



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 THIRD SEMESTER EXAMINATION DECEMBER 2025

AIU 113 Information Communication Technology

TIME: Two Hours

Date : December 2025

TIME : Two (2) Hours Start-----End.....

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-20 Marks
- 4) Section C- 20 Marks- answer any two

Read carefully the additional instructions preceding each section.

Information and Communication Technology (ICT) Examination

Section A: Multiple Choice Questions (30 Marks) one mark per question

Instructions: Choose the single best answer for each question.

1. What is the primary function of the ALU (Arithmetic Logic Unit) in a CPU?
 - a) Store data for future use
 - b) Control the flow of data between hardware
 - c) Perform mathematical and logical operations
 - d) Manage power supply to components
2. Which type of software is designed to control and manage the computer's hardware and basic operations?
 - a) Application Software
 - b) Utility Software
 - c) System Software
 - d) Programming Software
3. What does RAM (Random Access Memory) primarily provide for a computer?
 - a) Permanent storage for user files
 - b) A temporary workspace for active programs and data
 - c) A backup for the operating system
 - d) Storage for the computer's BIOS
4. Which of the following is considered the "brain" of the computer?
 - a) Motherboard
 - b) Hard Disk Drive (HDD)
 - c) Central Processing Unit (CPU)
 - d) Graphics Processing Unit (GPU)
5. The World Wide Web (WWW) was primarily invented by:
 - a) Bill Gates
 - b) Tim Berners-Lee
 - c) Steve Jobs
 - d) Mark Zuckerberg
6. Which device is essential for connecting a local network to the internet?
 - a) Switch
 - b) Router
 - c) Hub
 - d) Modem
7. What is the main purpose of a spreadsheet application like Microsoft Excel?
 - a) Creating text-based documents
 - b) Organizing, analyzing, and calculating data

- c) Designing multimedia presentations
 - d) Managing email communication
8. In a relational database, what is a 'record'?
- a) A category of information, like "Name" or "Address"
 - b) A complete set of information about a single item
 - c) A unique identifier for a table
 - d) A search tool for filtering data
9. Which feature in a presentation software like PowerPoint is used to animate the entrance or exit of elements on a single slide?
- a) Slide Transition
 - b) Custom Animation
 - c) Design Template
 - d) Slide Master
10. Which file format is typically used for a portable document that preserves its original formatting?
- a) .DOCX
 - b) .TXT
 - c) .PPTX
 - d) .PDF
11. What is the primary benefit of using a Database Management System (DBMS)?
- a) It automatically creates graphical charts.
 - b) It provides efficient data storage, retrieval, and management.
 - c) It is used for writing complex software programs.
 - d) It connects directly to the internet without a network.
12. Which of the following is an example of an ICT tool used for project management and team collaboration?
- a) Adobe Illustrator
 - b) Microsoft Teams or Trello
 - c) Windows Media Player
 - d) VLC Media Player
13. What is a key advantage of using digital communication tools in business?
- a) Increased costs for communication
 - b) Slower decision-making processes
 - c) Enhanced speed and reach of information sharing
 - d) Greater reliance on paper-based memos
14. Which term refers to the gap between those who have access to modern information technology and those who do not?
- a) Digital Divide
 - b) Bandwidth Lag

- c) Technological Disparity
 - d) Internet Inequality
15. What is a major ethical concern related to ICT?
- a) Improved data processing speed
 - b) Increased global connectivity
 - c) Data privacy and unauthorized surveillance
 - d) The invention of new software
16. How has ICT impacted the retail industry?
- a) By eliminating all physical stores
 - b) By slowing down the checkout process
 - c) Through the growth of e-commerce and online shopping
 - d) By reducing the need for product advertising
17. What does 'phishing' refer to in the context of cybersecurity?
- a) A fast internet connection
 - b) The process of updating software
 - c) A fraudulent attempt to obtain sensitive information by disguising as a trustworthy entity
 - d) A type of computer hardware
18. Which of the following is a best practice for creating strong passwords?
- a) Using your name and birthdate
 - b) Using a long combination of letters, numbers, and symbols
 - c) Using the same password for all accounts
 - d) Writing it down on a sticky note attached to your monitor
19. What is 'cloud computing'?
- a) Storing data only on a personal computer's hard drive
 - b) The delivery of computing services over the internet ("the cloud")
 - c) A type of malware that affects weather forecasting software
 - d) A network limited to a single building
20. The concept of the "Internet of Things" (IoT) best describes:
- a) A network only for laptops and smartphones.
 - b) The interconnection of everyday objects via the internet.
 - c) A specific brand of smart home devices.
 - d) The internal network of a large corporation.
21. Which of the following is a valid email address format?
- a) user@domain
 - b) user@domain.com
 - c) user#domain.com
 - d) user.domain@com
22. Which of the following is a storage device?
- a) Scanner

- b) RAM
 - c) Hard Disk Drive
 - d) Monitor
23. Which of the following is a function of presentation software?
- a) Editing videos
 - b) Creating slideshows
 - c) Managing databases
 - d) Writing code
24. What is the full form of URL?
- a) Uniform Resource Locator
 - b) Universal Resource Link
 - c) Uniform Retrieval Link
 - d) Universal Routing Locator
25. Which of the following is a benefit of using ICT in education?
- a) Increased paper usage
 - b) Limited access to resources
 - c) Interactive learning
 - d) Reduced communication
26. Which of the following is a cybercrime?
- a) Installing software
 - b) Sending emails
 - c) Hacking into systems
 - d) Using a search engine
27. What is the main function of a search engine?
- a) Store data
 - b) Display graphics
 - c) Retrieve information from the web
 - d) Manage files
28. Which of the following is a mobile operating system?
- a) Windows 10
 - b) Linux
 - c) Android
 - d) macOS
29. What is the purpose of a spreadsheet formula?
- a) To create animations
 - b) To calculate values
 - c) To write essays
 - d) To design graphics
30. Which of the following is a characteristic of cloud storage?
- a) Data is stored locally

- b) Data is inaccessible without a USB
- c) Data is stored on remote servers
- d) Data is deleted after 24 hours

Section B: Matching (20 Marks)

31 Instructions: Match the term in Column A with its correct description in Column B.

Column A	Column B
1. Big Data	A. Raw, unorganized facts and figures.
2. Firewall	B. A system that protects a network from unauthorized access.
3. Encryption	C. The process of converting data into a code to prevent unauthorized access.
4. SEO	D. The practice of increasing the quantity and quality of traffic to a website through organic search engine results.
5. IoT	E. A network of physical objects embedded with sensors and software to connect and exchange data.
6. Data	F. A field that deals with extremely large and complex datasets.
7. CRM	G. Software used to manage a company's interactions with current and potential customers.
8. ERP	H. An integrated software suite used to manage a company's core business processes.
9. VPN	I. A service that creates a secure, encrypted connection over a public network.
10. UI/UX	J. The design of user interfaces and the experience of users when interacting with a product.

Section C: Structured Essay Questions (20 Marks Each)

Instructions: Answer any TWO questions from this section. Each answer should be structured and detailed.

Question 31: E-Government

Discuss five significant impacts of ICT on modern governance (E-Government)(10Marks)

Question 32: Digital Divide

Explain five strategies that can be implemented to bridge the digital divide in developing countries. (10Marks)

Question 33: ICT in Education

Analyze five ways in which ICT has transformed teaching and learning methodologies. (10Marks)

Question 34: Artificial Intelligence

Discuss five ethical challenges associated with the rapid development and adoption of Artificial Intelligence (AI). (10Marks)

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