



GWANDA STATE UNIVERSITY

Excellence through Esprit De Corps...

FACULTY OF LIFE SCIENCES.

BSc HONOURS CROP SCIENCE DEGREE

LCS 1103 INTRODUCTION TO COMPUTER SCIENCE

FIRST SEMESTER EXAMINATION PAPER

NOVEMBER 2019.

This examination paper consists of 5 pages.

Time Allowed: 3 hours
Total Marks: 100
Special Requirements: N/A
Examiner's Name: Mr Dlamini D

INSTRUCTIONS.

1. Answer **ALL** questions in Section A.
2. Answer any **THREE** Questions in Section B. Each question in this section will carry 20 marks.
3. Do not open question paper until told to do so.

MARK ALLOCATION

QUESTION	MARKS
SECTION A	40
SECTION B	60
TOTAL ATTAINABLE MARKS	100

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Section A: ANSWER ALL QUESTIONS

1. Define the following :
 - a. Output device [1]
 - b. Computer network [2]
 - c. Operating system [1]
 - d. Information society [2]
 - e. Computer [2]
2. Distinguish between the following:
 - a. System software and Application software [1]
 - b. Mainframe computer and Super computer [1]
 - c. Firewall and Malware [1]
 - d. Hacker and Cracker [1]
 - e. Website and Search engine [1]
4. Which of the following is the language for use in the first generation electronic computer?
 - a. Natural language.
 - b. High level language.
 - c. C language
 - d. Machine code.
5. Which of the following items are part of information technologies?
 - i. Programming language
 - ii. Operating system
 - iii. Database

Answer:

 - a. (i) & (ii)
 - b. (ii) & (iii)
 - c. (i) & (iii)
 - d. (i), (ii) and (iii)
6. Which of the following operation(s) a computer is (are) able to perform?
 - i. Arithmetic operation.
 - ii. Logic operation.

Answer :

 - a. (i) only
 - b. (ii) only
 - c. (i) & (ii)
 - d. None of them
7. Data is a stream of representing event occurring in organization.
 - a. raw fact
 - b. meaningful information
 - c. information
 - d. numbers
8. Which of the following items are part of information technologies?
 - i. Digital camera
 - ii. Mobile phone
 - iii. Internet

Answer :

 - a. (i) & (ii)
 - b. (ii) & (iii)
 - c. (i) & (iii)
 - d. (i), (ii) and (iii)
9. Information is a set of data that have been shaped into a form that is
 - a. meaningless and useless to human being
 - b. meaningful and useful to human being
 - c. meaningless and useless to information systems
 - d. meaningful and useful to information systems

10. Which of the following electronic technologies is the key technology for making the first generation electronic computer?
- a. Transistor b. Integrated circuit c. Vacuum tube d. Dual Core CPU
11. What was the original use of computers?
- a. For playing game. b. For data storage. c. Computation. d. Factory automation.
12. What is the name of the first commercial computer in history?
- a. IBM System/360 b. UNIVAC c. Macintosh d. ENIAC
13. If the hardware of a computer is analog to the body of a human being, which of the following is the best description of the software.
- a. Language b. Blood c. Mind d. Neuron
14. An example of an output device is
- a. The keyboard, b. The mouse, c. The power cord, d. The monitor.
15. A device driver is:
- a. The person who delivers hardware devices to a computer store,
b. The connector that allows you to attach the device to a computer,
c. A computer program that allows the operating system to communicate with the device,
d. The power supply for the device
16. What is a computer network?
- a. A group of computers that share the same power supply
b. A computer that can be used by different users simultaneously
c. Two or more computers connected together that can share data and programs
d. Any sets of computers manufactured by the same company
17. Which of the following are executed by the BIOS (check all that applies):
- a. Memory test b. Load application software
c. Print a test page on the printer d. Load the operating system
18. Which of the following is NOT an operating system?
- a. Linux b. Microsoft Vista c. Microsoft Word d. Mac Os X
19. Which of the following is NOT an internet protocol?
- a. SMTP b. FTP c. HTML d. HTTP

20. What is a NIC?

- a. Network Interface Card
- b. Network Interference Control
- c. No Internet Connection
- d. New Infrared Controller

21. Which binary number comes right after the binary number 101001?

- a. 101002
- b. 101011
- c. 101010
- d. 101100

22. How many bits is a kilobyte? (1kilobyte=1024bytes, and 1 byte=8bits)

- a. 1000
- b. 1024
- c. 8192
- d. 8000

23. For each category on the left in the table below, provide TWO examples on the right. [8]

Category	Examples
Internet Protocols	
Operating Systems	
Application software	
Computer types	

Section B: Answer any **THREE** Questions

24. What is a Data Management System? Discuss the several types of databases common within this system. [20]

25. Write short notes on the following concepts in computer science:

i. Uses of the internet [10]

ii. The information cycle [6]

iii. Client/Server Structure of the Web [4]

26. With the profligate evolution of technology the societies around the world are changing and information has become an economic, political factor for development. Discuss the role of the library in the information society. [20]

27. Computers and their applications changed the face of most traditional occupations including agriculture. Discuss some of the ways computers have changed the conventional methods in agriculture to improve productivity. [20]