

NAME.....

840/1

**COMPUTER STUDIES EXAM
PAPER I THEORY
840/1
TIME: 2HRS 30 MINUTES**

Instructions to candidates

This paper consists of three sections A, B and C.

Section A contains 20 compulsory objective type questions. Circle the correct best alternative

Section B contains structured questions. Answer all of them from the spaces provided

Section C contains three essay questions. Answer only one.

SECTION A (40 MARKS)

1. All these are data storage devices except:
A. Floppy diskette B. Control unit C. Hard drive D. Zip drive

2. A Bit is an abbreviation for:
A. Broad Image Transfer B. Basic Input Text.
C. Binary Digit. D. A Byte.

3. A computer can
A. Process data. B. Store data. C. Output information D. Perform all of the above.

4. In communication networks, the rate of how much data is moved during a certain amount of time is termed as ...
A. Wavelength B. Resolution. C. Throughput D. Transfer speed.

5. The Process of converting data into coded form (cyphertext) to prevent it from being read or understood by unauthorized people is known as:
A. Password setting. B. Encoding. C. Data Encryption. D. Data Security.

6. Which one of the following pairs of computer devices can make a functioning computer set?
- A. Systems Unit, Keyboard, Monitor C. Hard Disk, Printer, Mouse, Keyboard
 B. CPU, Keyboard, Mouse, Monitor D. Printer, Keyboard, Mouse, CPU
7. A computer user who steals information from other people's computers for bad purposes is called a
- A. Criminal B. Technologist C. Hacker D. Programmer
8. Which of the following is not a **representation** of a type of network topology?
- A. Hub B. Ring C. Bus D. Star
9. Computer withspecifications will load programs faster
- A. 100MHz B. 200GHz C. 700MHz D. 900KHz
10. Which of these factors does not affect internet speed?
- A. Band width B. Type of media C. Traffic D. World Wide Web
11. The difference between hardware and software is that hardware is
- A. Tangible while software is intangible C. Metallic while software is plastic
 B. Permanent while software is temporal D. Reliable while software is unreliable
12. An anti-virus is an example of
- A. A utility program C. One of the resources on computer available to be utilised
 B. An operating system D. An application software
13. The process of converting raw facts and figures into information is called?
- A. Data processing C. Data computing
 B. Data transformation D. Data translation
14. One advantage of a LAN is to...
- A. Enable the sharing of power source.
 B. Help in forming a link between users.
 C. Enable sharing of resources such as printers.
 D. Increase processor speed of standalone computers.
15. GUI is an acronym for:
- A. Graphical User Interface. C. General Universal Inputs.
 B. German Upper Involvement. D. Great User Internet.
16. Which of the following is necessary to run application software?
- A. Operating system C. Network Interface card

- B. Utility programs
- D. Graphical User interface

17. How many bits are in **5 (five)** bytes?

- A. 40.
- B. 32.
- C. 16.
- D. 8.

18. Which of the following is used to give commands to the computer?

- A. Input devices.
- B. Output devices.
- C. Storage devices.
- D. Processing devices.

19. Which of the following is the correct order of the units of computer memory is descending order in terms of size?

- A. Byte > Kilobyte > Bit > Gigabyte > Megabyte.
- B. Gigabyte > Megabyte > Kilobyte > Byte > Bit.
- C. Bit > Byte > Kilobyte > Megabyte > Gigabyte.
- D. Gigabyte > Kilobyte > Megabyte > Bit > Byte.

20. Which of the following is false?

- A. A Megabyte is equal to 100 kilobytes.
- B. A text document with 1,000,000 characters can fit onto a 1.4 MB floppy disk.
- C. A Gigabyte is approximately 1000 Megabytes.
- D. A byte is a combination of 8 BInary digiTS (bits).

SECTION B (60 MARKS)

21. (a) (i) What is an ISP in full? *(01 mark)*

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(ii) State the three use of an ISP. *(03 marks)*

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(b) (i) Mention **three** advantages of using email as a means of communication *(03 marks)*

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(ii) Outline **three** limitations of using Email as means of communication. *(03 marks)*

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22. (a) Describe the terms below as used in computer studies: (10 marks)
- (i) Multi-tasking.
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 - (ii) Data Entry.
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 - (iii) Information.
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 - (iv) Artificial intelligence.
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 - (v) Byte.
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23. (a) What is a **computer network**? (02 marks)
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(b) Mention **three** network types you know. (03 marks)
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(c) List any **fix** network media. (05 marks)
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24. (a) What is a computer? (02 marks)
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(b) Mention five areas where computers can be used/applied in our society today (05 marks)
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(c) Mention any **three** measures that should be taken to ensure safety of computers.
(03 marks)

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25. (a) Mention any **three** characteristics of computer software. (03 marks)

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(b) Define ‘**system software**’. (01 marks)

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(c) Name the **three** categories of system software giving an example in each case.

(06 marks)

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26. (a) Differentiate between **Encoding** and **Decoding** as used in computer communication.

(04 marks)

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(b) Mention any six advantages of computer networks over standalone computers.

(06marks)

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SECTION C (20 MKS)

Answer only one question from this section. Answer to this question must be done on the answer booklet provided.

27. Discuss the view that ‘internet is a necessary evil’ (20 marks)
28. a) A computer system comprises of hardware, software, user, data and communication. With **examples**, describe **each** of the components. (20 marks)
29. (a) Outline the advantages of networking over stand alone computers (08 marks)
- (b) Using illustrative diagrams, describe the various forms of LAN topologies. (12mark)

END