

**INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY
STANDARD LEVEL
PAPER 1**

Tuesday 12 November 2002 (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. What extra facility is needed to add mail merge to word processed letters?
 - A. A laser printer with memory
 - B. An integrated package
 - C. A utility program allowing the importing of RTF files
 - D. A database file of names and addresses

2. Which method of obtaining images for a school newspaper has ethical implications?
 - I. The newspaper editor imports a map taken directly from the Internet.
 - II. The sports editor scans a picture from a magazine.
 - III. The graphics editor takes a photograph of a school computer.
 - A. I only
 - B. I and II only
 - C. II and III only
 - D. I, II and III

3. What feature of a spreadsheet makes it ideally suited to the construction of financial models?
 - A. Video clips can be incorporated in some cells.
 - B. Data can be validated easily by the use of a customised macro.
 - C. Formulae allow the effect of a change of variable to be seen easily.
 - D. Three-dimensional images can be created from the model.

4. Which system would locate a lost person equipped with the appropriate signal sending devices?
- A. Geographical Information System (GIS)
 - B. Global Positioning System (GPS)
 - C. Computer simulation system
 - D. Robotics system
5. What is the name for a computer which provides software and resources to other computers over a network?
- A. Supercomputer
 - B. Server
 - C. Terminal
 - D. Mainframe
6. Which application program is used by computers for producing a variety of reports from stored information?
- A. Multimedia
 - B. Spreadsheet
 - C. Telecommunications
 - D. Database

7. Which statement describes a characteristic of current notebook computers?
- A. They are cheaper than desktop computers with the same capabilities.
 - B. They are capable of wireless access to networks.
 - C. They are unable to access Internet services.
 - D. They are unable to run the same applications as desktop computers.
8. Which program is triggered to act when it detects a particular sequence of events or after a certain amount of time has elapsed?
- A. Virus
 - B. Trojan horse
 - C. Worm
 - D. Logic bomb
9. Which task is best done by a human rather than a robot?
- A. Welding automotive parts on an assembly line
 - B. Diving to the deepest parts of the ocean to look for airplane wreckage
 - C. Making a rapid decision in a dangerous situation
 - D. Searching for land mines
10. What process in artificial intelligence is used to distinguish a cat from a dog?
- A. Pattern recognition
 - B. Query
 - C. Bit-mapping
 - D. Turing Test

11. Which protocol is used so that a cellular phone can access the World Wide Web?
- A. Telnet
 - B. Wireless application protocol (WAP)
 - C. Hypertext transfer protocol (http)
 - D. File transfer protocol (ftp)
12. Which application attempts to replicate, as accurately as possible, a real world event, behaviour or condition on a computer?
- A. Multimedia
 - B. Simulation
 - C. Model
 - D. Database Management System
13. Which is an advantage for staff in an office of using an Intranet?
- A. All staff can have access to up-to-date information.
 - B. All staff can use the same application simultaneously.
 - C. Each staff member will be able to store their files on the hard disk of the server.
 - D. All staff will be able to use email to contact business associates in other countries.
14. What is an advantage of word processors compared to text editors?
- A. Word processors can read ASCII files while text editors cannot.
 - B. Word processors can format text while text editors cannot.
 - C. Word processors can save text files while text editors can only read text files.
 - D. Word processors can copy and paste text while text editors cannot.

- 15.** Which one permits users to browse through online collections of software and files and download them to their own computer?
- A. File transfer protocol
 - B. Emulation software
 - C. Data compression software
 - D. Client/server model
- 16.** Which name is given to the illegal duplication of copyrighted software?
- A. Software espionage
 - B. Plagiarism
 - C. Software piracy
 - D. Hacking
- 17.** Which field is devoted to making computers reason and act in ways previously reserved for human beings?
- A. Gaming
 - B. Virtual reality
 - C. Robotics
 - D. Artificial intelligence
- 18.** Which statement describes a situation where a computer simulation is used?
- A. Playing chess against a human opponent
 - B. Posting a message to a news group on the Internet
 - C. Publishing an electronic book on the Internet
 - D. Predicting the path of a hurricane based on real data

19. Which precaution would help to protect a person's privacy?
- A. Installing a virus checker
 - B. Regularly defragmenting the hard disk containing personal data
 - C. Registering with the government any database containing personal information
 - D. Saving photographs of individuals in JPG (JPEG) format
20. Which security system uses voice prints, fingerprints, retinal scans, or other measurements of body characteristics?
- A. Global Positioning System
 - B. Biometrics
 - C. Ergonomics
 - D. Firewall
21. Which statement describes an effect of the use of robotics in industry?
- A. Teleworking has increased.
 - B. Productivity has increased.
 - C. Jobs involving the supervision of automated processes have been eliminated.
 - D. Jobs involving human opinion and interpretation have been eliminated.
22. What is the advantage of presenting information in a desktop publishing document rather than on a web page?
- A. Higher quality layout
 - B. Greater access by readers
 - C. Reduction in the use of paper
 - D. Impossibility of plagiarising information

- 23.** Which precaution would help eliminate an error in a database entry?
- A. Verifying data
 - B. Upgrading the application software to the newest version
 - C. Installing surveillance software on employees' computers
 - D. Regular backup of the data
- 24.** Which document in the software package is used by the manufacturer to collect the serial number from the customer?
- A. Registration card
 - B. Warranty
 - C. Copyright Licence
 - D. Quick Start Command Reference Card
- 25.** Which formula gives a spreadsheet logical decision-making capability?
- A. SUM
 - B. IF
 - C. AVG
 - D. MAX
- 26.** What type of scanner looks and works like a photocopy machine?
- A. Drum scanner
 - B. Hand-held scanner
 - C. Sheet-fed scanner
 - D. Flatbed scanner

27. The images on a monitor are composed of tiny dots. What is the name of these dots?
- A. Pixels
 - B. Digitisers
 - C. Resolution
 - D. Cells
28. Which one is a sequential access medium?
- A. CD-ROM
 - B. Tape
 - C. Hard disk
 - D. ROM
29. When creating web pages, which description applies to the use of photos taken with a digital camera?
- A. Several digital photos can be merged into one photo using image editing software.
 - B. Digital cameras provide 300 dpi images which are required for web pages.
 - C. Digital photos are saved in TIFF format.
 - D. Only coloured digital photos can be displayed on a web page.
30. Which application can be used to create and format web pages?
- A. Draw program
 - B. Database
 - C. Text editor
 - D. Animation program

31. What is the technical term for the process of finding and removing errors from programs?
- A. Upgrading
 - B. Error correction
 - C. Verification
 - D. Debugging
32. An interactive information system is available at each seat on certain airlines. What would be the appropriate human-computer interface in this situation?
- A. The passenger controls the multimedia presentation by voice input.
 - B. The passenger uses a mouse for accessing the Internet.
 - C. The passenger uses a built-in control panel to view the multimedia presentation.
 - D. The passenger uses a graphics tablet to view the slide show presentation.
33. Which statement applies to domain names on the Internet?
- A. The domain name *www.buyhere.com* can be allocated to two different companies.
 - B. Files can be downloaded directly from any computer which hosts the web site beginning with *www*.
 - C. Domain names are allocated by each country and not controlled by any world wide organisation.
 - D. Domain names are associated with a unique number sequence which is stored in the system of the user's computer.
34. What is good advice to give children to ensure their personal safety when they use the Internet?
- A. Do not use the Internet for long periods of time.
 - B. Use only sites which are graphics-based and not text-based.
 - C. Never give personal information such as name and address.
 - D. Always back up any data which is downloaded from the Internet.

35. What is the name given to employees who use a company network to work from home?
- A. Network commuters
 - B. Extranet commuters
 - C. Distributed commuters
 - D. Telecommuters
36. What is the major difference between a compressed file and its original?
- A. The original file consumes more hard disk space.
 - B. The original file can be sent faster as an attachment in an email.
 - C. A text file which has been compressed loses information.
 - D. Once a file has been compressed it cannot be decompressed.
37. Which statement is true about virus detection programs?
- A. Virus detection programs detect all viruses.
 - B. Virus detection programs only check the hard disk for viruses.
 - C. Virus detection programs must be periodically updated to detect new viruses.
 - D. Virus detection programs are public domain.
38. Which action describes an invasion of privacy?
- A. A hotel manager recording information from guests' passports
 - B. Government agencies using payroll information for tax purposes
 - C. A magazine subscriber receiving unsolicited advertisements as emails
 - D. An employee downloading a virus from an email attachment

39. The entry 'Mozart Vienna' is entered in the search field in a search engine. Which statement describes the results of the search?



The image shows a search engine interface. It consists of a rectangular search box with a light gray background and a thin border. Inside the search box, the text "Mozart Vienna" is entered. To the right of the search box is a button with the word "Search" written on it in a bold, sans-serif font. The button has a slightly darker gray background and a thin border.

- A. All web pages containing both words 'Mozart' and 'Vienna'
 - B. All web pages containing either the word 'Mozart' or 'Vienna' or both
 - C. All web pages containing either the word 'Mozart' or 'Vienna' but **not** both
 - D. All web pages containing the word 'Mozart' but not 'Vienna'
40. What is the type of software licence which empowers a school to install software on all of its computers in a given location?
- A. Multiple user licence
 - B. Single user
 - C. Site licence
 - D. Lab licence
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