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Chapter 10: Overview of Future Skills and Artificial Intelligence

Q1. IoT stands for?

A) Internet of Things
B) Internet of Technology
C) Internal of Things
D) Interconnection of Things
Answer: A) Internet of Things

Q2. Analysis of very large and complex data sets to find patterns is called?

A) Big Data Analytics
B) Small Data Processing
C) Data Entry
D) Data Deletion
Answer: A) Big Data Analytics

Q3. Storing and accessing data/programs over the internet instead of a local hard drive is called?

A) Cloud Computing
B) Local Computing
C) Edge Storage
D) Data Mining
Answer: A) Cloud Computing

Q4. A simulated, computer-generated environment that a user can interact with is called?

A) Virtual Reality
B) Augmented Reality only
C) Real Environment
D) Physical Reality
Answer: A) Virtual Reality

Q5. The simulation of human intelligence by machines is called?

A) Artificial Intelligence
B) Human Intelligence
C) Cloud Intelligence
D) Data Intelligence
Answer: A) Artificial Intelligence

Q6. A decentralized, secure digital ledger technology used in cryptocurrencies is called?

A) Blockchain Technology
B) Cloud Computing
C) Big Data
D) IoT
Answer: A) Blockchain Technology

Q7. Creating three-dimensional objects layer by layer from a digital file is called?

A) 3D Printing/Additive Manufacturing
B) Cloud Computing
C) Big Data Analytics
D) IoT
Answer: A) 3D Printing/Additive Manufacturing

Q8. Automating repetitive, rule-based tasks using software robots is called?

A) Robotics Process Automation (RPA)
B) Cloud Computing
C) Virtual Reality
D) Blockchain
Answer: A) Robotics Process Automation (RPA)

Q9. Which of the following is an application/example of Artificial Intelligence?

A) Voice assistants like Siri/Alexa
B) A basic calculator
C) A typewriter
D) A landline phone
Answer: A) Voice assistants like Siri/Alexa

Q10. Which of the following is considered a subset of Artificial Intelligence?

A) Machine Learning
B) Cloud Storage
C) 3D Printing

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D) QR Code

Answer: A) Machine Learning

Q11. Connecting everyday physical devices (like fridge, AC) to the internet for smart control is an example of?

A) Internet of Things (IoT)

B) Blockchain

C) Virtual Reality

D) Big Data

Answer: A) Internet of Things (IoT)

Q12. Which of the following is an advantage of Artificial Intelligence?

A) Reduces human error and increases efficiency

B) Always replaces human jobs completely with no benefits

C) Cannot process large data

D) Cannot be used in healthcare

Answer: A) Reduces human error and increases efficiency

Q13. Which of the following best defines "Machine Learning"?

A) A subset of AI where systems learn from data to improve performance without explicit programming

B) A type of hardware

C) A type of printer

D) A type of network cable

Answer: A) A subset of AI where systems learn from data to improve performance without explicit programming

Q14. Which of the following technology overlays digital information onto the real world (e.g. Pokemon Go)?

A) Augmented Reality (AR)

B) Virtual Reality (VR)

C) Cloud Computing

D) Blockchain

Answer: A) Augmented Reality (AR)

Q15. Which of the following is an example of Cloud Computing service?

A) Google Drive

B) MS Paint

C) Notepad

D) Local Hard Disk

Answer: A) Google Drive

Q16. Which of the following is a key characteristic of Big Data?

A) Volume, Velocity and Variety of data

B) Small size and simple structure

C) Only text data

D) Only numeric data

Answer: A) Volume, Velocity and Variety of data

Q17. Which of the following is a disadvantage/concern associated with Artificial Intelligence?

A) Potential job displacement and ethical concerns

B) Always increases employment with no downsides

C) Has zero cost to implement

D) Requires no data at all

Answer: A) Potential job displacement and ethical concerns

Q18. Which of the following describes "Ethics of Artificial Intelligence"?

A) Principles guiding the responsible and fair development/use of AI

B) The hardware components of AI systems

C) The programming language used for AI

D) The cost of AI systems

Answer: A) Principles guiding the responsible and fair development/use of AI

Q19. Which of the following is a common myth about Artificial Intelligence?

A) AI will completely replace all human jobs and think exactly like humans

B) AI can process large datasets

C) AI is used in voice assistants

D) AI is a subset of computer science

Answer: A) AI will completely replace all human jobs and think exactly like humans

Q20. Which of the following sector commonly benefits from AI-based diagnosis and treatment recommendations?

A) Healthcare

B) None, AI has no use in healthcare

C) Only agriculture

D) Only sports

Answer: A) Healthcare

Q21. Which of the following is an example of a smart wearable device using IoT technology?

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A) Smartwatch tracking heart rate
B) A basic wall clock
C) A landline phone
D) A typewriter
Answer: A) Smartwatch tracking heart rate

Q22. Which of the following technology is primarily used to ensure secure, tamper-proof transaction records in cryptocurrency systems?

A) Blockchain
B) Cloud Computing
C) Virtual Reality
D) 3D Printing
Answer: A) Blockchain

Q23. Which of the following is a benefit of Cloud Computing?

A) Access to data/applications from anywhere with internet, without needing local storage
B) Requires no internet connection at all
C) Data can only be accessed from one specific device
D) Increases local hardware cost significantly
Answer: A) Access to data/applications from anywhere with internet, without needing local storage

Q24. Which of the following industries commonly uses 3D printing/additive manufacturing?

A) Manufacturing and healthcare (e.g., prosthetics)
B) Only cooking
C) Only gardening
D) Only music
Answer: A) Manufacturing and healthcare (e.g., prosthetics)

Q25. Which of the following describes "Types of Artificial Intelligence" based on capability?

A) Narrow AI, General AI, and Super AI
B) Only Narrow AI exists
C) Only hardware-based AI
D) Only software-free AI
Answer: A) Narrow AI, General AI, and Super AI

Q26. Which of the following is an example of "Narrow AI" (AI designed for a specific task)?

A) A voice assistant like Siri that performs specific tasks
B) A hypothetical AI with full human-level general intelligence
C) A basic calculator
D) A typewriter
Answer: A) A voice assistant like Siri that performs specific tasks

Q27. Which of the following describes the "Future Impact of AI" in different sectors as covered in the syllabus?

A) AI is expected to transform sectors like healthcare, education, agriculture and industry
B) AI has no future impact on any sector
C) AI only affects the IT sector
D) AI cannot be used outside factories
Answer: A) AI is expected to transform sectors like healthcare, education, agriculture and industry

Q28. Which of the following best defines "Social & Mobile" as a future skill area?

A) Growth of social networking and mobile technology influencing communication and business
B) A type of hardware component
C) A type of printer
D) A type of storage device
Answer: A) Growth of social networking and mobile technology influencing communication and business

Q29. Which of the following is a real-world application of Big Data Analytics?

A) Analyzing customer buying patterns for businesses
B) Printing a single document
C) Formatting a hard disk
D) Typing an email
Answer: A) Analyzing customer buying patterns for businesses

Q30. Which of the following is a benefit of Robotics Process Automation (RPA)?

A) Automating repetitive tasks to save time and reduce errors
B) Making tasks more manual
C) Increasing paperwork
D) Slowing down business processes
Answer: A) Automating repetitive tasks to save time and reduce errors

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Q31. Which of the following is generally considered a "goal" of Artificial Intelligence?

A) To create systems that can reason, learn and solve problems like humans

B) To eliminate the need for computers entirely

C) To only replace hardware manufacturing

D) To reduce internet usage

Answer: A) To create systems that can reason, learn and solve problems like humans

Q32. Which of the following is TRUE about the "History of Artificial Intelligence"?

A) AI research has evolved over several decades since the mid-20th century

B) AI was invented in the last 5 years only

C) AI has no historical background

D) AI existed before computers

Answer: A) AI research has evolved over several decades since the mid-20th century

Q33. Which of the following technology allows remote surgery assistance and simulation training in medicine?

A) Virtual Reality/AI-assisted technology

B) 3D Printing only

C) Blockchain only

D) USSD

Answer: A) Virtual Reality/AI-assisted technology

Q34. Which of the following is an example of AI used in everyday life?

A) Recommendation systems on shopping/streaming platforms

B) A manual typewriter

C) A basic torch light

D) A simple calculator

Answer: A) Recommendation systems on shopping/streaming platforms

Q35. Which of the following describes a "Subset of Artificial Intelligence" dealing with neural networks and large datasets?

A) Deep Learning

B) 3D Printing

C) USSD

D) PoS

Answer: A) Deep Learning

Q36. Which of the following is a concern regarding data privacy in the context of IoT devices?

A) IoT devices collect personal data that could be misused if not secured properly

B) IoT devices never collect any data

C) IoT devices have no internet connectivity

D) IoT devices cannot be hacked

Answer: A) IoT devices collect personal data that could be misused if not secured properly

Q37. Which of the following best describes Cloud Computing service models (e.g., SaaS, IaaS, PaaS)?

A) Different ways cloud services are delivered — Software, Infrastructure and Platform as a Service

B) Types of hardware only

C) Types of printers

D) Types of network cables

Answer: A) Different ways cloud services are delivered — Software, Infrastructure and Platform as a Service

Q38. Which of the following is an example of "Big Data" source?

A) Social media posts, sensor data, and transaction records generated continuously

B) A single text file

C) One email

D) A single photo

Answer: A) Social media posts, sensor data, and transaction records generated continuously

Q39. Which of the following industries uses Virtual Reality primarily for immersive training and simulations?

A) Aviation, healthcare and defense

B) None of the industries use VR

C) Only agriculture

D) Only retail

Answer: A) Aviation, healthcare and defense

Q40. Which of the following statement about "AI at Present" is generally TRUE?

A) AI is widely integrated into everyday applications like search engines, virtual assistants and recommendation systems

B) AI is not used anywhere currently

C) AI is banned worldwide

D) AI only exists in science fiction movies

Answer: A) AI is widely integrated into everyday applications like search engines, virtual assistants and recommendation systems

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Q41. Which of the following technology is primarily responsible for enabling "smart homes" (smart lights, smart locks, etc.)?

A) Internet of Things (IoT)
B) Blockchain
C) 3D Printing
D) RTGS

Answer: A) Internet of Things (IoT)

Q42. Which of the following is a common application of Blockchain technology besides cryptocurrency?

A) Secure and transparent record-keeping (e.g., supply chain tracking)
B) Printing documents
C) Video editing
D) Word processing

Answer: A) Secure and transparent record-keeping (e.g., supply chain tracking)

Q43. Which of the following is an example of a Future Skill area highlighted in the CCC syllabus?

A) Cloud Computing, Big Data, AI, IoT, Blockchain, VR, 3D Printing and RPA
B) Only typing skills
C) Only handwriting
D) Only paper filing

Answer: A) Cloud Computing, Big Data, AI, IoT, Blockchain, VR, 3D Printing and RPA

Q44. Which of the following best explains why learning about Future Skills and AI is included in the CCC syllabus?

A) To make learners aware of emerging technologies shaping the future job market
B) To discourage the use of computers
C) To focus only on old technologies
D) To avoid digital literacy

Answer: A) To make learners aware of emerging technologies shaping the future job market

Q45. Which of the following is a potential advantage of AI in agriculture?

A) Precision farming using data analysis for better crop yield
B) AI cannot be used in agriculture
C) AI only works indoors
D) AI has no application in farming

Answer: A) Precision farming using data analysis for better crop yield

Q46. Which of the following describes "Application of AI" in customer service?

A) Chatbots handling customer queries automatically
B) Manual paper-based responses only
C) Postal mail replies only
D) No AI is used in customer service

Answer: A) Chatbots handling customer queries automatically

Q47. Which of the following technology allows manufacturing customized products directly from a digital 3D model?

A) 3D Printing
B) Cloud Computing
C) Blockchain
D) IoT

Answer: A) 3D Printing

Q48. Which of the following is a correct example demonstrating "Robotics Process Automation" in a business setting?

A) Automated software bots processing routine data entry tasks
B) A human manually entering all data
C) Printing physical forms
D) Mailing letters by post

Answer: A) Automated software bots processing routine data entry tasks

Q49. Which of the following is generally considered a limitation of current Artificial Intelligence systems?

A) Lack of true human-like general reasoning and common sense in most systems
B) AI can fully replicate human emotions perfectly
C) AI requires no data to function
D) AI never makes errors

Answer: A) Lack of true human-like general reasoning and common sense in most systems

Q50. Which of the following best summarizes the overall theme of Chapter 10 in the CCC syllabus?

A) Introducing learners to emerging future technologies including AI and their real-world impact
B) Teaching only basic typing
C) Teaching only hardware repair
D) Teaching only email usage

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Answer: A) Introducing learners to emerging future technologies including AI and their real-world impact

Q51. Which of the following describes 'Edge Computing' in relation to Cloud Computing?

A) Processing data closer to where it is generated (at the edge of the network) rather than relying solely on a centralized cloud

B) The same as traditional cloud computing with no difference

C) A method of physically printing documents

D) A type of antivirus feature

Answer: A) Processing data closer to where it is generated (at the edge of the network) rather than relying solely on a centralized cloud

Q52. Which of the following describes 'Digital Twin' technology?

A) A virtual, real-time digital representation of a physical object or system

B) A type of physical backup device

C) A type of email client

D) A type of web browser

Answer: A) A virtual, real-time digital representation of a physical object or system

Q53. Which of the following is a common application of IoT in agriculture (Smart Farming)?

A) Using sensors to monitor soil moisture, temperature and crop conditions remotely

B) Manually checking every field without any technology

C) Only using traditional farming tools

D) Avoiding technology in agriculture entirely

Answer: A) Using sensors to monitor soil moisture, temperature and crop conditions remotely

Q54. Which of the following is an example of AI-powered technology used in autonomous vehicles?

A) Self-driving car systems using sensors and AI algorithms to navigate

B) Manual gear shifting only

C) Traditional cruise control only

D) Basic speedometer readings only

Answer: A) Self-driving car systems using sensors and AI algorithms to navigate

Q55. Which of the following describes 'Natural Language Processing (NLP)' as a branch of AI?

A) Enabling computers to understand, interpret and generate human language

B) A hardware component only

C) A type of printer

D) A type of network cable

Answer: A) Enabling computers to understand, interpret and generate human language

Q56. Which of the following is an example of NLP application in daily life?

A) Voice assistants and chatbots understanding spoken/typed language

B) 3D printers

C) Barcode scanners only

D) Basic calculators

Answer: A) Voice assistants and chatbots understanding spoken/typed language

Q57. Which of the following describes 'Computer Vision' as a branch of AI?

A) Enabling computers to interpret and understand visual information from images/videos

B) A hardware monitor only

C) A type of printer

D) A type of keyboard

Answer: A) Enabling computers to interpret and understand visual information from images/videos

Q58. Which of the following is an example of Computer Vision application?

A) Facial recognition systems and object detection in photos

B) Basic text editors

C) Simple calculators

D) Traditional landline phones

Answer: A) Facial recognition systems and object detection in photos

Q59. Which of the following describes 'Smart City' initiatives using future technologies?

A) Using IoT, AI, and data analytics to improve urban services like traffic management and utilities

B) Building cities without any technology

C) Using only paper-based governance

D) Avoiding all digital infrastructure

Answer: A) Using IoT, AI, and data analytics to improve urban services like traffic management and utilities

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Q60. Which of the following is a potential application of Blockchain in the future beyond cryptocurrency, as covered conceptually in the syllabus?

A) Secure voting systems and transparent record-keeping

B) Only for illegal activities

C) Has no other application besides cryptocurrency

D) Only used for printing documents

Answer: A) Secure voting systems and transparent record-keeping

Q61. Which of the following describes the concept of 'Industry 4.0'?

A) The integration of IoT, AI, automation and data exchange in modern manufacturing/industrial processes

B) A type of accounting software

C) A type of email client

D) A type of antivirus

Answer: A) The integration of IoT, AI, automation and data exchange in modern manufacturing/industrial processes

Q62. Which of the following is an example of Cloud Computing benefiting small businesses?

A) Access to affordable, scalable computing resources without heavy upfront hardware investment

B) Requiring businesses to buy expensive local servers always

C) Eliminating the need for any internet connection

D) Making data less accessible

Answer: A) Access to affordable, scalable computing resources without heavy upfront hardware investment

Q63. Which of the following describes 'Predictive Analytics' as part of Big Data Analytics?

A) Using historical data and statistical algorithms to predict future outcomes/trends

B) Only recording past data with no analysis

C) Deleting old data permanently

D) Printing data reports only

Answer: A) Using historical data and statistical algorithms to predict future outcomes/trends

Q64. Which of the following is a real-world example of Predictive Analytics?

A) E-commerce platforms predicting products a customer might want to buy next

B) A basic calculator performing addition

C) A typewriter printing text

D) A landline phone making calls

Answer: A) E-commerce platforms predicting products a customer might want to buy next

Q65. Which of the following describes 'Chatbot' technology as an AI application?

A) A software program that simulates conversation with users, often used in customer service

B) A type of hardware device

C) A type of printer

D) A type of monitor

Answer: A) A software program that simulates conversation with users, often used in customer service

Q66. Which of the following describes the concept of 'Data Privacy' concerns related to Big Data and AI?

A) Ensuring personal data collected and analyzed is protected and used responsibly, with user consent

B) Big Data and AI have no privacy implications

C) Data privacy only matters for governments, not individuals

D) Data privacy is irrelevant to Big Data Analytics

Answer: A) Ensuring personal data collected and analyzed is protected and used responsibly, with user consent

Q67. Which of the following describes 'Bias in AI' as an ethical concern?

A) AI systems can reflect and amplify biases present in their training data, leading to unfair outcomes

B) AI systems are always completely neutral and unbiased

C) Bias only affects hardware, not software

D) AI cannot be biased under any circumstances

Answer: A) AI systems can reflect and amplify biases present in their training data, leading to unfair outcomes

Q68. Which of the following is a recommended approach to address ethical concerns in AI development, as per the syllabus theme?

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A) Establishing guidelines and responsible practices for fair, transparent and accountable AI use

B) Ignoring all ethical considerations entirely

C) Developing AI without any oversight or regulation

D) Avoiding AI development altogether

Answer: A) Establishing guidelines and responsible practices for fair, transparent and accountable AI use

Q69. Which of the following describes the potential future impact of AI on the education sector?

A) Personalized learning experiences and AI-assisted tutoring/grading systems

B) AI has no application in education

C) Only traditional chalk-and-board methods will be used forever

D) Education will completely stop using any technology

Answer: A) Personalized learning experiences and AI-assisted tutoring/grading systems

Q70. Which of the following describes the potential future impact of AI on the transportation sector?

A) Development of autonomous vehicles and AI-optimized traffic management systems

B) AI has no application in transportation

C) Only manual driving will exist forever

D) Transportation cannot be improved with technology

Answer: A) Development of autonomous vehicles and AI-optimized traffic management systems

Q71. Which of the following describes the concept of 'Digital Divide'?

A) The gap between individuals/communities who have access to modern technology and those who do not

B) A type of computer virus

C) A type of AI algorithm

D) A type of cloud service

Answer: A) The gap between individuals/communities who have access to modern technology and those who do not

Q72. Which of the following is an initiative aimed at bridging the digital divide by promoting digital literacy in India, related to the goals of the CCC course itself?

A) Digital Literacy Programs like the CCC course

B) Only providing free smartphones with no training

C) Ignoring rural connectivity issues

D) Restricting internet access further

Answer: A) Digital Literacy Programs like the CCC course

Q73. Which of the following describes 'Quantum Computing' as an emerging future technology?

A) A type of computing that uses principles of quantum mechanics to process information in fundamentally new ways

B) A faster version of traditional computing with no fundamental difference

C) A type of printer

D) A type of network cable

Answer: A) A type of computing that uses principles of quantum mechanics to process information in fundamentally new ways

Q74. Which of the following is a potential future application of Quantum Computing mentioned in emerging technology discussions?

A) Solving complex problems in cryptography, drug discovery and optimization much faster than classical computers

B) Only used for basic word processing

C) Only used for printing documents

D) Has no practical applications

Answer: A) Solving complex problems in cryptography, drug discovery and optimization much faster than classical computers

Q75. Which of the following describes '5G Technology' as an enabler of future skills like IoT?

A) A high-speed mobile network technology enabling faster connectivity for IoT devices and applications

B) A type of antivirus

C) A type of printer

D) A type of operating system

Answer: A) A high-speed mobile network technology enabling faster connectivity for IoT devices and applications

Q76. Which of the following is a benefit of 5G technology for IoT and smart devices?

A) Lower latency and higher speed enabling more responsive and connected smart devices

B) Slower speeds than previous generations

C) No improvement over 4G in any aspect

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D) Only works for voice calls

Answer: A) Lower latency and higher speed enabling more responsive and connected smart devices

Q77. Which of the following describes 'Automation' as a broader future skill theme covering RPA?

A) Using technology to perform tasks with minimal human intervention

B) Only refers to manual labor

C) Has no relation to future skills

D) Only applies to manufacturing, not services

Answer: A) Using technology to perform tasks with minimal human intervention

Q78. Which of the following sector is commonly cited as benefiting from Robotics Process Automation for repetitive back-office tasks?

A) Banking and Finance (e.g., processing routine transactions)

B) Only agriculture

C) Only sports

D) Only entertainment

Answer: A) Banking and Finance (e.g., processing routine transactions)

Q79. Which of the following describes the relationship between Big Data and Artificial Intelligence?

A) AI systems often rely on large volumes of data (Big Data) to learn patterns and improve performance

B) Big Data and AI are entirely unrelated fields

C) AI cannot function with any data

D) Big Data replaces the need for AI entirely

Answer: A) AI systems often rely on large volumes of data (Big Data) to learn patterns and improve performance

Q80. Which of the following is a reason cloud computing is considered cost-effective for many organizations?

A) Reduces the need for large upfront investment in physical hardware and infrastructure

B) Always requires more hardware investment than traditional methods

C) Cloud computing has no cost benefits

D) Increases the need for local servers

Answer: A) Reduces the need for large upfront investment in physical hardware and infrastructure

Q81. Which of the following describes 'Augmented Reality (AR)' use in retail, as an application of future skills technologies?

A) Allowing customers to virtually try on products or visualize items in their space before buying

B) Has no application in retail

C) Only used in gaming with no other use

D) Replaces the need for any physical stores entirely

Answer: A) Allowing customers to virtually try on products or visualize items in their space before buying

Q82. Which of the following is a key consideration when adopting new future technologies like AI and IoT in an organization, related to the Ethics of AI theme?

A) Balancing innovation with responsible, ethical and secure implementation

B) Adopting technology without any consideration for security

C) Ignoring user privacy completely

D) Avoiding all new technology adoption

Answer: A) Balancing innovation with responsible, ethical and secure implementation

Q83. Which of the following describes the potential impact of AI-driven automation on the job market, as a balanced view covered under advantages/disadvantages of AI?

A) It may displace some routine jobs while creating new opportunities requiring different skills

B) It will have absolutely no impact on any jobs

C) It will only create jobs with no displacement at all

D) It will only displace jobs with no new opportunities created

Answer: A) It may displace some routine jobs while creating new opportunities requiring different skills

Q84. Which of the following is recommended for individuals to remain relevant in a future job market increasingly influenced by AI and automation?

A) Continuous learning and upskilling in relevant future technologies

B) Avoiding all learning about new technologies

C) Relying solely on skills that are becoming obsolete

D) Ignoring technological changes entirely

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Answer: A) Continuous learning and upskilling in relevant future technologies

Q85. Which of the following describes 'Green Computing' or sustainable use of technology, sometimes discussed alongside future skills?

A) Practices aimed at reducing the environmental impact of computing and technology use

B) Using as much energy as possible regardless of impact

C) Avoiding the use of any computers

D) Ignoring environmental considerations in technology

Answer: A) Practices aimed at reducing the environmental impact of computing and technology use

Q86. Which of the following is an example of applying Big Data Analytics in the healthcare sector?

A) Analyzing patient data to identify disease patterns and improve treatment outcomes

B) Only used for hospital billing with no analytical value

C) Has no application in healthcare

D) Only used for scheduling appointments manually

Answer: A) Analyzing patient data to identify disease patterns and improve treatment outcomes

Q87. Which of the following describes the concept of 'Smart Manufacturing' related to Industry 4.0 and Robotics?

A) Using automation, IoT, and data analytics to optimize manufacturing processes

B) Manufacturing done entirely without any technology

C) Only applies to small-scale handmade products

D) Has no connection to modern industrial practices

Answer: A) Using automation, IoT, and data analytics to optimize manufacturing processes

Q88. Which of the following is an example of how Virtual Reality can be used in education as a future skill application?

A) Creating immersive learning experiences like virtual field trips or lab simulations

B) VR has no application in education

C) Only used for entertainment purposes

D) Replaces the need for teachers entirely with no benefit

Answer: A) Creating immersive learning experiences like virtual field trips or lab simulations

Q89. Which of the following describes the general goal of introducing learners to IoT, AI, Cloud Computing and other future skills in the CCC course?

A) To build foundational awareness of emerging technologies relevant to future employability and digital literacy

B) To make learners avoid using any modern technology

C) To focus exclusively on outdated computing methods

D) To discourage further learning in technology fields

Answer: A) To build foundational awareness of emerging technologies relevant to future employability and digital literacy

Q90. Which of the following best summarizes why understanding Artificial Intelligence ethics and myths is important for a digitally literate citizen, as covered in the syllabus?

A) It helps individuals use AI responsibly and make informed decisions rather than believing misconceptions

B) It is not important for general digital literacy

C) Only AI developers need to understand AI ethics

D) Myths about AI have no impact on public perception or usage

Answer: A) It helps individuals use AI responsibly and make informed decisions rather than believing misconceptions

Q91. Which of the following describes 'Digital Transformation' in businesses adopting future technologies?

A) The integration of digital technology into all areas of business, fundamentally changing operations and value delivery

B) Avoiding all technology adoption in business

C) Only replacing paper with digital paper, nothing else

D) Has no impact on business operations

Answer: A) The integration of digital technology into all areas of business,

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fundamentally changing operations and value delivery

Q92. Which of the following is an example of AI applied in fraud detection for banking, connecting Chapter 8 and Chapter 10 themes?

A) AI algorithms analyzing transaction patterns to flag suspicious activity in real time

B) AI has no role in fraud detection

C) Fraud detection relies only on manual review with no technology

D) AI increases fraud rather than detecting it

Answer: A) AI algorithms analyzing transaction patterns to flag suspicious activity in real time

Q93. Which of the following best describes the role of sensors in IoT devices?

A) Collecting real-world data (temperature, motion, etc.) to be processed and acted upon by connected systems

B) Sensors only display data with no data collection

C) Sensors replace the need for internet connectivity

D) Sensors are unrelated to IoT devices

Answer: A) Collecting real-world data (temperature, motion, etc.) to be processed and acted upon by connected systems

Q94. Which of the following is an example of Big Data Analytics being used in traffic management for smart cities?

A) Analyzing real-time traffic data to optimize signal timing and reduce congestion

B) Has no application in traffic management

C) Only used for printing traffic tickets

D) Replaces the need for traffic signals entirely

Answer: A) Analyzing real-time traffic data to optimize signal timing and reduce congestion

Q95. Which of the following describes the concept of 'Interoperability' as it relates to IoT devices from different manufacturers?

A) The ability of different IoT devices and systems to work together and exchange data effectively

B) IoT devices from different manufacturers can never work together

C) Interoperability is not a consideration for IoT

D) Only devices from the same manufacturer can ever connect to the internet

Answer: A) The ability of different IoT devices and systems to work together and exchange data effectively

Q96. Which of the following is a benefit of Robotics Process Automation for reducing human error in repetitive data entry tasks?

A) Bots perform tasks consistently according to defined rules, minimizing manual errors

B) RPA increases errors compared to manual entry

C) RPA has no impact on error rates

D) RPA can only be used for creative tasks, not data entry

Answer: A) Bots perform tasks consistently according to defined rules, minimizing manual errors

Q97. Which of the following describes 'Explainable AI (XAI)' as an emerging concept related to AI ethics?

A) AI systems designed so their decision-making processes can be understood and interpreted by humans

B) AI systems that operate completely without any transparency by design

C) A type of hardware component

D) A type of network protocol

Answer: A) AI systems designed so their decision-making processes can be understood and interpreted by humans

Q98. Which of the following is an example of Cloud Computing enabling remote work and collaboration, especially relevant post-pandemic?

A) Cloud-based document sharing and video conferencing tools accessible from anywhere

B) Cloud computing has no relevance to remote work

C) Requires physical presence in an office at all times

D) Only works with locally installed software with no internet needed

Answer: A) Cloud-based document sharing and video conferencing tools accessible from anywhere

Q99. Which of the following describes the future skill relevance of understanding basic AI concepts for non-technical professionals, as emphasized in the CCC syllabus?

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A) It helps them adapt to AI-integrated tools and workflows increasingly used across various job roles

B) Only software engineers need to understand AI concepts

C) AI concepts are irrelevant outside of IT departments

D) Understanding AI provides no professional benefit

Answer: A) It helps them adapt to AI-integrated tools and workflows increasingly used across various job roles

Q100. Which of the following best captures the overall purpose of covering Future Skills and AI in a foundational digital literacy course like CCC?

A) To prepare learners with awareness of technologies that will increasingly shape work and daily life

B) To make learners experts capable of building AI systems

C) To discourage the adoption of any new technology

D) To focus solely on historical computing methods with no forward outlook

Answer: A) To prepare learners with awareness of technologies that will increasingly shape work and daily life

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