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INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY
STANDARD LEVEL
PAPER 1

Thursday 9 November 2000 (afternoon)

1 hour

INSTRUCTIONS TO CANDIDATES

• Do not open this examination paper until instructed to do so.
• Answer all the questions.
• For each question, choose the answer you consider to be the best and indicate your choice on the answer sheet provided.

1. Which task is best done by a human rather than a computer?

    A.   Identifying all of the books in the library which contain information about the Internet

    B.   Performing calculations in a company's budget

    C.   Analysing the artistic style of a famous painter

    D.   Collecting vast amounts of weather data in a particular location

2. Which situation(s) describe(s) a person acting in a responsible way?

    I.   An end user decides to use the demo version of an upgraded program to test its new features.

    II.   A network administrator purchases a single user licence for a software package and installs it on the network server.

    III.   A librarian in a town gives information to a local garden shop about all library users who have taken out books on gardening.

    A.   I only

    B.   I and II

    C.   II and III

    D.   I, II and III

3. Which statement describes the nature of information on the Internet?

    A.   Information on the Internet is not always factually correct.

    B.   Information on the Internet is free from copyright.

    C.   Information on the Internet is available to everyone.

    D.   Information is placed on the Internet only by knowledgeable persons.

4. Computer devices should be ergonomically designed to reduce health risks. Who is responsible for health problems which are caused by the constant use of computers?

       I.   Employers

       II.   Users

       III.   Designers

   A.   I only

   B.   I and II

   C.   II and III

   D.   I, II and III

5. Which statement describes a situation where computers are commonly used instead of humans?

   A.   Immediately translating a speaker's spoken words into another language

   B.   Evaluating works of art

   C.   Industrial applications such as welding, fitting parts or painting of products

   D.   Making legal decisions

6. What is the limitation of using ASCII code?

   A.   Spelling checkers and thesauruses cannot be used.

   B.   ASCII code defines 128 characters or less.

   C.   ASCII code changes with fonts, size and style of characters.

   D.   The justification and indentation of text is not possible.

7. Why do users upgrade their software?

    A. The warranty period has expired.

    B. Upgraded software is always free.

    C. The copyright agreement states that they have to upgrade their software.

    D. Upgraded software provides new features.

8. Many children enjoy playing computer games. Which situation describes an ethical consideration for parents?

    A. The interest in electronic games has promoted the development of graphics, animation and sound.

    B. Some electronic games have violent actions.

    C. Internet games have allowed players to play globally with other players.

    D. Electronic games are expensive.

9. Which situation(s) involve(s) an ethical issue?

    I. A supervisor uses the network to check on the rate of work of employees without their knowledge.

    II. A student is addicted to using the Internet.

    III. Considerable amounts of money are lost by companies due to software piracy.

    A. I only

    B. I and II

    C. II and III

    D. I, II and III

10. What does it mean when software is called "Windows compatible"?

    A.   The software can be run on computers using a specific operating system.

    B.   Any computer hard disk can store the software.

    C.   The software is developed by a PC manufacturer.

    D.   The software is sold by a PC manufacturer.

11. "The company will not be held responsible for the loss of data or any damage due to the use of this software product." Which document in the software package is the most likely source of this statement?

    A.   The registration card

    B.   The Quick Start Command Reference card

    C.   The copyright agreement

    D.   The warranty

12. Which action(s) help(s) a person to protect their right to privacy?

    I.   Understanding how the personal information requested on forms will be used

    II.   Being cautious in providing address information for mailing lists

    III.   Asking which people have access to their personal data

    A.   I only

    B.   I and II

    C.   II and III

    D.   I, II and III

13. What is the main advantage of computer aided learning?

A. Less class discussion

B. Low cost of software and hardware

C. Individualised learning

D. Less interaction with other students

14. A major responsibility for a network administrator is security. Which statement does **not** describe an acceptable security procedure?

A. Application programs are encrypted.

B. Users back up data from the network file server on their desktop computer.

C. The network must be accessed by using a password.

D. Sensitive data is encrypted.

15. Which method of processing photographs may result in images that are no longer a picture of something that really existed?

A. The photographs are scanned into a computer and saved digitally on a hard disk.

B. The photographs are saved as 72 dpi instead of 300 dpi.

C. The photographs are digitised and edited using an image editing programme.

D. The photographs are saved in PICT or BMP format.

16. The following required minimum specifications appear on a box of new software:

100 MHz processor
16 Mb RAM
40 Mb hard disk

Which computer would **not** be able to run this software?

A.   100 MHz computer   16 Mb RAM   65 Mb hard disk space remaining

B.   90 MHz computer   32 Mb RAM   120 Mb hard disk space remaining

C.   200 MHz computer   32 Mb RAM   1.5 Gb hard disk space remaining

D.   400 MHz computer   96 Mb RAM   3 Gb hard disk space remaining

17. What is another name for the individual picture elements on a computer screen?

A.   Bytes

B.   Tracks

C.   Sectors

D.   Pixels

18. What does RAM refer to?

A.   The memory of the computer

B.   The size of the hard disk

C.   The speed of the computer

D.   The storage space on a diskette

19 What is the technique used by an inkjet printer?

    A. Data from the computer is converted into a beam of light.

    B. Characters are created by pressing pins against a printer ribbon.

    C. The process is similar to a photocopier.

    D. Characters are formed by spraying drops of colour onto the page.

20. Which device is used for output?

    A. Scanner

    B. Bar Code Reader

    C. Robotic arm

    D. Touch screen

21. Which statement defines "integrated software"?

    A. The operating system of the computer

    B. Software which combines different applications in one product

    C. A word processor which can import graphics files

    D. A Web browser

22. A photo-editing program is used in publishing a professional medical research report. What would be the use of this program in preparing the report?

    A. To lay out the pages of the report

    B. To modify the images to make the graphics more artistic

    C. To record statistical data about the images for the report

    D. To present accurate photographic evidence to support the research

23. Which feature(s) of a computer system would enhance the performance of a fast-moving game with a life-like animation?

       I.   Fast processing speed

       II.   Large amount of RAM

       III.   Large amount of storage space

   A.   I only

   B.   I and II

   C.   II and III

   D.   I, II and III

24. Information kiosks are found in areas where tourists require information about hotels, banks, shopping and sightseeing. Which input device is usually found in this situation?

   A.   Touch screen

   B.   Joystick

   C.   Monitor

   D.   Keyboard

25. Personal Digital Assistants (PDA), Palmtops and other small computing devices are increasingly replacing paper organisers. Which features are used in many of these portable devices?

       I.   Input includes keyboard and/or stylus

       II.   Graphical user interface

       III.   Text processors, calendars, address books and spreadsheets

   A.   I only

   B.   I and II

   C.   II and III

   D.   I, II and III

26. In which situation may file defragmentation on a hard disk be needed?

    A.   Removing a virus

    B.   Installing a password security system

    C.   Making programs run faster

    D.   Compressing a file

27. Which method(s) can be used to keep data secure?

    I.   Password access

    II.   Encrypted files

    III.   Limiting physical access

    A.   I only

    B.   I and II

    C.   II and III

    D.   I, II and III

28. It is important to be able to transfer data between applications and between computers. Which file format allows the appropriate exchange of data in the specific type of application?

    A.   RTF or ASCII for word processing

    B.   JPG (JPEG) and GIF for databases

    C.   GIF and ASCII for spreadsheets

    D.   RTF or ASCII for multimedia

29. An ITGS student searches the World Wide Web to find information for one of her portfolio pieces. She finds a Web site which contains a suitable essay which scored 19 out of 20. Which situation describes an acceptable use of this information?

    A.   Submitting the essay from the Web site, with no changes

    B.   Submitting her own essay, using the Web site as a resource

    C.   Submitting the essay from the Web site after minor editing

    D.   Submitting the essay from the Web site if she uses a spelling checker first

30. Today's telecommunication technology permits many employees to stay at home and work. Which outcome is expected as a result of this practice?

    A.   Increased contact with fellow employees

    B.   Increased technical support for the homeworker

    C.   Reduced number of automobile commuters

    D.   Increased cost of conducting business

31. What is the main purpose of video conferencing?

    A.   Video conferencing is used as a replacement for inter-office mail systems so that employees can see and hear one another.

    B.   Video conferencing allows people in different parts of the world to exchange information without being physically together in the same room.

    C.   Video conferencing is used in office networks to monitor the work habits of employees.

    D.   Video conferencing is used as an archiving system for meetings.

32. Transportation and navigation systems often use GPS (Global Positioning Systems). What is a consequence of this technology?

    A.   Improvement in long range weather predictions

    B.   Location information is readily available

    C.   Better use of environmental resources

    D.   Fewer conflicts or wars between nations

33. What can a user do with an Internet search engine?

    A.   Send e-mail.

    B.   Retrieve files from a remote computer.

    C.   Fill out a form with personal information.

    D.   Find links to information on a specific topic.

34. New developments in Information Technology have led to an increase in the number of people having their own personal Web site. What has allowed this to happen?

    A.   A decrease in the number of commercial Web sites

    B.   An increase in the number of Professional Web page developers

    C.   The availability of Web browsers

    D.   Internet Service Providers offering services (Web space) at little or no charge

35. Many people now use e-mail as a common method of communication. What is the cause for the increase in the use of e-mail?

    A.   It is more reliable than fax

    B.   It is faster than posting a letter

    C.   It is a free service available to everyone

    D.   It is more personal than a handwritten letter

36. The increasing use of information technologies in organisations and institutions has lead to a change in nature of jobs. Which statement does **not** describe the effect that this has had on employees?

    A.   Many employees have been able to work from their homes and access files by using a modem.

    B.   Employees have been faced with the challenge of learning how to use the new technologies.

    C.   Employees have a wide range of new occupational opportunities available to them within the organisation.

    D.   Many jobs involving human opinion, analysis and interpretation have been replaced by information technology.

37. Schools have an agreement which students and their parents sign as part of permitting access to the World Wide Web and e-mail. In which situation could it be regarded as an acceptable reason for the school to access the student's e-mail files?

    A.   The school believes that the student is misusing the system.

    B.   The student has been disciplined previously for an unrelated issue.

    C.   The school believes the student has been sending attached files to e-mails.

    D.   The student is younger than 16.

38. Which ethical responsibilities should be observed by Web page designers?

    A.   All Web pages are created using HTML

    B.   Photographs are the best quality possible

    C.   Information should be reliable and correct

    D.   All information is available with no copyright restrictions

39. What is the main function of a firewall?

    A.   To prevent unwanted users from accessing a network

    B.   To allow faster transfer of data between an intranet and the Internet

    C.   To back up files from the network server

    D.   To connect one type of network to another type of network

40. Which of the following describes an intranet?

    A.   A local Internet within a country

    B.   A network which uses Internet protocols only from within an organisation

    C.   A network consisting of many physical networks

    D.   A faster version of the Internet