

**CROSS RIVER UNIVERSITY OF TECHNOLOGY,
CENTRE FOR GENERAL STUDIES
FIRST SEMESTER EXAMINATION 2015/2016 SESSION
GSS 1103: INTRODUCTION TO COMPUTER SCIENCE**

INSTRUCTIONS: Answer all questions. Fill in the correct answers on the space provided **TIME: 1Hour**

1. The first high level programming language used in the computer was
2. Microprocessor was a technology of the generation of computer.
3. generation of computer began the use of keyboard as input device.

Compute the following:

- | | Binary | Octal | Decimal | Hexadecimal |
|-----|---|---------|------------|-------------|
| 4. | 1111010_2 | ..... | ..... | ..... |
| 7. | ..... | ..... | 144_{10} | ..... |
| 10. | ..... | 324_8 | ..... | ..... |
| 13. | ..... | ..... | ..... | ABC_{16} |
| 16. | Data that cannot be sub divided is called | | | |
| 17. | and are primary memories. | | | |

Find the sum of the following:

- | | |
|---------------------------------------|-----------------------------------|
| 19. 111_2 and 10111_2 | 20. 125_8 and 161_8 |
| 21. $4A23_{16}$ and $BC91_{16}$ | 22. 11111_2 and 10001_2 |

Subtract the following:

- | | |
|---|-----------------------------------|
| 23. $7170_8 - 5776_8$ | 24. $AA23_{16} - 9B77_{16}$ |
| 25. is a device that is used to segment a large computer network into two. | |
| 26. Typically, hard disk drives employ technology as a storage mechanism? | |
| 27. is a memory chip that stores data permanently and is unchangeable. | |
| 28. A is a special message in ring topology used for transmission. | |
| 29. A collection of related programs that function together is called | |
| The internal hardware components of the central processing unit include: | |
| 30. | 31. |
| 32. | |
| 33. What does TCP/IP mean | |
| 34. Bit is the acronym for | |
| 35. We use program to look through the internet. | |

36. What is the full meaning of MODEM
37. The device that translate information from one network to another is called
38. In a computer network, the transmissions medium can be or
40. The steps in developing a computer program and it diagrammatic representation are called and respectively.
42. Telephone transmission is an example of transmission
43. In the history of computer the oldest device in computing is
44. The first calculator was built by in 1642.
45. The first large scale digital electronic computer is called
46. The first commercially available computer was
47. How many kilobytes make one byte
48. 49.
50.

Network hardware devices include the following:

51. 52.
53. 54.

Apart from computer virus, what are the other hardware threats?

55. 56.
57. 58.

In terms of purpose computer can be classified into:

59. 60.

What are the equivalents of the following human organs in a computer accordingly: Skin, Heart and Brain

61. 62.
63.

The activities involve in data processing include:

64. 65.
66.

Give four examples of expert systems software.

67. 68.
69. 70.

**CROSS RIVER UNIVERSITY OF TECHNOLOGY,
CENTRE FOR GENERAL STUDIES
FIRST SEMESTER EXAMINATION 2018/2019 SESSION
GSS 1103: INTRODUCTION TO COMPUTER SCIENCE TIME: 1 ½ Hours**

INSTRUCTIONS: Answer all questions. Fill in the correct answers on the space provided

1. A device that operates on data that are in discrete form is classified to be device.
2. The rules that governs the transmission of data in a network is called a
3. The computer has 100 percent intelligence quotient. True or False

Compute the following:

- | | Binary | Octal | Decimal | Hexadecimal |
|-----|--|------------------|-------------------|-------------------|
| 4. | ..... | ..... | 870 ₁₀ | ..... |
| 7. | ..... | 353 ₈ | ..... | ..... |
| 10. | 10110111 ₂ | ..... | ..... | ..... |
| 13. | ..... | ..... | ..... | AC9 ₁₆ |
| 16. | The name used to represent 8 adjacent bits in a computer is called | | | |
| 17. | and are the used in writing machine and assembly languages respectively. | | | |

Find the sum of the following:

- | | |
|---|---|
| 19. 111011 ₂ and 101111 ₂ | 20. 4357 ₈ and 1614 ₈ |
| 21. 4A23 ₁₆ and BC91 ₁₆ | 22. 11111110 ₂ and 10000001 ₂ |

Subtract the following:

- | | |
|--|---|
| 23. 345 ₈ – 137 ₈ | 24. A68C2 ₁₆ – 85F3C ₁₆ |
| 25. generation of computer introduced the use of the keyboard. | |
| 26. The microprocessor is associated with generation of computers? | |
| 27. ROM is a kind of computer memory that is both static and nonvolatile? True or False | |
| 28. provides a central connection point for cables from servers, clients and peripherals in a computer network. | |
| 29. A collection of a set of instruction that solves a problem is called | |
| The internal hardware components of the central processing unit include: | |
| 30. | 31. |
| 32. | |
| 33. In data storage a collection of records is known as a | |
| 34. Bit is the acronym for | |
| 35. We use to look through the internet. | |
| 36. What is the full meaning of HTTP | |

37. The device that translate information from one network to another is called
38. Analog and digital signals are of and form respectively.
40. The steps in developing a computer program and it diagrammatic representation are called and respectively.
42. Radio and transmission is an example of type of transmission

43-46 **Fill in the gaps to complete the short story about computers**

In the history of computer the oldest devices in computing was developed in 2000BC. IBM machine which is currently used was developed by In 1890. The evolution of computers led to machines such as Mark I, Mark II and electro mechanical devices developed at Harvard University by a scientist called Parallel transfer and stored program concept was developed at Institute of Advanced Study in Princeton, New Jersey by a scientist called

47. UNIVAC means

The network interface cards include

48. 49.

50.

Mention four typical hardware components of a computer network;

51. 52.

53. 54.

Mention four components of the internet?

55. 56.

57. 58.

In terms of purpose computer can be classified into:

59. 60.

What are the equivalents of the following human organs in a computer: Brain, Heart and Skin

61. 62.

63.

The activities involve in data processing include:

64. 65.

66.

Apart from computer virus, what are the other hardware threats?

67. 68.

69. 70.

**CROSS RIVER UNIVERSITY OF TECHNOLOGY,
CENTRE FOR GENERAL STUDIES
FIRST SEMESTER EXAMINATION 2017/2018 SESSION
GSS 1103: INTRODUCTION TO COMPUTER SCIENCE TIME: 1 ½ Hours**

INSTRUCTIONS: Answer all questions. Fill in the correct answers on the space provided

- . Microsoft word can be classified under _____ heading of application software.
- . _____ is a part of the computer that reads information from a disk.
- . A program that controls a computer's basic functions is called _____
- . GUI was invented in what generation of computer _____
- . Your computer suddenly shuts off and doesn't turn on after repeated attempts. What is the most likely cause _____
- . Which stage of data processing handles the entry and converting of data.
- . _____ is the smallest unit of information stored in a computer file.
- . A computer that is used by users of a network to access the server is called _____
- 0. Which network topology is suitable for the establishing fast Ethernet protocol _____
- 1. A file server should have at least _____ of RAM
- 2. _____ is a device that translates information from one network to another.
- 3. A typical E-mail address is made up of three component part _____, _____ and _____
- 4. _____ viruses change the characteristic of the computer as they infect the computer.
- 5. The earlier generations of computer was developed for _____ industries.
- 6. _____ is known as the father of Computer Science and he invented _____
- 7. _____ key on the keyboard acts as a toggle key.
- 8. The two main technology for manufacturing a computer monitor are _____ and _____
- 9. The total amount of stores information that a device can hold is known as _____
- 10. A grouping of four adjacent bits together forms _____
- 11. A translator is a _____ code that convent _____ language to _____
- 12. Forms of data storage include: _____, _____ and _____

Question 23-26 supply the generation were the following innovation took place

Q	Innovations	Generation
23.	Machine Language	
24.	Miniaturization	
25.	Intel 4004	
26.	Nanotechnology	

27. A _____ is a black ROM that can be programmed once only.
28. Bit is short for _____
29. _____ printer prints one character at a time.
30. The storage location of the memory are divided into _____
31. The types of education in which students learn by using and completing exercises with instructional software is called _____
32. A _____ convert analog signal to digital signal and vice versa during transmission.
33. _____ channel transmit information/data at the speed of light.
34. Data transmission in only one direction called _____
35. The internet uses _____ protocol
36. With _____, standard telephone line is used to connect to the internet.
37. The jargon usually for navigating on the internet is called _____
38. The process of a computer receiving information from a server on the internet is known as _____
39. In order to view pages on a website, the user needs to enter the site address called _____
40. A _____ is a mechanism which will look for information on different websites and databases distributed all over the internet.
41. Google chrome is an example of _____
42. The topology that connect all computer in the network together is called _____
43. _____ is a network that does not require a server.

Question 44-55 convert the given digit to other base on the same roll

Binary	Octal	Decimal	Hexadecimal
10111000 ₂	44. _____	45. _____	46. _____
47. _____	200 ₈	48. _____	49. _____
50. _____	51. _____	112 ₁₀	52. _____
53. _____	54. _____	55. _____	FB ₁₆

Find the sum of the following:

56. 111011₂ and 101111₂ _____
57. 4357₈ and 1614₈ _____
58. 4A23₁₆ and BC91₁₆ _____
59. 11111110₂ and 10000001₂ _____

Subtract the following:

60. 11011₂ from 11000₃ _____
61. 100100₂ from 011100₂ _____

62. _____ is refers to as the working memory/storage of the computer.
63. The computer has 100% intelligent quotient. True or False
64. One megabyte is equivalent to _____ kilobytes.
65. A collection of related programs that function together is called _____
- Apart from computer virus, what are the other hardware threats?
66. _____
67. _____
68. _____
69. _____
70. Telephone transmission is an example of _____