UNIVERSITY EXAMINATION FOR DEGREE IN EDUCATION, BIOLOGICAL SCIENCES, ACTUARIAL SCIENCE, SPRNM WITH IT, LOGISTICS & SUPPLY CHAIN MANAGEMENT, BUSINESS ADMINISTRATION, WATER RESOURCE & ENVIRONMENTAL MANAGEMENT

1ST YEAR 1ST SEMESTER 2022/2023 ACADEMIC YEAR
MAIN and KISUMU CAMPUS

COURSE CODE: ITB 9101
COURSE TITLE: COMPUTER ORGANIZATION AND APPLICATIONS
ONLINE EXAMINATION   TIME : 2.00 HOURS
DATE:

1. Who is the father of Computers?
    A.James Gosling
    B. Charles Babbage
    C. Dennis Ritchie
    D. Bjarne Stroustrup
    Answer is B

2. Which of the following is the correct definition of a Computer?
    A. A machine that can be programmed to perform arithmetical or logic operations
    B. Computer understands binary language which is written in the form of 0s & 1s
    C. A programmable electronic device that stores, retrieves, and processes the data
    D. All of the mentioned
    Answer is D

3. What is the full form of CPU?
    A. Computer Processing Unit
    B. Computer Principle Unit
    C. Central Processing Unit
    D. Control Processing Unit
    Answer is C

4. Which of the following language does the computer understand?
    A. Computer understands only C Language
    B. Computer understands only Assembly Language
    C. Computer understands only Binary Language
    D. Computer understands only BASIC
    Answer is C

5. Which of the following is not a characteristic of a computer?
   A. Versatility
   B. Accuracy
   C. Diligence
   D. I.Q.
   Answer is D

6. Which of the following is the smallest unit of data in a computer?
   A. Bit
   B. KB
   C. Nibble
   D. Byte
   Answer is A

7. Which of the following is responsible for converting data into a computer understandable format?
   A. Output Unit
   B. Input Unit
   C. Memory Unit
   D. Arithmetic & Logic Unit
   Answer is B

8. What is LED?
   A. Light Emitting Diode
   B. Liquid Emitting Diode
   C. Light Electronic Device
   D. Level Electric Data
   Answer is A

9. Which of the following is designed to control the operations of a computer?
   A. User
   B. Application Software
   C. System Software
   D. Utility Software
   Answer is C

10. Which of the following are physical devices of a computer?
    A. Hardware
    B. Software
    C. System Software
    D. Package
    Answer is A

11. Which of the following devices provides the communication between a computer and the outer world?
    A. Compact
    B. I/O
    C. Drivers
    D. Storage
    Answer is B

12. Which of the following service allows a user to log in to another computer somewhere on the Internet?
    A. e-mail
    B. UseNet
    C. Telnet
    D. FTP
    Answer is C

13. Which of the following is not a type of computer on the basis of functionality?
    A. Digital
    B. Analog
    C. Hybrid
    D. Remote
    Answer is D

14. The value of base in a decimal number system is _____
    A. 8
    B. 2
    C. 10
    D. 16
    Answer is C

15. Convert : $(110)_2$ to decimal = (__)$_{10}$.
    A. 4
    B. 5
    C. 6
    D. 9
    Answer is C

16. Another name for base is _____
    A. root
    B. radix
    C. entity
    D. median
    Answer is B

17. The decimal equivalent of $(0.101)_2$ will be _____
    A. 0.5
    B. 0.625
    C. 0.25
    D. 0.875
    Answer is B

18. The hexadecimal representation of 14 is _____
    A. A
    B. F
    C. D
    D. E
    Answer is D

19. Which of the following is not a decimal number?
    A. 114
    B. 43.47
    C. 99.9A
    D. 10101
    Answer is C

20. Select the incorrect option:
    A. $(101)_{10} = (1100101)_2$
    B. G is valid in hexadecimal system.
    C. C represents 12
    D. The base of a decimal number system is 10.
    Answer is B

21. What could be the maximum value of a single digit in an octal number system?
    A. 8
    B. 7
    C. 6
    D. 5
    Answer is B

22. The maximum number of bits sufficient to represent an octal number in binary is _____
    A. 4
    B. 3
    C. 7
    D. 8
    Answer is B

23. The binary number 111 in octal format is _____
    A. 6

B. 7
C. 8
D. 5
Answer is B

24. Convert the binary equivalent 10101 to its decimal equivalent.
    A. 21
    B. 12
    C. 22
    D. 31
    Answer is A

25. Which of the following is the correct representation of a binary number?
    A. $(124)_2$
    B. 1110
    C. $(110)^2$
    D. $(000)_2$
    Answer is D

26. MS-Word comes under _____
    A. Document production
    B. Graphics
    C. Databases
    D. Numerical Analysis
    Answer is A

27. An example of e-mail utility.
    A. Word
    B. Outlook
    C. Explorer
    D. Excel
    Answer is B

28. A _____ is an application that allows the user to compose and edit simple documents.
    A. Word processor
    B. Spreadsheet
    C. Email utility
    D. Browsers
    Answer is A

29. In a spreadsheet, letters are used to represent _____
    A. Cells
    B. Rows

C. Columns
D. Blocks
Answer is C

30. A numeric data analysis tool that allows us to create a computerized ledger.
    A. Word processing package
    B. Spreadsheet package
    C. Graphics package
    D. Mathematical Package
    Answer is B

31. The cell that is in use is called_____
    A. Highlighted cell
    B. Main cell
    C. Active cell
    D. Formula cell
    Answer is C

32. The placement of information within a cell at the left edge, right edge, or centered is :
    A. Indentation
    B. Placement
    C. Identification
    D. Alignment
    Answer is D

33. The effect applied to display when slides changes in slide show view is_____
    A. Slide animation
    B. Custom animation
    C. Custom transition
    D. Slide transition
    Answer is D

34. Which of the following is the best view to use when setting transition effects for all slides in a presentation?
    A. Slide sorter view
    B. Notes page view
    C. Slide view
    D. Outline view
    Answer is A

35. ARPANET stands for?
    A. Advanced Research Project Agency Network
    B. Advanced Research Programmed Auto Network

C. Advanced Research Project Automatic Network
D. Advanced Research Project Authorized Network
Answer is A

36. A network that links many different types of computers all over the world.
    A. Intranet
    B. Internet
    C. Arpanet
    D. LAN
    Answer is B

37. URL stands for?
    A. Uniform Resource Locator
    B. Uniform Research Locator
    C. Uniform Resource Link
    D. Uniform Research Link
    Answer is A

38. The technology used in optical disks is _____
    A. Reflective
    B. Refractive
    C. Laser Beam
    D. Diffraction
    Answer is C

39. Which of the following is not a type of optical disk?
    A. DVD
    B. CD
    C. WORM
    D. Winchester
    Answer is D

40. A _____ is a set of instructions which is prepared to perform a specific assignment if executed by a computer.
    A. Browser
    B. Internet
    C. Program
    D. Code
    Answer is C

41. The CISC stands for _____
    A. Computer Instruction Set Compliment
    B. Complete Instruction Set Compliment

C. Computer Indexed Set Components
D. Complex Instruction set computer
Answer is D

42. The computer architecture aimed at reducing the time of execution of instructions is _____
    A. CISC
    B. RISC
    C. ISA
    D. ANNA
    Answer is B

43. Which of these is not a medium for e-mail?
    A. Intranet
    B. Internet
    C. Extranet
    D. Paper
    Answer is D

44. Which is not a type of intellectual property?
    A. Trade secrets
    B. Trademarks
    C. Home loans
    D. Copyrights
    Answer is C

45. Which of the following can you copyright?
    A. Literary work
    B. Ideas
    C. Choreographic work
    D. Fashion
    Answer is A

46. What is the subject matter of a patent?
    A. Art
    B. Invention
    C. Goods
    D. Ideas
    Answer is B

47. Which of the following is an objective of network security?
    A. Confidentiality
    B. Integrity
    C. Availability
    D. All of the above

Answer is D

48. Which of the following is not a cybercrime?
    A. Denial of Service
    B. Man in the Middle
    C. Malware
    D. AES
    Answer is D

49. Which of the following is a type of cyberattack?
    A. Phishing
    B. SQL Injections
    C. Password Attack
    D. All of the above
    Answer is D

50. According to the CIA Triad, which of the below-mentioned element is not considered in the triad?
    A. Confidentiality
    B. Integrity
    C. Authenticity
    D. Availability
    Answer is C

51. When you use the word _____ it means you are protecting your data from getting disclosed.
    A. Confidentiality
    B. Integrity
    C. Authentication
    D. Availability
    Answer is A

52. _____ means the protection of data from modification by unknown users.
    A. Confidentiality
    B. Integrity
    C. Authentication
    D. Non-repudiation
    Answer is B

53. Which of these is not a proper method of maintaining confidentiality?
    A. Biometric verification
    B. ID and password based verification
    C. 2-factor authentication
    D. switching off the phone
    Answer is D

54. ISP is?
    A. Intranet System Processing
    B. Internet Service Provider
    C. Intelligent System Processing
    D. Intranet Service Provider
    Answer is B

55. http://www.google.com/search?q=silberschatz
    In the above URL which one is the argument which is used for processing of the URL?
    A. google
    B. google.com
    C. search
    D. q=silberschatz
    Answer is D

56. Which of the following is a type of architecture used in most modern computers?
    A. Microarchitecture
    B. Harvard Architecture
    C. Von-Neumann Architecture
    D. System Design
    Answer is C

57. Processor is fixed on the
    A. Fan
    B. Chipboard
    C. Motherboard
    D. Expansion slot
    Answer is C

58. A Processor is also known as
    A. CPU
    B. UPS
    C. UPC
    D. PUS
    Answer is A

59. RAM stands for
    A. Random Access Memory
    B. Random Analysis Memory
    C. Read Able Memory
    D. Random Available Memory
    Answer is A

60. ROM stores data
    A. Permanently
    B. Temporarily
    C. Partially
    D. None of the above
    Answer is A

61. Which is used in biometric security system?
    A. Fingerprint Reader
    B. Robots
    C. Sound card
    D. Barcode Reader
    Answer is A

62. _____is the most famous type of Operating System for personal computer
    A. Linux
    B. Unix
    C. Microsoft Windows
    D. Mac OS
    Answer is C

63. _____ key is use to write in capital letters
    A. Caps Lock
    B. Enter
    C. Backspace
    D. None of the above
    Answer is A

64. Physical or logical arrangement of a network is _____
    A. Topology
    B. Routing
    C. Networking
    D. Control
    Answer is A

65. Which network topology requires a central controller or hub?
    A. Star
    B. Mesh
    C. Ring
    D. Bus
    Answer is A

66. Data communication system spanning states, countries, or the whole world is _____
    A. LAN

B. WAN
C. MAN
D. PAN
Answer is B

67. WAN stands for _____
   A. World area network
   B. Wide area network
   C. Web area network
   D. Web access network
   Answer is B

68. Network congestion occurs _____
   A. in case of traffic overloading
   B. when a system terminates
   C. when connection between two nodes terminates
   D. in case of transfer failure
   Answer is A

69. The full form of Malware is _____
   A. Malfunctioned Software
   B. Multipurpose Software
   C. Malicious Software
   D. Malfunctioning of Security
   Answer is C

70. BIOS is abbreviated as _____
   A. Basic Input Output Server
   B. Basic Internet Output Systems
   C. Basic Input Output System
   D. Battery-based Input Output System
   Answer is C

71. Excel is a ____ program developed by Microsoft.
   A. Spreadsheet
   B. Document
   C. Data management
   D. All of the above
   Answer is A

72. What is the collection of worksheets called?
   A. Ledger
   B. Book
   C. Testbook

D. Workbook
Answer is D

73. The intersection of a column and a row in a worksheet is called ____.
   A. Box
   B. Cell
   C. Range
   D. Page Break
   Answer is B

74. Under which menu, we can insert Header and Footer on the sheet?
   A. Format
   B. Review
   C. Data
   D. Insert
   Answer is D

75. The process of removing unwanted part of an image is called
   A. Hiding
   B. Bordering
   C. Cropping
   D. Cutting
   Answer is C

76. A number of letter that appears little above the normal text is called:
   A. Superscript
   B. Subscript
   C. Supertext
   D. Toptext
   Answer is A

77. What is a Microsoft PowerPoint?
   A. Spreadsheet Program
   B. Presentation Program
   C. Database Program
   D. All of the above
   Answer is B

78. Which of the following is the file extension of the PowerPoint application?
   A. .ppt
   B. .jpg
   C. .html
   D. .doc
   Answer is A

79. Which of the following shortcut key is used to stop the slide show?
   A. Esc key
   B. Ctrl + O
   C. Ctrl + N
   D. Ctrl + K
   Answer is A

80. Which of the following is not a type of view in PowerPoint?
   A. Slide show
   B. Slide sorter
   C. Normal
   D. None of the above
   Answer is D

81. What is the slide transition?
   A. Letters
   B. Overheads
   C. Effect used to introduce slides in a slide show.
   D. Effect used to introduce images in a slide show.
   Answer is C

82. What is $100_2 + 101_2$
   A. 1001_2
   B. 1010_2
   C. 0100_2
   D. 0111_2
   Answer is A

83. Which of the following allows for both read and write operations simultaneously?
   A. ROM
   B. EROM
   C. RAM
   D. None of the above
   Answer is C

84. Which of the following memory of the computer is used to speed up the computer processing?
   A. Cache memory
   B. RAM
   C. ROM
   D. None of the above
   Answer is A

85. Which of the following is a way in which the components of a computer are connected to each other?
   A. Computer parts
   B. Computer architecture
   C. Computer hardware
   D. None of the above
   Answer is B

86. The collection of 8-bits is called as -
   A. Byte
   B. Nibble
   C. Word
   D. Record
   Answer is A

87. Which of the following memory unit communicates directly with the CPU?
   A. Auxiliary memory
   B. Main memory
   C. Secondary memory
   D. None of the above
   Answer is B

88. Which of the following is equal to 4 bits?
   A. Byte
   B. Nibble
   C. Record
   D. All of the above
   Answer is B

89. Which is the largest computer in terms of physical size?
   A. The mainframe computer.
   B. The microcomputer.
   C. The tower computer.
   D. The supercomputer.
   Answer is D

90. Which computer device below is an example of an output hardware?
   A. The keyboard.
   B. The printer.
   C. The scanner.
   D. The microphone
   Answer is B

91. Which computer device below is an example of a sound input hardware?

A. The keyboard.
B. The printer.
C. The scanner.
D. The microphone
Answer is D

92. Which is a type of monitor?
    A. LCD
    B. CRT
    C. LED
    D. All the above
    Answer is D

93. Which is an example of softcopy output?
    A. Sound
    B. Printout
    C. Scanner
    D. None of the above
    Answer is A

94. What is the shortcut for opening a file in Ms Word?
    A. Ctrl+O
    B. Ctrl+C
    C. Ctrl+V
    D. None of the above
    Answer is A

95. What is the shortcut for copying a file in Ms Word?
    A. Ctrl+O
    B. Ctrl+C
    C. Ctrl+V
    D. None of the above
    Answer is B

96. What is the shortcut for saving a file in Ms Word?
    A. Ctrl+O
    B. Ctrl+C
    C. Ctrl+V
    D. None of the above
    Answer is D

97. Which of the following means restarting a computer?
    A. Formatting
    B. Warm booting

C. Cold booting
D. None of the above
Answer is B

98. ----------------means making necessary changes to a document.
    A. Formatting
    B. Booting
    C. Editing
    D. None of the above
    Answer is C

99. Convert 45_{10} to binary.
    A. 101101_2
    B. 101010_2
    C. 111000_2
    D. 111011_2
    Answer is A

100.   UPS means
    A. Unstable Power Supply
    B. Uninterruptible Power System
    C. Uninterruptible Power Supply
    D. None of the above
    Answer is C