

Technology in Action, Complete, 15e (Evans et al.)

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 using TED and Google Project 10¹⁰⁰ to make technological changes in that continent.

- A) African
- B) Asian
- C) South American
- D) Australian

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) Crowdsourcing
- B) Social networking
- 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 allows users to contribute content easily and to easily connect to each other.

- 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) kickstarting
- B) crowdfunding
- C) crowdsourcing
- 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) _____ solicits online input such as product ratings from consumers.

- A) A quick response code
- B) Computer forensics
- C) Crowdsourcing
- D) Crowdfunding

Answer: C

Diff: 2

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

10) _____ 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.

11) Skype is a _____.

- A) crowdfunding app
- B) Voice over IP service
- C) Social network
- D) Wi-fi hotspot

Answer: B

Diff: 2

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

12) The term computer _____ is used to describe 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.

13) _____ 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.

14) 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.

15) All of the following are examples of being computer literate, EXCEPT _____.

- A) knowing how to avoid hackers and viruses
- B) knowing how to maintain and troubleshoot your computer
- C) knowing how to use the web efficiently
- D) knowing how to build and program computers

Answer: D

Diff: 3

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

16) 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.

17) All of the following are main areas of research in artificial intelligence, EXCEPT _____.

- A) data mining
- 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.

18) Processes information using a bottom-up approach, learning by examples rather than rote rules, similar to humans.

- A) Artificial neural networks
- B) Cloud computing
- C) Expert systems
- D) Rules-based systems

Answer: A

Diff: 3

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

19) _____ 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) Deep learning
- D) Cloud Computing

Answer: A

Diff: 2

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

20) 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 information technologies are providing career opportunities.

21) 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 information technologies are providing career opportunities.

22) A robot which moves and acts much like a human is a(n) _____.

- A) empathetic agent
- B) intelligent personal assistant
- C) turing machine
- D) embodied agent

Answer: D

Diff: 1

Objective: 1.07 Describe how artificial intelligence and other information technologies are providing career opportunities.

23) Course management software often includes intelligent personal assistants to manage _____.

- A) paperwork
- B) student interactions
- C) learning plans
- D) AI

Answer: A

Diff: 2

Objective: 1.07 Describe how artificial intelligence and other information technologies are providing career opportunities.

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

- A) Augmentative
- B) Alternate
- C) Assisted
- D) Altruistic

Answer: A

Diff: 2

Objective: 1.07 Describe how artificial intelligence and other information technologies are providing career opportunities.

25) 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 information technologies are providing career opportunities.

26) _____ replaces perceived reality with a different world.

- A) Variable reality
- B) Augmentative reality
- C) Virtual reality
- D) Alternate reality

Answer: C

Diff: 3

Objective: 1.07 Describe how artificial intelligence and other information technologies are providing career opportunities.

27) Analyzing computer systems to gather potential legal evidence is computer _____.

- A) detective work
- B) forensics
- C) analysis
- D) enforcement

Answer: B

Diff: 2

Objective: 1.07 Describe how artificial intelligence and other information technologies are providing career opportunities.

28) _____ behavior is NOT conforming to a set of approved standards of behavior.

- A) Unethical
- B) Amoral
- C) Illegal
- D) Dogmatic

Answer: A

Diff: 2

Objective: 1.08 Define ethics and examine various ethical systems.

29) 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.

30) A set of formal or informal ethical principles an individual uses to make decisions is _____.

- 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.

31) _____ 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.

32) 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.

33) The Witness Project hopes to stop _____ abuses throughout the world.

Answer: Human Rights

Diff: 2

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

34) _____ 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.

35) Using a smartphone app to rent a bike at a kiosk or schedule a ride 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.

36) _____ 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.

37) _____ means that 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.

38) 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.

39) Skype, Google Hangouts and Facetime are _____ services to make free phone or video conference calls over the Internet.

Answer: Voice over IP; VoIP; voice over internet protocol

Diff: 1

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

40) 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.

41) _____ programs are 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.

42) 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.

43) 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 information technologies are providing career opportunities.

44) _____ 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.

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

Answer: NLP, Natural Language Processing, Natural Language Processor, Natural Language Processors

Diff: 2

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

46) _____ analyzes computer systems using techniques to gather legal evidence.

Answer: Computer forensics

Diff: 2

Objective: 1.07 Describe how artificial intelligence and other information technologies are providing career opportunities.

47) _____ computing relates to recognizing and simulating human emotions.

Answer: Affective

Diff: 2

Objective: 1.07 Describe how artificial intelligence and other information technologies are providing career opportunities.

48) _____ enables production of more inexpensive and better fitting prosthetics than traditional manufacturing methods.

Answer: 3-D printing; 3D printing

Diff: 3

Objective: 1.07 Describe how artificial intelligence and other information technologies are providing career opportunities.

49) 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.

50) _____ 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.

51) A hackathon is a group of people who get together to develop a computer virus.

Answer: FALSE

Diff: 2

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

52) Civic hacking groups like Random Hacks of Kindness use technology to improve humanity.

Answer: TRUE

Diff: 2

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

53) 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.

54) 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.

55) 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.

56) 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.

57) The AT&T Mark the Spot mobile app enables customers to report locations where there are gaps in service is an example of crowdsourcing.

Answer: TRUE

Diff: 2

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

58) A computer virus is electronic junk mail.

Answer: FALSE

Diff: 1

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

59) 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.

60) 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.

61) Computer vision is that 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.

62) 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.

63) 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 information technologies are providing career opportunities.

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

Answer: TRUE

Diff: 1

Objective: 1.07 Describe how artificial intelligence and other information technologies are providing career opportunities.

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

Answer: TRUE

Diff: 1

Objective: 1.07 Describe how artificial intelligence and other information technologies are providing career opportunities.

66) Examples of information technology careers are telecommunications and software development.

Answer: TRUE

Diff: 2

Objective: 1.07 Describe how artificial intelligence and other information technologies are providing career opportunities.

67) Big Data is generated by how we use technology, today.

Answer: TRUE

Diff: 2

Objective: 1.07 Describe how artificial intelligence and other information technologies are providing career opportunities.

68) The National Center for the Analysis of Violent Crime database enables detectives to analyze information about similarities between crimes.

Answer: TRUE

Diff: 1

Objective: 1.07 Describe how artificial intelligence and other information technologies are providing career opportunities.

69) 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 information technologies are providing career opportunities.

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

Answer: TRUE

Diff: 2

Objective: 1.08 Define ethics and examine various ethical systems.

71) 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.

72) Copyrights govern ownership of real property.

Answer: FALSE

Diff: 2

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

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

- I. augmentative 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 in the Chapter

74) 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 in the Chapter

75) 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 in the Chapter