



AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF PUBLIC HEALTH, SCHOOL OF MEDICINE
DEPARTMENT OF HEALTH SYSTEMS MANAGEMENT AND DEVELOPMENT
BACHELOR OF SCIENCE IN: HEALTH SYSTEMS MANAGEMENT AND
DEVELOPMENT; COMMUNITY HEALTH, PHYSIOTHERAPY, NURSING AND
MIDWIFERY
END OF SECOND SEMESTER EXAMINATION MAY-AUGUST 2025

AIU 113 Information Communication Technology

TIME: Two Hours

Date : 15th August 2025

TIME : Two (2) Hours Start: 4.30PM-----End: 6.30 PM...

INSTRUCTIONS TO CANDIDATES

- 1) This exam is out of 70 marks
- 2) Section-A is compulsory with a Total of 30 Marks
- 3) Section B Answer all 20 Marks
- 4) Section C Answer one question 20Marks

Read carefully the additional instructions preceding each section.

SECTION A

MCQ

1. Who is considered the "father of the personal computer"?(1Mark)
 - a) Steve Jobs
 - b) Bill Gates
 - c) Ed Roberts (Altair 8800)
 - d) Tim Berners-Lee
2. Which company introduced the first commercially successful personal computer in 1977? 1Mark)
 - a) IBM
 - b) Apple (Apple II)
 - c) Microsoft
 - d) Dell
3. The IBM PC, released in 1981, used which operating system(1Mark)
 - a) macOS
 - b) Linux
 - c) MS-DOS
 - d) Windows
4. Which of the following is NOT an input device (1Mark)
 - a) Keyboard
 - b) Mouse
 - c) Printer
 - d) Scanner
5. What is the function of the CPU in a computer? (1Mark)
 - a) Process instructions and perform calculations
 - b) Store data permanently
 - c) Display graphics
 - d) Connect to the internet

6. Which component stores data temporarily while the computer is running? (1Mark)

- a) Hard Disk
- b) RAM
- c) SSD
- d) USB Drive

7. Which of the following is an example of system software? (1Mark)

- a) Microsoft Word
- b) Windows Os
- c) Google Chrome
- d) Adobe Photoshop

8. What is the main purpose of application software? (1Mark)

- a) Manage hardware resources
- b) Perform specific tasks for users (e.g., word processing, accounting)
- c) Control computer boot process
- d) Secure the computer from viruses

9. What does LAN stand for? (1Mark)

- a) Local Area Network
- b) Large Access Network
- c) Linked Area Nodes
- d) Long Antenna Network

10. Which device connects multiple computers in a network? (1Mark)

- a) Router
- b) Printer
- c) Hard Drive

d) Monitor

11. Which operating system is open-source? (1Mark)

- a) Windows
- b) macOS
- c) Linux
- d) iOS

12. What is the primary function of an operating system? (1Mark)

- a) Manage hardware and software resources
- b) Create documents
- c) Browse the internet
- d) Play multimedia files

13. Which feature in Microsoft Word allows formatting text uniformly throughout a document? (1Mark)

- a) Styles
- b) Clip Art
- c) Page Borders
- d) Word Count

14. What is the default file extension for a Microsoft Word document? (1Mark)

- a) .txt
- b) .xlsx
- c) .docx
- d) .ppt

15. Which function in Excel adds up a range of cells? (1Mark)

- a) SUM()
- b) AVERAGE()
- c) COUNT()

d) MAX()

16. What does the "VLOOKUP" function do in Excel? (1Mark)

- a) Searches for a value in a table and returns a corresponding value**
- b) Creates a chart
- c) Formats cells
- d) Inserts a pivot table

17. Which database object is used to retrieve specific data from tables? (1Mark)

- a) Form
- b) Query
- c) Report
- d) Macro

18. What is the primary key in a database? (1Mark)

- a) A password
- b) A unique identifier for each record
- c) A backup file
- d) A search filter

19. Which view in PowerPoint allows you to see all slides in a presentation at once? (1Mark)

- a) Normal View
- b) Slide Sorter View
- c) Reading View
- d) Notes Page View

20. What is the purpose of "Slide Transitions" in PowerPoint? (1Mark)

- a) Animations between slides
- b) Changing font styles

- c) Inserting hyperlinks
- d) Adding sound effects

21. Which ICT tool is most useful for managing research references? (1Mark)

- a) Zotero/Mendeley
- b) Microsoft Paint
- c) Adobe Photoshop
- d) Windows Calculator

22. What is the main advantage of using the internet for research? (1Mark)

- a) Access to vast and up-to-date information
- b) Limited distractions
- c) No need for citations
- d) Free printing

23. Which search technique helps in finding precise results in online research? (1Mark)

- a) Boolean operators (AND, OR, NOT)
- b) Using only images
- c) Avoiding keywords
- d) Searching without filters

24. How does ICT improve efficiency in workplaces? (1Mark)

- a) Automation of repetitive tasks
- b) Increasing paperwork
- c) Reducing internet usage
- d) Limiting communication

25. What is a key benefit of telemedicine in healthcare? (1Mark)

- a) Remote diagnosis and treatment

- b) Higher hospital costs
- c) Slower patient care
- d) Less reliance on doctors

26. Which of the following is a challenge in ICT communication media? (1Mark)

- a) Cybersecurity threats
- b) Unlimited bandwidth
- c) No need for training
- d) Instant global reach

27. How does ICT influence work ethics and productivity? (1Mark)

- a) Enables flexible work arrangements (remote work)
- b) Encourages manual record-keeping
- c) Reduces accountability
- d) Increases paper usage

28. What is a major role of ICT in service delivery? (1Mark)

- a) Faster and more efficient customer service
- b) Increasing bureaucracy
- c) Reducing digital access
- d) Limiting online transactions

29. What is a major financial challenge in ICT adoption? (1Mark)

- a) High initial investment costs
- b) Free software availability
- c) Low maintenance expenses
- d) No need for upgrades

30. Which of the following is a cybersecurity risk? (1Mark)

- a) Phishing attacks
- b) Unlimited cloud storage
- c) Automatic software updates
- d) Faster internet speed

31. Why is sustainability a challenge in ICT? (1Mark)

- a) E-waste and energy consumption
- b) Too many free apps
- c) Lack of innovation
- d) No government regulations

32. What does ICT compliance refer to? (1Mark)

- a) Following legal and industry standards (e.g., GDPR, HIPAA)
- b) Ignoring data privacy
- c) Using outdated software
- d) Avoiding cybersecurity measures

Section B-20 Marks

33. Match the items to make the statement correct

Column A	Column B
<ol style="list-style-type: none"> 1. Cloud Computing 2. Firewall 3. Malware 4. Bandwidth 5. Encryption 6. HTML 	<p>A. A security system that monitors and controls incoming/outgoing network traffic.</p> <p>B. The maximum rate of data transfer across a network.</p>

<p>7. URL</p> <p>8. VPN</p> <p>9. IoT (Internet of Things)</p> <p>10. Phishing</p>	<p>C. A network of physical devices connected to the internet to exchange data.</p> <p>D. A method of converting data into a code to prevent unauthorized access.</p> <p>E. A scam where attackers trick users into revealing sensitive information.</p> <p>F. A technology that allows access to stored data over the internet instead of local storage.</p> <p>G. Malicious software designed to harm or exploit devices/networks.</p> <p>H. A virtual private network that provides secure internet access.</p> <p>I. The standard markup language for creating web pages.</p> <p>J. The address used to access a resource on the internet.</p>
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Section C- 20 Marks – answer one question

31. Discuss five challenges of implementing ICT in rural healthcare systems.(20 marks)

32. Explain five ways artificial intelligence (AI) is transforming healthcare.(20 marks)

33. Analyze five roles of ICT in improving disease surveillance during pandemics. (20 marks)