Options :

60348934659. 1

60348934660. 2

60348934661. 3

60348934662. 4

Question Number : 13 Question Id : 6034899181 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

How many instructions pipelining is used in ARM7EJ-S?

1. 3-Stage
2. 4-Stage
3. 5-Stage
4. 7-Stage

Options :

60348934663. 1

60348934664. 2

60348934665. 3

60348934666. 4

Question Number : 14 Question Id : 6034899182 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which software is used to control products and systems in IOT for the consumer and industrial markets?

1. System software
2. Artificial intelligence software
3. Embedded software
4. Engineering and scientific software

Options :

60348934667. 1

60348934668. 2

60348934669. 3

60348934670. 4

Question Number : 15 Question Id : 6034899183 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Distortion produced by quantization is directly proportion to _____ and inversely proportional to _____

1. Number of levels, step size
2. Amplitude of the signal, step size
3. Square of step size, number of levels
4. Amplitude of the signal, number of levels

Options :

60348934671. 1

60348934672. 2

60348934673. 3

60348934674. 4

Question Number : 16 Question Id : 6034899184 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

_____ is a delayed decision coding technique.

1. Adaptive quantization
2. Uniform quantization
3. Vector quantization
4. Non-uniform quantization

Options :

60348934675. 1

60348934676. 2

60348934677. 3

60348934678. 4

Question Number : 17 Question Id : 6034899185 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

$P(x=T_1|Y_0^1) = 0.5$, $P(x=T_1|Y_0^2) = 0.6$, $P(x=T_1|Y_0^1 Y_0^2) = 0.6$, $P(x=T_1|Y_1^1) = 0.7$, $P(x=T_1|Y_1^2) = 0.8$.

What is unnormalized $P(x=T_1|Y_1^1 Y_1^2)$?

1. 0.82
2. 0.92
3. 1.12
4. None of the above

Options :

60348934679. 1

60348934680. 2

60348934681. 3

60348934682. 4

Question Number : 18 Question Id : 6034899186 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The instruction, MLA R0,R1,R2,R3 in ARM ISA performs _____

1. $R0 \leftarrow -[R1] + [R2] + [R3]$.
2. $R3 \leftarrow -[R0] + [R1] + [R2]$.
3. $R0 \leftarrow -[R1] * [R2] + [R3]$.
4. $R3 \leftarrow -[R0] * [R1] + [R2]$.

Options :

60348934683. 1

60348934684. 2

60348934685. 3

60348934686. 4

Question Number : 19 Question Id : 6034899187 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

How many registers are there in ARM7?

1. 35 registers (28 GPR and 7 SPR)
2. 37 registers (28 GPR and 9 SPR)
3. 37 registers (31 GPR and 6 SPR)
4. 35 registers (30 GPR and 5 SPR)

Options :

60348934687. 1

60348934688. 2

60348934689. 3

60348934690. 4

Question Number : 20 Question Id : 6034899188 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In Demspter-Shafer Method, the order of measurements

1. Does matter
2. Does not matter
3. Partially matters
4. None of the above

Options :

60348934691. 1

60348934692. 2

60348934693. 3

60348934694. 4

Question Number : 21 Question Id : 6034899189 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Special type of ROM in microcontroller which can be reprogrammed many times, typically for storing program code, is

1. RAM
2. SRAM
3. Flash memory
4. Cache memory

Options :

60348934695. 1

60348934696. 2

60348934697. 3

60348934698. 4

Question Number : 22 Question Id : 6034899190 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If $P(\text{data}|\text{sensor1}) = 0.6$, $P(\text{data}) = 0.5$ and $P(\text{sensor1}) = 0.5$, what is the probability of $P(\text{sensor1}|\text{data})$?

- 1. 0.4
- 2. 0.5
- 3. 0.6
- 4. None of the above

Options :

60348934699. 1

60348934700. 2

60348934701. 3

60348934702. 4

Question Number : 23 Question Id : 6034899191 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is the full form of AMI?

- 1. Advanced Master Internet
- 2. Advanced Metering Infrastructure
- 3. Ahead Metering Infrastructure
- 4. None of the above

Options :

60348934703. 1

60348934704. 2

60348934705. 3

60348934706. 4

Question Number : 24 Question Id : 6034899192 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following RF band is allocated to the Industrial, Scientific and Medical industry?

1. 2.4 GHz to 2.4835 GHz
2. 4.9 GHz to 5.825 GHz
3. 824 MHz to 849 MHz
4. 174 MHz to 220 MHz

Options :

60348934707. 1

60348934708. 2

60348934709. 3

60348934710. 4

Question Number : 25 Question Id : 6034899193 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Natural Language Processing (NLP) is field of

1. Computer Science
2. Artificial Intelligence
3. Linguistics
4. All of the above

Options :

60348934711. 1

60348934712. 2

60348934713. 3

60348934714. 4

Question Number : 26 Question Id : 6034899194 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Suitable available communication technologies for HAN applications are

1. PLC, ZigBee and Mesh network
2. WiFi mesh network, Cellular
3. Digital Subscriber Line (DSL) and WiMAX
4. All of the above

Options :

60348934715. 1

60348934716. 2

60348934717. 3

60348934718. 4

Question Number : 27 Question Id : 6034899195 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Smart distribution system management comes under

1. Home-area network
2. Wide-area network
3. Neighbourhood area network
4. All of the above

Options :

60348934719. 1

60348934720. 2

60348934721. 3

60348934722. 4

Question Number : 28 Question Id : 6034899196 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If the standard deviation of localization error for Localization Methods A and B are 1 m and 1.5 m, respectively, then which method is better?

1. A
2. B
3. Both are same
4. None of the above

Options :

60348934723. 1

60348934724. 2

60348934725. 3

60348934726. 4

Question Number : 29 Question Id : 6034899197 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The protocol data unit for the application layer in the Internet stack is

1. Segment
2. Datagram
3. Message
4. Frame

Options :

60348934727. 1

60348934728. 2

60348934729. 3

60348934730. 4

Question Number : 30 Question Id : 6034899198 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Silhouette index is

1. A measurement of cohesion
2. A measurement of separation
3. A combination of cohesion and separation
4. None of the above

Options :

60348934731. 1

60348934732. 2

60348934733. 3

60348934734. 4

Question Number : 31 Question Id : 6034899199 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following is a valid type for cluster validity index?

1. Internal index
2. External index
3. Relative index
4. All of the above

Options :

60348934735. 1

60348934736. 2

60348934737. 3

60348934738. 4

Question Number : 32 Question Id : 6034899200 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is the maximum number of edges in an acyclic undirected graph with n vertices?

- 1. $n-1$
- 2. n
- 3. $n+1$
- 4. $2n-1$

Options :

60348934739. 1

60348934740. 2

60348934741. 3

60348934742. 4

Question Number : 33 Question Id : 6034899201 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A wireless extension to a wired network can eliminate the need for new _____ to be installed.

- 1. Cables
- 2. Access Point
- 3. Router
- 4. Bridges

Options :

60348934743. 1

60348934744. 2

60348934745. 3

60348934746. 4

Question Number : 34 Question Id : 6034899202 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In microcontrollers, low power timer for counting seconds and keeping track of current time is termed as

1. PLL
2. RTC
3. GPIO
4. SPI

Options :

60348934747. 1

60348934748. 2

60348934749. 3

60348934750. 4

Question Number : 35 Question Id : 6034899203 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Power Set will contain how many elements, where n is the number of elements in the possible set?

1. 2^{n-1}
2. $2^{n/2}$
3. 2^n
4. None of the above

Options :

60348934751. 1

60348934752. 2

60348934753. 3

60348934754. 4

Question Number : 36 Question Id : 6034899204 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is half duplex?

1. Device can either transmit or receive at a given time but not both
2. Device can transmit and receive at a given time simultaneously
3. Device cannot transmit but receive
4. Device can transmit but not receive

Options :

60348934755. 1

60348934756. 2

60348934757. 3

60348934758. 4

Question Number : 37 Question Id : 6034899205 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Nanogrid control unit consists of

1. Closed loop voltage control
2. Reactive power control
3. Frequency control
4. None of the above

Options :

60348934759. 1

60348934760. 2

60348934761. 3

60348934762. 4

Question Number : 38 Question Id : 6034899206 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In fusion, we combine homogeneous sensor data. The statement is

1. False
2. Correct
3. Partially correct
4. None of the above

Options :

60348934763. 1

60348934764. 2

60348934765. 3

60348934766. 4

Question Number : 39 Question Id : 6034899207 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Plausibility in K: It is the ___ of masses of the set that intersects with K.

1. Sum
2. Product
3. Difference
4. None of the above

Options :

60348934767. 1

60348934768. 2

60348934769. 3

60348934770. 4

Question Number : 40 Question Id : 6034899208 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

To sniff a wireless adaptor, we need to set the interface in which mode?

1. Promiscuous mode
2. Hacking mode
3. Brute force mode
4. None of the above

Options :

60348934771. 1

60348934772. 2

60348934773. 3

60348934774. 4

Question Number : 41 Question Id : 6034899209 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

An example of a linear classifier

1. Decision tree
2. Hidden Markov model
3. Adaboost
4. None of the above

Options :

60348934775. 1

60348934776. 2

60348934777. 3

60348934778. 4

Question Number : 42 Question Id : 6034899210 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following parameter specifies the number of training samples which are seen before updating the weights?

1. Loss
2. Epochs
3. Batch size
4. Verbose

Options :

60348934779. 1

60348934780. 2

60348934781. 3

60348934782. 4

Question Number : 43 Question Id : 6034899211 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Can we use multiple observations from the sensor for decision fusion?

1. Yes
2. No
3. May be
4. None of the above

Options :

60348934783. 1

60348934784. 2

60348934785. 3

60348934786. 4

Question Number : 44 Question Id : 6034899212 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Power loss in free space is given by

1. Squared distance
2. Cubic of distance
3. Fourth power of distance
4. None of the above

Options :

60348934787. 1

60348934788. 2

60348934789. 3

60348934790. 4

Question Number : 45 Question Id : 6034899213 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Fifth Generation of computers is defined as

1. Present and Beyond
2. Microprocessors generation
3. Transistors
4. None of the above

Options :

60348934791. 1

60348934792. 2

60348934793. 3

60348934794. 4

Question Number : 46 Question Id : 6034899214 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The interface faces of Protocols are

1. Service interface and peer-to-peer interface
2. Network architecture interface
3. Service architecture
4. None of the above

Options :

60348934795. 1

60348934796. 2

60348934797. 3

60348934798. 4

Question Number : 47 Question Id : 6034899215 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In Demster-Schafer theory, as we add more information, uncertainty interval increases.
This statement is

1. True
2. False
3. Cannot be said
4. None of the above

Options :

60348934799. 1

60348934800. 2

60348934801. 3

60348934802. 4

Question Number : 48 Question Id : 6034899216 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Bell's Law states

1. A new computer class emerges roughly every year
2. A new computer class emerges roughly every 2 years
3. A new computer class emerges roughly every decade
4. None of the above

Options :

60348934803. 1

60348934804. 2

60348934805. 3

60348934806. 4

Question Number : 49 Question Id : 6034899217 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In vector quantization, the decision boundary is given by

1. Perpendicular line
2. Bisector
3. Perpendicular bisector
4. None of the above

Options :

60348934807. 1

60348934808. 2

60348934809. 3

60348934810. 4

Question Number : 50 Question Id : 6034899218 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If X is the random variable and a and b are the constants, the expectation of $aX + b$ is

1. $aE(X)$
2. $aE(X) + b$
3. $a^2 E(X) + b$
4. None of the above

Options :

60348934811. 1

60348934812. 2

60348934813. 3

60348934814. 4

Sub-Section Number : 2

Sub-Section Id : 603489339

Question Shuffling Allowed : Yes

Question Number : 51 Question Id : 6034899219 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Which one of the FCC's RF bands operates in the frequency range of 2.4 GHz to 2.4835 GHz?

1. ISM
2. RFID
3. SOHO
4. UNII

Options :

60348934815. 1

60348934816. 2

60348934817. 3

60348934818. 4

Question Number : 52 Question Id : 6034899220 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

The probability of false alarm should be

1. Low
2. High
3. Moderate
4. None of the above

Options :

60348934819. 1

60348934820. 2

60348934821. 3

60348934822. 4

Question Number : 53 Question Id : 6034899221 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

BSS stands for

1. Basic Service Set
2. Basic Service System
3. Bluetooth Service Set
4. Bluetooth Service System

Options :

60348934823. 1

60348934824. 2

60348934825. 3

60348934826. 4

Question Number : 54 Question Id : 6034899222 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

The set of recursive equations to find the optimal gain at each time step is called

1. Adaptive least square equations
2. Riccati equations
3. Gauss equations
4. Kalman equations

Options :

60348934827. 1

60348934828. 2

60348934829. 3

60348934830. 4

Question Number : 55 Question Id : 6034899223 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

In Bayesian Method, is it possible to combine data from four sensors?

1. Yes
2. No
3. May be
4. None of the above

Options :

60348934831. 1

60348934832. 2

60348934833. 3

60348934834. 4

Question Number : 56 Question Id : 6034899224 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

The sensor node in the smart agriculture kit to integrate multiple sensors is called

1. Wardmote
2. Waspote
3. Senonode
4. Meshlium

Options :

60348934835. 1

60348934836. 2

60348934837. 3

60348934838. 4

Question Number : 57 Question Id : 6034899225 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

The distributed scheme of decision fusion is preferred over a centralized scheme in IoT networks. This statement is

1. False
2. Partially correct
3. Correct
4. None of the above

Options :

60348934839. 1

60348934840. 2

60348934841. 3

60348934842. 4

Question Number : 58 Question Id : 6034899226 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

The Galvanic skin response sensor records the

1. Intensity of human emotional state
2. Health condition of muscles
3. Electrical signals from the heart
4. Breathing rate

Options :

60348934843. 1

60348934844. 2

60348934845. 3

60348934846. 4

Question Number : 59 Question Id : 6034899227 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

In wireless ad-hoc network

1. Access point is not required
2. Access point is must
3. Nodes are not required
4. None of the above

Options :

60348934847. 1

60348934848. 2

60348934849. 3

60348934850. 4

Question Number : 60 Question Id : 6034899228 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Which of the following is/are enabled by IoRT over conventional robots?

1. Communication between geographically separated humans and robots
2. Increased payload capacity
3. Reduced power consumption
4. Distributed localization and object recognition

Options :

60348934851. 1

60348934852. 2

60348934853. 3

60348934854. 4

Question Number : 61 Question Id : 6034899229 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

What is WPA?

1. Wi-fi Protected Access
2. Wired Protected Access
3. Wired Process Access
4. Wi-fi Process Access

Options :

60348934855. 1

60348934856. 2

60348934857. 3

60348934858. 4

Question Number : 62 Question Id : 6034899230 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Which one of the following is a standard metric to measure the performance of any machine learning algorithm?

1. Accuracy
2. F-measure
3. Precision
4. All of the above

Options :

60348934859. 1

60348934860. 2

60348934861. 3

60348934862. 4

Question Number : 63 Question Id : 6034899231 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

If $P(\text{data}|\text{sensor1}) = 0.9$, $P(\text{data}) = 0.3$ and $P(\text{sensor1}) = 0.3$, what is the probability of $P(\text{sensor1}|\text{data})$?

1. 0.7
2. 0.8
3. 0.9
4. None of the above

Options :

60348934863. 1

60348934864. 2

60348934865. 3

60348934866. 4

Question Number : 64 Question Id : 6034899232 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

In which of the following fields is machine learning used extensively?

1. Computational biology
2. Natural language processing
3. Computer vision
4. All of the above

Options :

60348934867. 1

60348934868. 2

60348934869. 3

60348934870. 4

Question Number : 65 Question Id : 6034899233 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

WSN operates at

1. 2.4 GHz
2. 5.8 GHz
3. 25 GHz
4. None of the above

Options :

60348934871. 1

60348934872. 2

60348934873. 3

60348934874. 4

Question Number : 66 Question Id : 6034899234 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Assume that there are four possible states (s_1 , s_2 , s_3 , and s_4) that a robot can occupy. What is the probability that the robot occupies the state s_1 ? Assume a uniform belief.

1. 1
2. 0
3. 0.25
4. Information is insufficient to determine the probability

Options :

60348934875. 1

60348934876. 2

60348934877. 3

60348934878. 4

Question Number : 67 Question Id : 6034899235 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

What is the strength of Single-linkage clustering?

1. It can handle non-elliptical shapes
2. Less susceptible to noise
3. Less susceptible to outliers
4. None of the above

Options :

60348934879. 1

60348934880. 2

60348934881. 3

60348934882. 4

Question Number : 68 Question Id : 6034899236 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Which of the following parameter specifies the number of times, a model sees the whole training data?

1. Loss
2. Epochs
3. Batch size
4. Verbose

Options :

60348934883. 1

60348934884. 2

60348934885. 3

60348934886. 4

Question Number : 69 Question Id : 6034899237 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

WSN is composed of

1. ZigBee coordinator
2. ZigBee router
3. ZigBee end device
4. All of the above

Options :

60348934887. 1

60348934888. 2

60348934889. 3

60348934890. 4

Question Number : 70 Question Id : 6034899238 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Which one of the following can be used as a non-linear classifier?

1. Support vector machine
2. K-means
3. Linear regression
4. None of the above

Options :

60348934891. 1

60348934892. 2

60348934893. 3

60348934894. 4

Question Number : 71 Question Id : 6034899239 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

What is the limitation of complete-linkage clustering?

1. Tries to break large clusters
2. Sensitive to noise
3. It can't handle non-elliptical shapes
4. Merges smaller clusters

Options :

60348934895. 1

60348934896. 2

60348934897. 3

60348934898. 4

Question Number : 72 Question Id : 6034899240 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

The traditional fingerprinting based method has x-complexity and y-localization accuracy. The x and y, respectively, are

1. Low and Low
2. Low and High
3. High and Low
4. High and High

Options :

60348934899. 1

60348934900. 2

60348934901. 3

60348934902. 4

Question Number : 73 Question Id : 6034899241 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

An ultrasonic sensor is

1. Active sensor
2. Passive sensor
3. Both
4. Neither active nor passive

Options :

60348934903. 1

60348934904. 2

60348934905. 3

60348934906. 4

Question Number : 74 Question Id : 6034899242 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

What does a charge controller do?

1. Regulates the charging and discharging of battery
2. Regulates only charging of battery
3. Regulates only discharging of battery
4. None of the above

Options :

60348934907. 1

60348934908. 2

60348934909. 3

60348934910. 4

Question Number : 75 Question Id : 6034899243 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Which of the following is true about K-means and K-medoid?

1. Both are sensitive to noise
2. K-means is sensitive to noise but K-medoid is not
3. K-medoid is sensitive to noise but K-means is not
4. Neither K-means nor K-medoid is sensitive to noise

Options :

60348934911. 1

60348934912. 2

60348934913. 3

60348934914. 4