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# **Question Bank (I scheme)**

Name of Subject: Emerging Trends in Computer Engineering and Information Technology Subject Code: 22618 Courses: CW6I Semester: VI

### MULTIPLE CHOICE QUESTIONS AND ANSWERS

## 1- Artificial Intelligence

- 1. Which of these schools was not among the early leaders in AI research?
  - A. Dartmouth University
  - B. Harvard University
  - C. Massachusetts Institute of Technology
  - D. Stanford University
  - E. None of the above

Ans: B

- 2. DARPA, the agency that has funded a great deal of American AI research, is part of the Department of:
  - A. Defense
  - B. Energy
  - C. Education
  - D. Justice
  - E. None of the above

Ans: A

- 3. The conference that launched the AI revolution in 1956 was held at:
  - A. Dartmouth
  - B. Harvard
  - C. New York
  - D. Stanford
  - E. None of the above

Ans: A

- 4. What is the term used for describing the judgmental or commonsense part of problem solving? A. Heuristic
  - B. Critical
  - C. Value based
  - D. Analytical
  - E. None of the above

Ans: A

- 5. What of the following is considered to be a pivotal event in the history of AI. A. 1949, Donald O, The organization of Behavior.
  - B. 1950, Computing Machinery and Intelligence.
  - C. 1956, Dartmouth University Conference Organized by John McCarthy.
  - D. 1961, Computer and Computer Sense.
  - E. None of the above

- 6. A certain Professor at the Stanford University coined the word 'artificial intelligence' in 1956 at a conference held at Dartmouth College. Can you name the Professor?
  - A. David Levy
  - B. John McCarthy
  - C. Joseph Weizenbaum
  - D. Hans Berliner
  - E. None of the above

Ans: B

- 7. The field that investigates the mechanics of human intelligence is:
  - A. History
  - B. cognitive science
  - C. psychology
  - D. sociology
  - E. None of the above

Ans: B

- 8. A.M. turing developed a technique for determining whether a computer could or could not demonstrate the artificial Intelligence,, Presently, this technique is called
  - A. Turing Test
  - B. Algorithm
  - C. Boolean Algebra
  - D. Logarithm
  - E. None of the above

Ans: A

- 9. The first AI programming language was called:
  - A. BASIC
  - B. FORTRAN
  - C. IPL
  - D. LISP 📁
  - E. None of the above

Ans:



- 10. What is Artificial intelligence?
- A. Putting your intelligence into Computer
- B. Programming with your own intelligence

- C. Making a Machine intelligent
- D. Putting more memory into Computer

- 11. Who is a father of AI?
- A. Alain Colmerauer
- B. John McCarthy
- C. Nicklaus Wirth
- D. Seymour Papert

Ans: B

- 12. Artificial Intelligence has its expansion in the following application.
- A. Planning and Scheduling
- B. Game Playing
- C. Robotics
- D. All of the above

Ans: D

- 13. The characteristics of the computer system capable of thinking, reasoning and learning is known is
- A. machine intelligence
- B. human intelligence
- C. artificial intelligence
- D. virtual intelligence

Ans: C

- 14. The first AI programming language was called:
- A. BASIC
- B. FORTRAN
- C. IPL
- D. LISP

Ans: C

- 15. The first widely used commercial form of Artificial Intelligence (Al) is being used in many popular products like microwave ovens, automobiles and plug in circuit boards for desktop PCs. What is name of AI?
- A. Boolean logic
- B. Human logic
- C. Fuzzy logic
- D. Functional logic

- 16. What is the term used for describing the judgmental or commonsense part of problem solving? A. Heuristic
- B. Critical

C. Think like human
D. None of above
Ans: C
23 Model should reflect how results were obtained.  A. Design model  B. Logic model  C. Computational model  D. None of above  Ans: C
24. Communication between man and machine is related with A. LISP B. ELIZA C. All of above D. None of above Ans: B
25. ELIZA created by A. John McCarthy B. Steve Russell C. Alain Colmerauer D. Joseph Weizenbaum Ans: D
26. The concept derived from level are propositional logic, tautology, predicate calculus, model, temporal logic.  A. Cognition level  B. Logic level  C. Functional level  D. All of above  Ans: B
27. PROLOG is an AI programming language which solves problems with a form of symbolic logic known as  A. Propositional logic  B. Tautology  C. Predicate calculus  D. Temporal logic  Ans: C
28. The level contains constituents at the third level which are knowledge based system, heuristic search, automatic theorem proving, multi-agent system.  A. Cognition level  B. Gross level

C. Functional level D. All of above
Ans: B
<ul><li>29. PROLOG, LISP, NLP are the language of</li><li>A. Artificial Intelligence</li><li>B. Machine Learning</li></ul>
C. Internet of Things D. Deep Learning
Ans: A
<ul><li>30 is used for AI because it supports the implementation of software that compute with symbols very well.</li><li>A. LISP</li><li>B. ELIZA</li></ul>
C. PROLOG D. NLP
Ans: A
31. Symbols, symbolic expressions and computing with those is at the core of A. LISP B. ELIZA C. PROLOG D. NLP Ans: A
32 that deals with the interaction between computers and humans using the natural language A. LISP B. ELIZA C. PROLOG D. NLP Ans: D
33. The core components are constituents of AI are derived from A. Concept of logic B. Cognition C. Computation D. All of above Ans: D
<ul> <li>34. Aristotle's theory of syllogism and Descartes and kant's critic of pure reasoning made knowledge on</li> <li>A. Logic</li> <li>B. Computation logic</li> <li>C. Cognition logic</li> <li>D. All of above</li> </ul>

35. Charles Babbage and Boole who demonstrate the power of  A. Logic  B. Computation logic  C. Cognition logic  D. All of above  Ans: B
36. In 1960s, pushed the logical formalism to integrate reasoning with knowledge.  A. Marvin Minsky B. Alain Colmerauer C. John McCarthy D. None of above  Ans: A
37. Sensing organs as input, mechanical movement organs as output and central nervous system (CNS) in brain as control and computing devices is known as of human being A. Information Control Paradigm B. Information Processing Paradigm C. Information Processing Control D. None of above Ans: B
38 model were developed and incorporated in machines which mimicked the functionalities of human origin.  A. Functional model  B. Neural model  C. Computational model  D. None of above  Ans: C
39. Chomsky's linguistic computational theory generated a model for syntactic analysis through A. Regular Grammar B. Regular Expression C. Regular Word D. None of these Ans: A
40. Human to Machine is and Machine to Machine is  A. Process, Process  B. Process, Program  C. Program, Hardware  D. Program, Program

Ans: A

41. Weak AI is also known as
A. Narrow AI
B. General AI
C. Neural AI
D. None of above
Ans: A
Alicable to perform dedicated took
42 AI is able to perform dedicated task.  A. Narrow AI
B. General AI
C. Neural AI
D. None of above
Ans: A
43. Narrow AI is performs multiple task at a time.
A. True
B. False
Ans: B
44. Weak AI is
A. The embodiment of human intellectual capabilities within a computer.
B. A set of computer programs that produce output that would be considered to reflect
intelligence if it were generated by humans.
C. The study of mental faculties through the use of mental models implemented on a computer
D. All of the above
E. None of the above
Ans: C
45. Strong AI is
A. The embodiment of human intellectual capabilities within a computer.
B. A set of computer programs that produce output that would be considered to reflect intelligence if it were generated by humans.
C. The study of mental faculties through the use of mental models implemented on a computer D. All of the above
E. None of the above
Ans: A
46. Artificial intelligence is
A The embodiment of human intellectual capabilities within a computer

<ul> <li>B. A set of computer programs that produce output that would be considered to reflect intelligence if it were generated by humans.</li> <li>C. The study of mental faculties through the use of mental models implemented on a computer D. All of the above</li> <li>E. None of the above</li> <li>Ans: D</li> </ul>
47. Apple siri is a good example of AI.
A. Narrow AI
B. General AI
C. Neural AI
D. None of above
Ans: A
48. IBM Watson supercomputer comes under AI.
A. Narrow AI
B. General AI
C. Neural AI
D. None of above
Ans: A
49 AI is a type of intelligence which could perform any intellectual task with efficiency
like human. A. Narrow AI
B. General AI
C. Super AI
D. None of above
Ans: B
50. The idea behindAI to make such a system which could be smarter and think like
a human by its own.
A. Narrow AI
B. General AI
C. Super AI
D. None of above
Ans: B
51. The worldwide researchers are now focusing on developing machines with AI.
A. Narrow AI
B. General AI
C. Super AI
D. None of above
Ans: B
52. Playing chess, purchasing suggestions on e-commerce site, self-driving cars, speech recognition, and image recognition are the example of
Ans: A

A. Narrow AI
B. General AI
C. Super AI
D. None of above
53. Machine can perform any task better than human with cognitive properties is known as
AI.
A. Narrow AI
B. General AI
C. Super AI
D. None of above
Ans: C
54. Ability to think, puzzle, make judgments, plan, learn, communication by its own is known as
AI.
A. Narrow AI
B. General AI
C. Super AI
D. None of above
Ans: C
55 AI is hypothetical concept of AI.
A. Narrow AI
B. General AI
C. Super AI D. None of above
Ans: C
56. Which AI system not store memories or past experiences for future actions.
A. Reactive machine
B. Limited memory
C. Theory of mind
D. None of above
Ans: A
57. Which machines only focus on current scenarios and react on it as per as possible best
action.
A. Reactive machine
B. Limited memory
C. Theory of mind
D. None of above
Ans: A
58 IRM's deen blue system is evample of
58. IBM's deep blue system is example of  A. Reactive machine
B. Limited memory
Ans: A

C. Theory of mind D. None of above Ans: A
Alls. A
59. Google Alpha Go is example of
A. Reactive machine
B. Limited memory
C. Theory of mind
D. None of above
60. Which can stored next averaginass or some data for short naried time
60. Which can stores past experiences or some data for short period time.
A. Reactive machine
B. Limited memory C. Theory of mind
D. None of above
Ans: B
Alls: D
61. Self-driving car is example of
A. Reactive machine
B. Limited memory
C. Theory of mind
D. None of above
Ans: B [Car stores recent speed of nearby cars, distance of others car, speed limit, other
information to navigate the road]
62. Which AI should understand the human emotions, people, and beliefs and be able to interact
socially like humans. A. Reactive machine
B. Limited memory
C. Theory of mind
D. None of above
Ans: C
63. Which machines will be smarter than human mind?
A. Reactive machine
B. Limited memory
C. Theory of mind
D. Self-Awareness
Ans: D
64machines will have their own consciousness and sentiments
A. Reactive machine
B. Theory of mind
C. Self-Awareness
D. Both B & C

- 65. Which is not the commonly used programming language for AI?
- A. PROLOG
- B. LISP
- C. Perl
- D. Java script

- 66. What is Machine learning?
- A. The autonomous acquisition of knowledge through the use of computer programs
- B. The autonomous acquisition of knowledge through the use of manual programs
- C. The selective acquisition of knowledge through the use of computer programs
- D. The selective acquisition of knowledge through the use of manual programs

is a branch of science that deals with programing the systems in such a way
that they automatically learn and improve with experience
A. Machine Learning
B. Deep Learning
C. Neural Networks
D. None of these
Ans: A
68. Classifying email as a spam, labeling webpages based on their content, voice recognition are
the example of A. Supervised learning
B. Unsupervised learning
C. Machine learning
D. Deep learning
Ans: A
13110- 13
69. K-means, self-organizing maps, hierarchical clustering are the example of
A. Supervised learning
B. Unsupervised learning
C. Machine learning
D. Deep learning
Ans: B
70. Deep learning is a subfield of machine learning values concerned electibles are inspired by
70. Deep learning is a subfield of machine learning where concerned algorithms are inspired by
the structured and function of the brain called
A. Machine learning
B. Artificial neural networks
C. Deep learning
D. Robotics
Ans: B
71. Machine learning invent by
A. John McCarthy
B. Nicklaus Wirth
C. Joseph Weizenbaum
D. Arthur Samuel
Ans: D
Chapter-2 Internet of Things
1. Embedded systems are
A. General purpose
B. Special purpose
Ans: B
2. Embedded system is

- A. An electronic system
- B. A pure mechanical system
- C. An electro-mechanical system
- D. (A) or (C)

Ans: D

- 3. Which of the following is not true about embedded systems?
- A. Built around specialized hardware
- B. Always contain an operating system
- C. Execution behavior may be deterministic
- D. All of these
- E. None of these

Ans: E

- 4. Which of the following is not an example of a "small-scale embedded system"?
- A. Electronic Barbie doll
- B. Simple calculator
- C. Cell phone
- D. Electronic toy car

Ans: C

- 5. The first recognized modern embedded system is
- A. Apple computer
- B. Apollo Guidance Computer (AGC)
- C. Calculator
- D. Radio navigation system

Ans: B

- 6. The first mass produced embedded system is
- A. Minuteman-I
- B. Minuteman-II
- C. Autonetics D-17
- D. Apollo Guidance Computer (AGC)

Ans: C

- 7. Which of the following is an (are) an intended purpose(s) of embedded systems?
- A. Data collection
- B. Data processing
- C. Data communication
- D. All of these
- E. None of these

Ans: D

- 8. Which of the following is (are) example(s) of embedded system for data communication? USB Mass Storage device
- A. Network router

- B. Digital camera C. Music player D. All of these E. None of these Ans: B
- 9. What are the essential tight constraint/s related to the design metrics of an embedded system?
- A. Ability to fit on a single chip
- B. Low power consumption
- C. Fast data processing for real-time operations
- D .All of the above

Ans: D

- 10. A digital multi meter is an example of an embedded system for
- A. Data communication
- B. Monitoring
- C. Control
- D. All of these
- E. None of these

Ans: B

- 11. Which of the following is an (are) example(s) of an embedded system for signal processing?
- A. Apple iPOD (media player device)
- B. SanDisk USB mass storage device
- C. Both (A) and (B)
- D. None of these

Ans: D

- 12. The instruction set of RISC processor is
- A. Simple and lesser in number
- B. Complex and lesser in number
- C. Simple and larger in number
- D. Complex and larger in number

Ans: A

- 13. Which of the following is true about CISC processors?
- A. The instruction set is non-orthogonal
- B. The number of general purpose registers is limited
- C. Instructions are like macros in c language
- D. Variable length instructions
- E. All of these
- F. None of these

Ans: E

- 14. Main processor chip in computers is\_\_\_\_\_
- A. ASIC
- B. ASSP

C. CPU
D. CPLD
Ans: C
15. Processors used in many microcontroller products need to be
A. high power
B. low power
C. low interrupt response
D. low code density
Ans: B
16. In microcontrollers, UART is acronym of
A. Universal Applied Receiver/Transmitter
B. Universal Asynchronous Rectified Transmitter
C. Universal Asynchronous Receiver/Transmitter
D. United Asynchronous Receiver/Transmitter Ans: C
17. Which architecture is followed by general purpose microprocessors?
A. Harvard architecture
B. Von Neumann architecture
C. None of the mentioned
D. All of the mentioned
Ans: B
10. Which architecture involves both the valetile and the non-valetile memory?
18. Which architecture involves both the volatile and the non-volatile memory?  A. Harvard architecture
B. Von Neumann architecture
C. None of the mentioned
D. All of the mentioned
Ans: A
19. Which architecture provides separate buses for program and data memory?
A. Harvard architecture
B. Von Neumann architecture
C. None of the mentioned
D. All of the mentioned
Ans: A
20 Hammad and iterature allower
20. Harvard architecture allows:

A. Separate program and data memory

B. Pipe-ling

Ans: D

C. Complex architectureD. All of the mentioned

21. Which of the following processor architecture supports easier instruction pipelining?
A. Harvard
B. Von Neumann
C. Both of them
D. None of these
Ans: A
22. Which of the following is an example for wireless communication interface?
A. RS-232C
B. Wi-Fi
C. Bluetooth
D. EEE1394
E. Both (B) and (C)
Ans: E
23. ARM stands for
A. Advanced RISC Machine
B. Advanced RISC Methodology
C. Advanced Reduced Machine
D. Advanced Reduced Methodology
Ans: A
24. What is the processor used by ARM7?
A. 8-bit CISC
B. 8-bit RISC
C. 32-bit CISC
D. 32-bit RISC
Ans: D
25. The main importance of ARM micro-processors is providing operation with
A. Low cost and low power consumption
B. Higher degree of multi-tasking
C. Lower error or glitches
D. Efficient memory management
Ans: A
26. ARM processors where basically designed for
A. Main frame systems
B. Distributed systems
C. Mobile systems
D. Super computers
Ans: C
27. ASIC chip is
A. Simple in design.

B. Manufacturing time is less.	
C. It is faster.	
D. Both A&C.	
Ans: C	
28. ASIC stands for	
A. Application-System Integrated Circuits	
B. Application-Specific Integrated Circuits	
C. Application-System Internal Circuits	
D. Application-Specific Internal Circuits	
Ans: B	
29. In microcontrollers, I2C stands for	
A. Inter-Integrated Clock	
B. Initial-Integrated Clock	
C. Intel-Integrated Circuit	
D. Inter-Integrated Circuit	
Ans: D	
Alls. D	
30 is the smallest microcontrollers which can be programmed to perform	a
large range of tasks. A. PIC microcontrollers	-
B. ARM microcontrollers	
C. AVR microcontrollers	
D. ASIC microcontrollers	
Ans: - A	
31 was developed in the year 1996 by ATMEL Corporation	
A. PIC	
B. AVR	
C. ARM	
D. ASIC	
Ans: - B	
32. AVR stands for A.	
Advanced Virtual RISC.	
B. Alf-Egil Bogen and Vegard Wollan RISC	
C. Both A & B	
D. None of the above	
Ans: - C	
71115 C	
33. AVR microcontroller executes most of the instruction in A.	
Single execution cycle.	
B. Double execution cycle.	
C. Both A& B	
D. None of the above.	

Ans: - A
34. Term "the Internet of things" was coined by A. Edward L. Schneider B. Kevin Ashton C. John H. D. Charles Anthony Ans: B
35. The huge numbers of devices connected to the Internet of Things have to communicate automatically, not via humans, what is this called?  A. Bot to Bot(B2B)  B. Machine to Machine(M2M)  C. InterCloud  D. Skynet  Ans: B
36. What does "Things" in IoT refers to?  A. General device B. Information C. IoT devices D. Object  Ans: C
37. Interconnection of Internet and computing devices embedded in everyday objects, enabling them to send and receive data is called
38 is a computing concept that describes the idea of everyday physical objects being connected to the internet.  A. IOT (Internet of Things)  B. MQTT  C. COAP  D. SPI  Ans: -A
39 devices may support a number of interoperable communication protocols and communicate with other device and also with infrastructure.

A. Artificial Intelligence

B. Machine Learning

C. Internet of Things

D. None of above Ans: C	
<ul> <li>40. Which one is not element of IOT?</li> <li>A. Process</li> <li>B. People</li> <li>C. Security</li> <li>D. Things</li> <li>Ans: C</li> </ul>	
<ul> <li>41. IIOT stands for</li> <li>A. Information Internet of Things</li> <li>B. Industrial Internet of Things</li> <li>C. Inovative Internet of Things</li> <li>D. None of above</li> <li>Ans:B</li> </ul>	
42. Name of the IOT device which is first recognized?  A. Smart Watch B. ATM C. Radio D. Video Game  Ans: B	
43 is used by IOT  A. Radio information technology  B. Satellite  C. Cable  D. Broadband  Ans:A	
<ul> <li>44 consists of communication protocols for elect and a standard device.</li> <li>A. RFID</li> <li>B. MQTT</li> <li>C. NFC</li> <li>D. None of above</li> <li>Ans:C</li> </ul>	ronic devices, typically a mobile device
<ul> <li>45 refers to establish a proper connection</li> <li>A. Connectivity</li> <li>B. Analyzing</li> <li>C. Sensing</li> <li>D. Active Engagement</li> </ul>	n between all the things of IOT.

<ul> <li>46. IOT devices which have unique identities and can perform</li></ul>
47. The sensed data communicated A.
Cloud-based servers/storage.
B. I/O interfaces.
C. Internet connectivity.
D. None of the above
Ans: - A
48. IOT devices are various types, for instance A. Wearable sensors.  B. Smart watches. C. LED lights. D. All of the above  Ans: - D
49 is a collection of wired Ethernet standard for the link layer.
A. IEEE 802.3
B. IEEE 802.11
C. IEEE 802.16
D. IEEE 802.15.4
Ans: - A
50 is a collection of WLAN communication standards.
A. IEEE 802.3
B. IEEE 802.11
C. IEEE 802.16
D. IEEE 802.15.4
Ans:B
51 is a collection of wireless broadband standards (WiMax).
A. IEEE 802.3
B. IEEE 802.11
C. IEEE 802.16
D. IEEE 802.15.4
Ans:C

Ans: - A

52 is a collection of standards for LR-WPANs.
A. IEEE 802.3
B. IEEE 802.11
C. IEEE 802.16
D. IEEE 802.15.4 <b>Ans:D</b>
53. LR-WPANs standards from basis of specifications for high level communication protocol
such as A. Zigbee
B. Allsean
C. Tyrell
D. Microsoft's Azure
Ans:A
54
54 includes GSM and CDMA.
A. 2G
B. 3G
C. 4G
D. None of above
Ans:A
55include UMTS and CDMA2000.
A. 2G
B. 3G
C. 4G
D. None of above
Ans:B
56include LTE.
A. 2G
B. 3G
C. 4G
D. None of above
Ans:C
57 layer protocols determine how the data is physically sent over the network's
physical layer or medium.
A. Application layer
B. Transport layer
C. Network layer
D. Link layer Ans: - D
58 layer is responsible for sending of IP datagrams from the source network to the
destination network.
A. Application layer
B. Transport layer
C. Network layer
D. Link layer

Ans: C
59 layer perform the host addressing and packet routing.  A. Application layer  B. Transport layer  C. Network layer  D. Link layer  Ans:C
60 protocols provide end to end message transfer capability independent of the underlying network. A. Network layer B. Transport layer C. Application layer D. Link layer Ans: - B
61. The protocols define how the applications interface with the lower layer protocol to send the data over the network.  A. Application layer  B. Transport layer  C. Network layer  D. Link layer  Ans:A
62. 6LOWPAN stands for A. 6 LOW Personal Area Network B. IPv6 LOW Personal Area Network C. IPv6 over Low power wireless personal area network D. None of above Ans:C
63. 802.3 is the standard for 10BASE5 Ethernet that uses cable as shared medium.  A. Twisted pair cable  B. Coaxial cable  C. Fiber optic cable  D. None of the above  Ans: - B
64. IEEE 802.11 standards provide data rates A.  10 Gbit/s.  B. 1 Gbit/s C. 1 Mb/s to up to 6.75 Gb/s D. 250 Kb/s  Ans: - C
65 of the following is a protocol related to IOT

A. Zigbee
B. 6LoWPAN
C. CoAP
D. All of the above
Ans: C
66 is useful for time-sensitive application that have very small data units to
exchange and do not want the overhead of connection setup.
A. TCP
B. UDP
C. Transport layer D. None of the above.
Ans: - B
67 protocol uses Universal Resource Identifiers (URIs) to identify HTTP
resources.
A. HTTP
B. COAP
C. WebSocket
D. MQTT
Ans: A
68. The 10/100Mbit Ethernet support enables the board to connect to
A. LAN
B. MAN
C. WAN
D. WLAN
Ans: A
69. Which one out of these is not a data link layer technology?
A. Bluetooth
B. UART
C. Wi-Fi
D. HTTP
Ans: D
70. What is size of the IPv6 Address?
A. 32 bits
B. 64 bits
C. 128 bits
D. 256 bits
Ans: C
71. MQTT stands for
A. MQ Telemetry Things
B. MQ Transport Telemetry
C. MQ Transport Things

D. MQ Telemetry Transport  Ans: D
72. MQTT is better than HTTP for sending and receiving data. A. True B. False Ans: A
73. MQTT is protocol.  A. Machine to Machine  B. Internet of Things  C. Machine to Machine and Internet of Things  D. Machine Things  Ans: C
74. Which protocol is lightweight? A. MQTT B. HTTP C. CoAP D. SPI Ans: A
75 MQTT is: A. Based on client-server architecture B. Based on publish-subscribe architecture C. Based on both of the above D. Based on none of the above Ans: B
<ul> <li>76. XMPP is used for streaming which type of elements?</li> <li>A. XPL</li> <li>B. XML</li> <li>C. XHL</li> <li>D. MPL</li> <li>Ans: B</li> </ul>
77. XMPP creates identity. A. Device B. Email C. Message D. Data Ans: A

78. XMPP uses architecture.
A. Decentralized client-server
B. Centralized client-server
C. Message
D. Public/subscriber
Ans: A
79. What does HTTP do?
A. Enables network resources and reduces perception of latency
B. Reduces perception of latency and allows multiple concurrency exchange
C. Allows multiple concurrent exchange and enables network resources
D. Enables network resources and reduces perception of latency and Allows multiple concurrent
exchange.  Ans: D
Alls: D
80. HTTP expands?
A. Hyper Text Transfer Protocol
B. Hyper Terminal Transfer Protocol
C. Hyper Text Terminal Protocol
D. Hyper Terminal Text Protocol
Ans: A
81. CoAP is specialized in
A. Internet applications
B. Device applications
C. Wireless applications
D. Wired applications
Ans: A
82. Which protocol is used to link all the devices in the IoT?
A. TCP/IP
B. Network
C. UDP
D. HTTP
Ans: A
83. Data in network layer is transferred in the form of
A. Layers
B. Packets
C. Bytes
D. Bits Ans:B
94. Complete manyided by application level?
84. Services provided by application layer?  A. Web chat
B. Error control
D. LIIVI COMMOI

C. Connection services
D. Congestion control
Ans: A
85. TCP and UDP are called?
A. Application protocols
B. Session protocols
C. Transport protocols
D. Network protocols
Ans: C
86. Security based connection is provided by which layer?
A. Application layer
B. Transport layer
C. Session layer D. Network layer
Ans: D
Alls. D
87. Using which layer in transport layer data integrity can be assured?
A. Checksum
B. Repetition codes
C. Cyclic redundancy checks
D. Error correction codes
Ans: A
• A )
88. Transport layer receives data in the form of?
A. Packets
B. Byte streams
C. Bits stream
D. both packet and Byte stream
Ans: B
89. The network layer is considered as the?
A. Backbone
B. packets
C. Bytes
D. bits
Ans: A
90. The network layer consists of which hardware devices?
A. Router
B. Bridges
C. Switches

D. All of the above  Ans: D	
91. Network layer protocol exits in?	
A. Host	
B. Switches	
C. Packets	
D. Bridges	
Ans: A	
92. Which protocol has a quality of service?	
A. XMPP	
B. HTTP	
C. CoAP	
D. MQTT	
Ans: A	
93 is a data-centric middleware standard for device-to-device and machine-to-machine communication.	
A. Data Distribution Serviced (DDS)	
B. Advance Message Queuing Protocol (AMQP)	
C. Extensible Messaging and Presence Protocol (XMPP)	
D. Message Queue Telemetry Transport (MQTT)  Ans:A	
Alls;A	
94 is a bi-directional, fully duplex communication model that uses a persistent connection between client and server. A. Request-Response	
B. Publish-Subscriber	
C. Push-Pull	
D. Exclusive Pair	
Ans:D	
Alls, D	
95 is a stateful communication model and server is aware of all open connection.	
A. Request-Response	
B. Publish-Subscriber	
C. Push-Pull	
D. Exclusive Pair	
Ans:D	
Alls;D	
96. Which is not an IoT communication model.	
A. Request-Response	
B. Publish-Subscribe	
C. Push-Producer	

D. Exclusive Pair

97. In Node MCU, MCU stands for
A. Micro Control Unit
B. Micro Controller Unit
C. Macro Control Unit
D. Macro Controller Unit
Ans: B
(Ali), D
98. REST is acronym for
A. Representational State Transfer
B. Represent State Transfer
C. Representational State Transmit
D. Representational Store Transfer
Ans: A
99. WSN stands for
A. Wide Sensor Network
B. Wireless Sensor Network
C. Wired Sensor Network
D. None of these
Ans: B
100. Benefit of cloud computing services
A. Fast
B. Anywhere access
C. Higher utilization
D. All of the above
Ans: D
101. PaaS stands for
A. Platform as a Service
B. Platform as a Survey
C. People as a Service
D. Platform as a Survey
Ans: A
102 as a Service is a cloud computing infrastructure that creates a development
environment upon which applications may be build.  A. Infrastructure
A. Infrastructure  B. Service
C. Platform
D. All of the mentioned

Ans:C
103 is a cloud computing service model in which hardware is virtualized in the cloud. A. IaaS  B. CaaS  C. PaaS  D. None of the mentioned  Ans:A
104. Which of the following is the fundamental unit of virtualized client in an IaaS deployment a) workunit b) workspace c) workload d) all of the mentioned Ans:C
105 offering provides the tools and development environment to deploy applications of another vendor's application.  A. PaaS  B. IaaS  C. CaaS  D. All of the mentioned  Ans.B
106 is the most refined and restrictive service model.  A. IaaS  B. CaaS  C. PaaS  D. All of the mentioned  Ans.C  107 is suitable for IOT applications to have low latency or high throughput requirements.  A. REST  B. Publish-Subscriber  C. Push-Pull  D. WebSocket  Ans:D
108 is a one of the most popular wireless technologies used by WSNs.  A. Zigbee B. AllSean C. Tyrell D. Z-Wave Ans:A

109. Zigbee specification are based on  A. 802.3  B. 802.11  C. 802.16  D. 802.15.4  Ans:D
<ul> <li>110 is a transformative computing paradigm that involves delivering applications and services over the internet.</li> <li>A. WSN</li> <li>B. Cloud Computing</li> <li>C. Big Data</li> <li>D. None of above</li> <li>Ans:B</li> </ul>
111. The process of collecting, organizing and collecting large sets of data called as A. WSN B. Cloud Computing C. Big Data D. None of above Ans:C
112. Does Raspberry Pi need external hardware? A. True B. False Ans.B
113. Does RPi have an internal memory? A. True B. False Ans.A
114. What do we use to connect TV to RPi?  A. Male HDMI  B. Female HDMI  C. Male HDMI and Adapter  D. Female HDMI and Adapter  Ans.C
115. How power supply is done to RPi? A. USB connection B. Internal battery C. Charger D. Adapter

Ans.A
116. What is the Ethernet/LAN cable used in RPi? A.Cat5 B.at5e C. cat6 D. RJ45 Ans.D
117. Which instruction set architecture is used in Raspberry Pi?  A. X86  B. MSP  C. AVR  D. ARM  Ans: D
118. Does micro SD card present in all modules? A. True B. False Ans: A
119. Which characteristics involve the facility the thing to respond in an intelligent way to a particular situation? A. Intelligence B. Connectivity C. Dynamic Nature D. Enormous Scale Ans: A
120 empowers IoT by bringing together everyday objects.  A. Intelligence B. Connectivity C. Dynamic Nature D. Enormous Scale  Ans: B
121. The collection of data is achieved with changes.  A. Intelligence B. Connectivity C. Dynamic Nature D. Enormous Scale  Ans: C  122. The number of devices that need to be managed and that communicate with each other will be much larger. A. Intelligence B. Connectivity
C. Dynamic Nature

D. Enormous Scale
Ans: D
123 in IoT as one of the key characteristics, devices have different hardware platforms and networks.
A. Sensors
B. Heterogeneity
C. Security
D. Connectivity
Ans: B
124. Devices that transforms electrical signals into physical movements
A. Sensors
B. Actuators
C. Switches
D. Display
Ans: B
125. Stepper motors are
A. AC motors
B. DC motors
C. Electromagnets
D. None of above
Ans: B
126. DC motors converts electrical into energy.
126. DC motors converts electrical into energy.  A. Mechanical
B. Wind
C. Electric
D. None
Ans: A
127. Linear actuators are used in
A. Machine tools
B. Industrial machinery
C.both A and B
D.None
Ans: A
120 Calancid is a specially decised
128. Solenoid is a specially designed
A. Actuator B. Machine
C. Electromagnet
C. Licetoniagnet

D. none of above

Ans: C
129. Stepper motors are A. AC motors B. DC motors C. Electromagnets D. None of above Ans: B
130. Accelerometer sensors are used in A. Smartphones B. Aircrafts C. Both D. None of above Ans: C
131. Image sensors are found inA. Cameras B. Night-vision equipment C. Sonars D. All of above Ans: D
132. Gas sensors are used to detectgases. A. Toxic B. Natural C. Oxygen D. Hydrogen Ans: A
A. Toxic B. Natural C. Oxygen D. Hydrogen

135. IoT devices are \_\_\_\_

<ul><li>B. Non-standard</li><li>C. Both</li></ul>
D. None Ans: B
136. What is the microcontroller used in Arduino UNO?  A. ATmega328p B. ATmega2560 C. ATmega32114 D. AT91SAM3x8E  Ans: A
137 is an open source electronic platform based on easy to used hardware and software. A. Arduino
B. Uno
C. Raspberry Pi
D. Node
Ans:A
138 is used latching, locking, triggering.
A. Solenoid
B. Relay C. Linear Actuator
D. Servo motors
Ans:A
TARISOTA .
139detect the presence or absence of nearby object without any physical contact.
A. Smoke Sensor
B. Pressure Sensor
C. IR Sensor
D. Proximity Sensor
Ans:D
sensors include thermocouples, thermistors, resistor temperature detectors (RTDs) and
integrated circuits (ICs).
A. Smoke Sensor
B. Temperature Sensor
C. IR Sensor
D. Proximity Sensor
Ans:B
141 The massymment of hymidity is
141. The measurement of humidity is A. RH
<del></del>

A. Standard

B. PH C. IC D. None of aboved Ans:A 142 \_\_\_\_\_ sensor is used for automatic door controls, automatic parking system, automated sinks, automated toilet flushers, hand dryers. A. Smoke Sensor B. Temperature Sensor C. IR Sensor D. Motion Sensor Ans:D 143 \_\_\_\_\_ sensor measure heat emitted by objects. A. Smoke Sensor B. Temperature Sensor C. IR Sensor D. Proximity Sensor Ans:C

#### **Chapter-3 Basics of Digital Forensics**

- 1. Digital forensics is all of them except: A. Extraction of computer data.
- B. Preservation of computer data.
- C. Interpretation of computer data.
- D. Manipulation of computer data.

#### Ans:D

- 2. IDIP stands for
- A. Integrated Digital Investigation Process.
- B. Integrated Data Investigator Process.
- C. Integrated Digital Investigator Process.
- D. Independent Digital Investigator Process.

Ans: A

- 3. Who proposed Road Map for Digital Forensic Research (RMDFR) A.
- G.Gunsh.
- B. S.Ciardhuain
- C. J.Korn.
- D. G.Palmar

Ans: D

4. Investigator should satisfy following points: A. Contribute to society and human being.

<ul><li>B. Avoid harm to others.</li><li>C. Honest and trustworthy.</li><li>D. All of the above</li><li>Ans: D</li></ul>
<ul> <li>5. In the past, the method for expressing an opinion has been to frame a question based on available factual evidence.</li> <li>A. Hypothetical</li> <li>B. Nested</li> <li>C. Challenging</li> <li>D. Contradictory</li> <li>Ans: A</li> </ul>
6. More subtle because you are not aware that you are running these macros (the document opens
and the application automatically runs); spread via email
A. The purpose of copyright
B. Danger of macro viruses
C. Derivative works
D. computer-specific crime <b>Ans: B</b>
7. There are three c's in computer forensics. Which is one of the three?
A. Control
B. Chance
C. Chains
D. Core
Ans: A
8. When Federal Bureau Investigation program was created?
A.1979
B.1984
C.1995
D.1989 Ans: B
9. When the field of PC forensics began?
A.1960's
B.1970's
C.1980's
D.1990's <b>Ans:</b>
C
10 WI (' D' ' IE ' )
10. What is Digital Forensic?

- A. Process of using scientific knowledge in analysis and presentation of evidence in court
- B. The application of computer science and investigative procedures for a legal purpose involving the analysis of digital evidence after proper search authority, chain of custody, validation with mathematics, use of validated tools, repeatability, reporting, and possible expert presentation
- C. process where we develop and test hypotheses that answer questions about digital events

Γ	O. Use of science or technology in the investigation and establishment of the facts or evidence in a court of law
Δ	Ans: B
73	
11. D	Digital Forensics entails
	Accessing the system's directories viewing mode and navigating through the various systems
	iles and folders
B. U	Indeleting and recovering lost files
	dentifying and solving computer crimes
	The identification, preservation, recovery, restoration and presentation of digital evidence
	rom systems and devices
Ans:	
12. V	Which of the following is FALSE?
	The digital forensic investigator must maintain absolute objectivity
	t is the investigator's job to determine someone's guilt or innocence.
	t is the investigator's responsibility to accurately report the relevant facts of a case.
	The investigator must maintain strict confidentiality, discussing the results of an
	nvestigation on only a "need to know"
Ans:	
13. V	What is the most significant legal issue in computer forensics?
A. Pı	reserving Evidence
	eizing Evidence
	dmissibility of Evidence
	iscovery of Evidence
Ans:	
14	phase includes putting the pieces of a digital puzzle together and developing
inves	stigative hypotheses
A. P	Preservation phase
B. S	Survey phase
C. D	Documentation phase
D. R	Reconstruction phase
E. P	Presentation phase
Ans:	D
15. Iı	nphase investigator transfers the relevant data from a venue out of physical or
admi	nistrative control of the investigator to a controlled location
A. P	Preservation phase
	Survey phase
	Documentation phase
	Reconstruction phase
	Presentation phase

#### Ans:B

- 16. In \_\_\_\_\_\_phase investigator transfers the relevant data from a venue out of physical or administrative control of the investigator to a controlled location
- F. Preservation phase
- G. Survey phase
- H. Documentation phase
- I. Reconstruction phase
- J. Presentation phase

#### Ans:B

17. Computer forensics do not involve\_\_\_\_activity. A.

Preservation of computer data.

- B. Exraction of computer data.
- C. Manipulation of computer data.
- D. Interpretation of computer data.

Ans: C

18. A set of instruction compiled into a program that perform a particular task is known as: A. Hardware.

B.CPU

C. Motherboard

D. Software

Ans: D

- 19. Which of following is not a rule of digital forensics?
- A. An examination should be performed on the original data
- B. A copy is made onto forensically sterile media. New media should always be used if available.
- C. The copy of the evidence must be an exact, bit-by-bit copy
- D. The examination must be conducted in such a way as to prevent any modification of the evidence.

Ans: A

- 20. To collect and analyze the digital evidence that was obtained from the physical investigation phase, is the goal of which phase? A. Physical crime investigation
- B. Digital crime investigation.
- C. Review phase.
- D. Deployment phase.

Ans: B

- 21. To provide mechanism to an incident to be detected and confirmed is purpose of which phase?
- A. Physical crime investigation
- B. Digital crime investigation.
- C. Review phase.

D. Deployment phase.  Ans: D
<ul> <li>22. Which phase entails a review of the whole investigation and identifies area of improvement?</li> <li>A. Physical crime investigation</li> <li>B. Digital crime investigation.</li> <li>C. Review phase.</li> <li>D. Deployment phase</li> <li>Ans: C</li> </ul>
23is known as father of computer forensic.  A. G. Palmar  B. J. Korn  C. Michael Anderson  D. S.Ciardhuain.  Ans: C
24is well established science where various contribution have been made A. Forensic B. Crime C. Cyber Crime D. Evidence Ans: A
<ul> <li>25. Who proposed End to End Digital Investigation Process (EEDIP)?</li> <li>A. G. Palmar</li> <li>B. Stephenson</li> <li>C. Michael Anderson</li> <li>D. S.Ciardhuain</li> <li>Ans: B</li> <li>26. Which model of Investigation proposed by Carrier and Safford?</li> <li>A. Extended Model of Cybercrime Investigation (EMCI)</li> <li>B. Integrated Digital Investigation Process(IDIP)</li> <li>C. Road Map for Digital Forensic Research (RMDFR)</li> <li>D. Abstract Digital Forensic Model (ADFM)</li> <li>Ans: B</li> </ul>
<ul> <li>27. Which of the following is not a property of computer evidence? A. Authentic and Accurate.</li> <li>B. Complete and Convincing.</li> <li>C. Duplicated and Preserved.</li> <li>D. Conform and Human Readable. Ans. D</li> <li>28can makes or breaks investigation.</li> </ul>

- A. Crime B. Security C: Digital Forensic D: Evidence Ans: D 29. \_\_\_\_\_\_ is software that blocks unauthorized users from connecting to your computer.
- A. Firewall
- B. Quick lauch
- C. OneLogin
- D. Centrify

Ans: A

30. Which of following are general Ethical norms for Investigator? A.

To contribute to society and human being.

- B. To avoid harm to others.
- C. To be honest and trustworthy.
- D. All of above
- E. None of above

Ans: D

- 31. Which of following are Unethical norms for Investigator? A. Uphold any relevant evidence.
- B. Declare any confidential matters or knowledge.
- C. Distort or falsify education, training, credentials.
- D. All of above
- E. None of above

Ans: D

32. Which of following is not general ethical norm for Investigator? A.

To contribute to society and human being.

- B. Uphold any relevant Evidence.
- C. To be honest and trustworthy.
- D. To honor confidentially.

Ans: B

- 33. Which of following is a not unethical norm for Digital Forensics Investigation? A. Uphold any relevant evidence.
- B. Declare any confidential matters or knowledge.
- C. Distort or falsify education, training, credentials.
- D. To respect the privacy of others. **Ans: D**
- 34. What is called as the process of creation a duplicate of digital media for purpose of examining it?
- A. Acquisition.
- B. Steganography. C. Live analysis
- D. Hashing.

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35. Which term refers for modifying a computer in a way which was not originally intended to view Information? A. Metadata B. Live analysis C. Hacking D. Bit Copy Ans: C
36. The ability to recover and read deleted or damaged files from a criminal's computer is an example of a law enforcement specialty called?  A. Robotics B. Simulation C. Computer Forensics D. Animation  Ans: C
37. What are the important parts of the mobile device which used in Digital forensic? A. SIM B. RAM C. ROM. D.EMMC chip Ans: D
38. Using what, data hiding in encrypted images be carried out in digital forensics? A. Acquisition.  B. Steganography. C. Live analysis D. Hashing.  And: B
<ul> <li>39. Which of this is not a computer crime?</li> <li>A. e-mail harassment B.</li> <li>Falsification of data.</li> <li>C. Sabotage.</li> <li>D. Identification of data</li> <li>Ans. D</li> </ul>
40. Which file is used to store the user entered password?  Aexe Btxt Ciso Dsam  Ans: D  41 is the process of recording as much data as possible to create reports and analysis on user input. A. Data mining
on user input. 11. Duta illiming

- B. Data carving
- C. Meta data D. Data Spoofing.

Ans: A

- 42. \_\_\_\_\_searches through raw data on a hard drive without using a file system.
- A. Data mining
- B. Data carving
- C. Meta data D. Data Spoofing.

Ans: B

- 43. What is first step to Handle Retrieving Data from an Encrypted Hard Drive?
- A. Formatting disk
- B. Storing data
- C. Finding configuration files.
- D. Deleting files.

Ans: C

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