***Technology in Action Complete, 16e* (Evans)**

**Chapter 1 The Impact of Technology in a Changing World**

1) \_\_\_\_\_\_\_\_ tools gather information from sources such as e-mails, text messages, and tweets and make the information instantly and publicly available for use in emergencies.

A) Social networking

B) Crowdsourcing

C) Crisis-mapping

D) Affective computing

Answer: C

Diff: 2

Objective: 1.01 Describe various technological tools being used to impact national and global issues.

2) \_\_\_\_\_\_\_\_ tools enable people to connect and exchange ideas.

A) Affective computing

B) Social media

C) Debugging

D) Computer forensics

Answer: B

Diff: 2

Objective: 1.01 Describe various technological tools being used to impact national and global issues.

3) The gap in ease of access to the Internet and technology is known as the \_\_\_\_\_\_\_\_ divide.

A) web

B) Internet

C) digital

D) technology

Answer: C

Diff: 1

Objective: 1.02 Describe various global social issues that are being affected by technology.

4) The Next Einstein Initiative and the \_\_\_\_\_\_\_\_ Institute for Mathematical Sciences bring bright young learners and the best lecturers in the world together.

A) African

B) Computer

C) Canadian

D) Austrian

Answer: A

Diff: 3

Objective: 1.02 Describe various global social issues that are being affected by technology.

5) \_\_\_\_\_\_\_\_ results when leisure time and available tools allow us to engage in creative acts.

A) Spam

B) Distributed computing

C) Cognitive surplus

D) Affective computing

Answer: C

Diff: 2

Objective: 1.03 Describe how technology is changing how and why we connect and collaborate with others.

6) \_\_\_\_\_\_\_\_is a nickname for social media tools which allow users to contribute content easily.

A) Cognitive surplus

B) QR codes

C) Web 2.0

D) Instant Messaging

Answer: C

Diff: 2

Objective: 1.03 Describe how technology is changing how and why we connect and collaborate with others.

7) Using the Internet to get small donations from many people to start a business is called \_\_\_\_\_\_\_\_.

A) social networking

B) crowdfunding

C) crowding

D) collaborating

Answer: B

Diff: 2

Objective: 1.03 Describe how technology is changing how and why we connect and collaborate with others.

8) QR or \_\_\_\_\_\_\_\_ codes let any piece of print host a link to online information.

A) quick retention

B) quick response

C) quality response

D) quality retention

Answer: B

Diff: 2

Objective: 1.04 Summarize how technology has impacted the way we choose and consume products and services.

9) \_\_\_\_\_\_\_\_ is joining together as a group to use a specific product more efficiently.

A) Collaborative consumption

B) Crowdfunding

C) Crowdsourcing

D) Social networking

Answer: A

Diff: 2

Objective: 1.04 Summarize how technology has impacted the way we choose and consume products and services.

10) The term *computer* \_\_\_\_\_\_\_\_ describes someone who is familiar enough with computers to understand their capabilities and limitations.

A) master

B) webmaster

C) literate

D) hacker

Answer: C

Diff: 1

Objective: 1.05 Characterize computer literacy and explain why it is important to be computer literate.

11) \_\_\_\_\_\_\_\_ provides the instructions that tell a computer what to do.

A) Software

B) Hardware

C) Spam

D) Data mining

Answer: A

Diff: 1

Objective: 1.05 Characterize computer literacy and explain why it is important to be computer literate.

12) Unwanted or junk e-mail is called \_\_\_\_\_\_\_\_.

A) spam

B) spyware

C) adware

D) malware

Answer: A

Diff: 1

Objective: 1.05 Characterize computer literacy and explain why it is important to be computer literate.

13) Which of the following is *not* an example of being computer literate?

A) Knowing how to avoid hackers and viruses

B) Knowing how to maintain and troubleshoot your computer

C) Knowing how to use the web wisely

D) Knowing how to hire a programmer

Answer: D

Diff: 3

Objective: 1.05 Characterize computer literacy and explain why it is important to be computer literate.

14) Teaching Siri or the Google Assistant how to recognize your voice by reading to it is an example of \_\_\_\_\_\_\_\_.

A) perception

B) planning

C) unsupervised learning

D) supervised learning

Answer: D

Diff: 3

Objective: 1.06 Describe artificial intelligence systems and explain their main goals.

15) Which of the following is *not* a main area of research in artificial intelligence?

A) cloud computing

B) natural language processing

C) perception

D) problem solving

Answer: A

Diff: 2

Objective: 1.06 Describe artificial intelligence systems and explain their main goals.

16) \_\_\_\_\_\_\_\_ analyzes patterns in data, then uses the patterns to draw conclusions and adjust the actions of the AI system accordingly.

A) Machine learning

B) Big data

C) Neural learning

D) Cloud Computing

Answer: A

Diff: 2

Objective: 1.06 Describe artificial intelligence systems and explain their main goals.

17) Which of the following is an example of a recommendation engine?

A) An Excel spreadsheet listing all employees and their annual salaries in a random order

B) Amazon providing you a list of products similar to others you've viewed

C) Raw data from marketing questionnaires

D) A printout of all sales taken from the register at the end of the day

Answer: B

Diff: 3

Objective: 1.07 Describe how artificial intelligence and other emerging technologies are important in many careers.

18) The Turing test consists of a person asking written questions of a person and a computer. If the questioner can't tell which one of the respondents is a computer, then the computer has attained \_\_\_\_\_\_\_\_.

A) mastery

B) intelligence

C) independence

D) Turing

Answer: B

Diff: 2

Objective: 1.07 Describe how artificial intelligence and other emerging technologies are important in many careers.

19) A robot which moves and acts much like a human is a(n) \_\_\_\_\_\_\_\_.

A) empathetic agent

B) intelligent personal assistant

C) embedded operator

D) embodied agent

Answer: D

Diff: 1

Objective: 1.07 Describe how artificial intelligence and other emerging technologies are important in many careers.

20) \_\_\_\_\_\_\_\_ reality is the addition of digital information directly into our reality, either to add more detail or to remove unwanted visual effects.

A) Augmented

B) Visual

C) Assisted

D) Altruistic

Answer: A

Diff: 2

Objective: 1.07 Describe how artificial intelligence and other emerging technologies are important in many careers.

21) In medicine, 3D printing allows more stylish and less expensive designs for \_\_\_\_\_\_\_\_.

A) medicines

B) patient simulators

C) prosthetic limbs

D) clothing

Answer: C

Diff: 2

Objective: 1.07 Describe how artificial intelligence and other emerging technologies are important in many careers.

22) \_\_\_\_\_\_\_\_ replaces perceived reality with a different world.

A) Variable reality

B) Entertainment reality

C) Virtual reality

D) Alternate reality

Answer: C

Diff: 3

Objective: 1.07 Describe how artificial intelligence and other emerging technologies are important in many careers.

23) Analyzing computer systems to gather potential legal evidence is known as computer \_\_\_\_\_\_\_\_.

A) ethics

B) forensics

C) analysis

D) enforcement

Answer: B

Diff: 2

Objective: 1.07 Describe how artificial intelligence and other emerging technologies are important in many careers.

24) \_\_\_\_\_\_\_\_ behavior is *not* conforming to a set of approved standards of behavior.

A) Unethical

B) Moral

C) Legal

D) Dogmatic

Answer: A

Diff: 2

Objective: 1.08 Define ethics and examine various ethical systems.

25) Which of these is *not* a system of ethics?

A) Humanism

B) Relativism

C) Divine Command Theory

D) Utilitarianism

Answer: A

Diff: 2

Objective: 1.08 Define ethics and examine various ethical systems.

26) A set of formal or informal ethical principles an individual uses to make decisions is known as \_\_\_\_\_\_\_\_.

A) personal ethics

B) ethical system

C) relativism

D) societal ethics

Answer: A

Diff: 2

Objective: 1.09 Describe influences on the development of your personal ethics.

27) \_\_\_\_\_\_\_\_ property is work that is the result of someone's creativity and knowledge.

A) Intellectual

B) Personal

C) Collective

D) Public

Answer: A

Diff: 2

Objective: 1.10 Present examples of how technology creates ethical challenges.

28) What technology allows retailers to better respond to consumer buying patterns?

A) Data mining

B) Deep learning

C) Data warehousing

D) Data accumulation

Answer: A

Diff: 2

Objective: 1.07 Describe how artificial intelligence and other emerging technologies are important in many careers.

29) Which of the following is *not* true about deep learning?

A) It is also known as supervised learning.

B) It is a subset of machine learning.

C) It learns from mistakes.

D) It does *not* require a huge set of training data.

Answer: A

Diff: 2

Objective: 1.06 Describe artificial intelligence systems and explain their main goals.

30) Which of the following refers to the encoding of information about the world into formats that artificial intelligence systems can understand?

A) Natural language processing

B) Perception

C) Knowledge representation

D) Problem solving

Answer: C

Diff: 2

Objective: 1.06 Describe artificial intelligence systems and explain their main goals.

31) Which of the following refers to the gathering and analyzing of data in the hope of preventing future crimes?

A) Recommendation engines

B) Data mining

C) Computer forensics

D) Predictive policing

Answer: D

Diff: 2

Objective: 1.10 Present examples of how technology creates ethical challenges.

32) Crisis-mapping tools collect and analyze data from social media and create instantly available information to respond to a crisis.

Answer: TRUE

Diff: 2

Objective: 1.01 Describe various technological tools being used to impact national and global issues.

33) The digital divide is the difference between careers which depend on technology and those that depend on human intuition and analysis.

Answer: FALSE

Diff: 1

Objective: 1.02 Describe various global social issues that are being affected by technology.

34) Crowdfunding is asking for large donations from a few people.

Answer: FALSE

Diff: 2

Objective: 1.03 Describe how technology is changing how and why we connect and collaborate with others.

35) Car sharing services like Zipcar are examples of individual ownership.

Answer: FALSE

Diff: 1

Objective: 1.04 Summarize how technology has impacted the way we choose and consume products and services.

36) The AT&T Mark the Spot mobile app, which enables customers to report locations where there are gaps in service, is an example of an app which has benefitted from crowdsourcing.

Answer: TRUE

Diff: 2

Objective: 1.04 Summarize how technology has impacted the way we choose and consume products and services.

37) Electronic junk mail is considered a computer virus.

Answer: FALSE

Diff: 1

Objective: 1.05 Characterize computer literacy and explain why it is important to be computer literate.

38) You *cannot* be computer literate unless you have knowledge of higher-level computer skills, such as computer programming.

Answer: FALSE

Diff: 1

Objective: 1.05 Characterize computer literacy and explain why it is important to be computer literate.

39) Hardware refers to the programs that give instructions to the computer.

Answer: FALSE

Diff: 2

Objective: 1.05 Characterize computer literacy and explain why it is important to be computer literate.

40) Computer vision is the ability for a computer to interpret visual data as humans do.

Answer: TRUE

Diff: 2

Objective: 1.06 Describe artificial intelligence systems and explain their main goals.

41) Rules-based AI systems are expert systems which use preprogrammed algorithms to make human-like decisions.

Answer: TRUE

Diff: 1

Objective: 1.06 Describe artificial intelligence systems and explain their main goals.

42) Affective computing is a field of study focused on the managing, processing, and automatic retrieval of information.

Answer: FALSE

Diff: 2

Objective: 1.07 Describe how artificial intelligence and other emerging technologies are important in many careers.

43) Computer forensics analyzes computer systems to gather potential legal evidence.

Answer: TRUE

Diff: 1

Objective: 1.07 Describe how artificial intelligence and other emerging technologies are important in many careers.

44) Information technology is the study of managing, processing, and retrieving information.

Answer: TRUE

Diff: 1

Objective: 1.07 Describe how artificial intelligence and other emerging technologies are important in many careers.

45) Telecommunications and software development are examples of information technology careers.

Answer: TRUE

Diff: 2

Objective: 1.07 Describe how artificial intelligence and other emerging technologies are important in many careers.

46) Data warehousing is the process of searching large datasets to find patterns.

Answer: FALSE

Diff: 2

Objective: 1.07 Describe how artificial intelligence and other emerging technologies are important in many careers.

47) Deontology focuses on adherence to moral duties and morals and should apply to everyone equally.

Answer: TRUE

Diff: 2

Objective: 1.08 Define ethics and examine various ethical systems.

48) Your personal ethics are *not* influenced by your culture and religion.

Answer: FALSE

Diff: 2

Objective: 1.09 Describe influences on the development of your personal ethics.

49) Unethical and amoral behavior refer to the same set of ethical principles.

Answer: FALSE

Diff: 2

Objective: 1.08 Define ethics and examine various ethical systems.

50) Bot accounts have been used to create discord around controversial topics in many countries.

Answer: TRUE

Diff: 2

Objective: 1.01 Describe various technological tools being used to impact national and global issues.

51) Deep learning algorithms require data to be labeled correct or incorrect to work properly.

Answer: FALSE

Diff: 2

Objective: 1.06 Describe artificial intelligence systems and explain their main goals.

52) Rules-based systems are a subset of expert systems.

Answer: TRUE

Diff: 2

Objective: 1.06 Describe artificial intelligence systems and explain their main goals.

53) Machine learning requires precise programming to achieve the desired results.

Answer: FALSE

Diff: 2

Objective: 1.06 Describe artificial intelligence systems and explain their main goals.

54) A Rules-based artificial intelligence system is designed based on the rules the human brain uses to function.

Answer: FALSE

Diff: 3

Objective: 1.06 Describe artificial intelligence systems and explain their main goals.

55) Amoral behavior and unethical behavior mean the exact same thing.

Answer: FALSE

Diff: 2

Objective: 1.08 Define ethics and examine various ethical systems.

56) Unsupervised learning only works when it is exposed to a very large number of examples for it to evaluate.

Answer: FALSE

Diff: 2

Objective: 1.06 Describe artificial intelligence systems and explain their main goals.

57) The replacing of your reality with a different, digitally constructed, reality is known as virtual reality.

Answer: TRUE

Diff: 2

Objective: 1.07 Describe how artificial intelligence and other emerging technologies are important in many careers.

58) The gap in access to the Internet and technical tools among people around the world is known as the \_\_\_\_\_\_\_\_.

Answer: digital divide

Diff: 1

Objective: 1.02 Describe various global social issues that are being affected by technology.

59) \_\_\_\_\_\_\_\_ asks for small donations from a large number of people to fund a business or project.

Answer: Crowdfunding, Crowd-funding

Diff: 2

Objective: 1.03 Describe how technology is changing how and why we connect and collaborate with others.

60) Using a smartphone app to rent a bike at a kiosk or schedule a rideshare are examples of \_\_\_\_\_\_\_\_.

Answer: collaborative consumption

Diff: 3

Objective: 1.04 Summarize how technology has impacted the way we choose and consume products and services.

61) \_\_\_\_\_\_\_\_ is obtaining the opinions of many people on the quality of products or services.

Answer: Crowdsourcing, Crowd-sourcing

Diff: 2

Objective: 1.04 Summarize how technology has impacted the way we choose and consume products and services.

62) \_\_\_\_\_\_\_\_ occurs when people have the combination of leisure time and the tools to be creative.

Answer: Cognitive surplus

Diff: 2

Objective: 1.03 Describe how technology is changing how and why we connect and collaborate with others.

63) Scanning a product's \_\_\_\_\_\_\_\_ code with a smartphone can take you to online information and video content.

Answer: quick response, QR

Diff: 2

Objective: 1.04 Summarize how technology has impacted the way we choose and consume products and services.

64) The term \_\_\_\_\_\_\_\_ literate means being familiar enough with computers to understand their capabilities and limitations and knowing how to use them.

Answer: computer

Diff: 1

Objective: 1.05 Characterize computer literacy and explain why it is important to be computer literate.

65) \_\_\_\_\_\_\_\_ refers to the instructions that tell the computer what to do.

Answer: Software

Diff: 1

Objective: 1.05 Characterize computer literacy and explain why it is important to be computer literate.

66) Electronic junk mail is known as \_\_\_\_\_\_\_\_.

Answer: spam

Diff: 1

Objective: 1.05 Characterize computer literacy and explain why it is important to be computer literate.

67) Using data collected at register terminals to determine consumer buying patterns is an example of \_\_\_\_\_\_\_\_.

Answer: data mining

Diff: 2

Objective: 1.07 Describe how artificial intelligence and other emerging technologies are important in many careers.

68) \_\_\_\_\_\_\_\_ focuses on creating computer systems which perform tasks that are usually associated with human intelligence.

Answer: AI, Artificial Intelligence

Diff: 2

Objective: 1.06 Describe artificial intelligence systems and explain their main goals.

69) \_\_\_\_\_\_\_\_ is a type of AI system that understands written and spoken words and can interact with humans using language.

Answer: NLP, Natural language processing

Diff: 2

Objective: 1.06 Describe artificial intelligence systems and explain their main goals.

70) \_\_\_\_\_\_\_\_ analyzes computer systems to gather legal evidence.

Answer: Computer forensics

Diff: 2

Objective: 1.07 Describe how artificial intelligence and other emerging technologies are important in many careers.

71) \_\_\_\_\_\_\_\_ computing recognizes and simulates human emotions.

Answer: Affective

Diff: 2

Objective: 1.07 Describe how artificial intelligence and other emerging technologies are important in many careers.

72) When a person does not care about the moral consequences of his or her actions, that is known as \_\_\_\_\_\_\_\_ behavior.

Answer: amoral

Diff: 2

Objective: 1.08 Define ethics and examine various ethical systems.

73) The fact that users can now become "creators" of the web is nicknamed \_\_\_\_\_\_\_\_.

Answer: Web 2.0

Diff: 2

Objective: 1.03 Describe how technology is changing how and why we connect and collaborate with others.

74) Artificial neural networks are based on the structure of the \_\_\_\_\_\_\_\_.

Answer: human brain, brain

Diff: 2

Objective: 1.06 Describe artificial intelligence systems and explain their main goals.

75) When helpful digital visual effects are added to a user's reality, the user is experiencing \_\_\_\_\_\_\_\_ reality.

Answer: augmented

Diff: 2

Objective: 1.07 Describe how artificial intelligence and other emerging technologies are important in many careers.

76) Automated programs which retweet news stories and quotes are known as \_\_\_\_\_\_\_\_ accounts.

Answer: bot

Diff: 2

Objective: 1.01 Describe various technological tools being used to impact national and global issues.

77) The technology a self-driving car uses to know the difference between a tree and a person is known as computer \_\_\_\_\_\_\_\_.

Answer: vision

Diff: 2

Objective: 1.06 Describe artificial intelligence systems and explain their main goals.

78) \_\_\_\_\_\_\_\_ systems are computer programs that mimic the experience of human experts such as doctors

or lawyers.

Answer: Expert

Diff: 2

Objective: 1.06 Describe artificial intelligence systems and explain their main goals.

79) \_\_\_\_\_\_\_\_ involves using computers and computer networks in a subversive way to promote an agenda.

Answer: Hacktivism

Diff: 2

Objective: 1.10 Present examples of how technology creates ethical challenges.

80) \_\_\_\_\_\_\_\_ is the ability to acquire and apply knowledge and skills.

Answer: Intelligence

Diff: 2

Objective: 1.06 Describe artificial intelligence systems and explain their main goals.

81) \_\_\_\_\_\_\_\_ language processing works to develop AI systems that understand written and spoken words.

Answer: Natural

Diff: 2

Objective: 1.06 Describe artificial intelligence systems and explain their main goals.

82) When a company shows you an item for sale that you might want, but did not know existed, that company is using a(n) \_\_\_\_\_\_\_\_ engine type of artificial intelligence system.

Answer: recommendation

Diff: 3

Objective: 1.07 Describe how artificial intelligence and other emerging technologies are important in many careers.

83) \_\_\_\_behavior is behavior that does not conform to a set of approved standards of behavior.

Answer: Unethical

Diff: 2

Objective: 1.08 Define ethics and examine various ethical systems.

84) When a system can look at data and build rules on its own to decide what it is seeing, that is known as \_\_\_\_\_\_\_\_.

Answer: unsupervised learning

Diff: 3

Objective: 1.06 Describe artificial intelligence systems and explain their main goals.

85) Understanding your \_\_\_\_\_\_\_\_ will make it easier to handle situations which require ethical action.

Answer: personal ethics

Diff: 3

Objective: 1.09 Describe influences on the development of your personal ethics.

86) \_\_\_\_\_\_\_\_ is the result of someone's creativity and knowledge and usually is protected by copyrights.

Answer: Intellectual property, IP

Diff: 3

Objective: 1.10 Present examples of how technology creates ethical challenges.

87) Match each of the following terms to its meaning:

I. augmented reality

II. data mining

III. information technology

IV. spam

V. cognitive surplus

A. electronic junk mail

B. combination of leisure time and the tools to be creative

C. combination of our normal sense of the world and digital information

D. field of study focusing on the management, processing, and retrieval of information

E. searching for patterns within large amounts of data

Answer: C, E, D, A, B

Diff: 2

Objective: Multiple Objectives

88) Match each of the following terms to its meaning:

I. computer forensics

II. computer literacy

III. QR code

IV. affective computing

V. collaborative consumption

A. computing that simulates emotion

B. using computer systems to gather legal evidence

C. understanding the capabilities and limitations of computers

D. hosts a link to online information and video content in printed form

E. sharing a service or product rather than owning it outright

Answer: B, C, D, A, E

Diff: 1

Objective: Multiple Objectives

89) Match each of the following terms to its meaning:

I. crowdsourcing

II. crowdfunding

III. digital divide

IV. social media

V. crisis-mapping tools

A. facilitates exchange of ideas

B. gap between those with access to technology and those without

C. collect electronic information and instantly make the information publicly available

D. solicits small donations from a large number of people

E. used by marketers to solicit online consumer input

Answer: E, D, B, A, C

Diff: 3

Objective: Multiple Objectives