



AMREF INTERNATIONAL UNIVERSITY  
SCHOOL OF PUBLIC HEALTH / HEALTH SCIENCES  
END OF SEMESTER EXAMINATION DECEMBER 2024  
AIU 113 INFORMATION COMMUNICATION TECHNOLOGY

**Date** : December 2024

**TIME** : Two (2) Hours      **Start:** 4.30 PM    **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) Answer any TWO (2) questions in Section B

*Read carefully the additional instructions preceding each section.*

MCQ section A 30 marks

1. Which ICT tool is primarily used for real-time communication?
  - A) Word Processor
  - B) Spreadsheet
  - C) Video Conferencing Tool
  - D) Graphic Design Tool
  
2. What term refers to the gap between individuals who have access to digital technology and those who do not?
  - A) Terabyte divide
  - B) Digital divide
  - C) ICT divide
  - D) Information divide
  
3. Which of the following statements about ICT is TRUE?
  - A) ICT only involves hardware.
  - B) ICT includes both hardware and software components.
  - C) ICT has no impact on education.
  - D) ICT is exclusively for business applications.
  
4. Which application would you use to create a slideshow presentation?
  - A) Microsoft Word
  - B) Microsoft PowerPoint
  - C) Microsoft Access
  - D) Google Sheets
  
5. What is the main purpose of database management software?
  - A) To create documents
  - B) To store, retrieve, and manage data

- C) To perform calculations
  - D) To design websites
6. What is the primary function of web browsers like Google Chrome?
- A) To create documents
  - B) To browse and access the internet
  - C) To manage databases
  - D) To edit videos
7. What is the primary function of web browsers like Google Chrome?
- A) To create documents
  - B) To browse and access the internet
  - C) To manage databases
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8. Which of the following tools is commonly used for accessing scholarly articles and papers?
- A) Google Docs
  - B) Google Scholar
  - C) Microsoft Word
  - D) Adobe Acrobat
9. What is the primary benefit of using online surveys in research?
- A) Increased cost
  - B) Limited reach
  - C) Time efficiency and broader audience access
  - D) Complexity in data collection

Answer: C) Time efficiency and broader audience access.

10. Which platform is widely used for collaborative research and document sharing?
- A) Microsoft Excel
  - B) Dropbox

C) Google Drive

D) PowerPoint

11. What is the role of social media in research?

A) It has no role.

B) It can be used to gather public opinions and data.

C) It only serves as a distraction.

D) It is primarily for entertainment.

Answer: B) It can be used to gather public opinions and data.

12. What type of online resource provides access to a wide range of academic journals and articles?

A) Social media platforms

B) Online forums

C) Academic databases like JSTOR or PubMed

D) Personal blogs

13. Which method can researchers use to analyse large datasets available on the internet?

A) Manual counting

B) Data mining techniques

C) Handwritten notes

D) Physical surveys

14. What is the significance of using cloud storage in research?

A) It increases hardware costs.

B) It allows for easy access and sharing of data.

C) It complicates data management.

D) It limits collaboration opportunities.

15. Which online tool can be used to create questionnaires for research purposes?

A) Microsoft Paint

B) Google Forms

- C) Notepad
- D) PowerPoint

16. What is a significant issue related to data security in ICT?

- A) Enhanced data sharing
- B) Cybersecurity threats
- C) Improved data accessibility
- D) Increased data storage capacity

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18. What is one major ethical concern regarding ICT usage?

- A) Increased access to information
- B) Intellectual property theft
- C) Enhanced communication
- D) Greater transparency

19. Which challenge relates to the maintenance of ICT infrastructure?

- A) Continuous updates and upgrades required
- B) Simplified user interfaces
- C) Faster data processing
- D) Reduced operational costs

20. What is one major ethical concern regarding ICT usage?

- A) Increased access to information
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- D) Greater transparency

Section B

Short Answer Questions- 30 Marks

21. Match the networking device with its function or and Match each software application with its primary function: (6 Marks)

Column A:

1. Router
2. Switch
3. Modem
4. Microsoft Word
5. Adobe Photoshop
6. Excel

Column B:

- a) Connects different networks
- b) Connects devices within a network
- c) Converts signals for internet access
- d) Image editing
- e) Document creation
- f) Data analysis

| Column A | Column B |
|----------|----------|
|          |          |
|          |          |
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22. Outline 5 security concerns in cloud computing (5 Marks)

23. Name two prominent platforms where mobile apps can be published(4marks)

24. Outline three functions on an operating systems(6Marks)

25. Using examples classify computer application into 3 categories (9 Marks)

Section C long Answer question – 20 Marks

26 (a) Discuss the challenges associated with implementing Information and Communication Technology (ICT) in healthcare settings.

(b) Using specific examples give potential solutions to these challenges

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