

<p>ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව          Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka          இலங்கைப் பரீட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம்          Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka</p>	<p><b>99 E I</b></p>
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 கல்விப் பொதுத் தராதரப் பத்திர (சாதாரண தர)ப் பரீட்சை, 2007 டிசெம்பர்  
 General Certificate of Education (Ord. Level) Examination, December 2007

<p>තොරතුරු හා සන්නිවේදන තාක්ෂණය I          தகவல், தொடர்பாடல் தொழினுட்பவியல் I  <b>Information &amp; Communication Technology I</b></p>	<p>I          I  <b>One hour</b></p>
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- Note:** (i) Answer all questions.  
 (ii) In each of the questions 1 to 40, pick one of the alternatives (1), (2), (3), (4) which you consider as correct or most appropriate.  
 (iii) Mark a cross (X) on the number corresponding to your choice in the answer sheet provided.  
 (iv) Further instructions are given on the back of the answer sheet. Follow them carefully.  
 (v) After answering Paper I and Paper II tie the two sets of answer scripts together and hand over.

- Which of the following is considered as raw data?
  - Marks obtained by a student in a class.
  - Sorted list of marks obtained by students in a class.
  - Maximum marks obtained by students in a class.
  - Average marks obtained by students in a class.
- First generation (1G/1Gen) computers were based on
  - vacuum tubes.
  - transistors.
  - integrated circuits.
  - microprocessors.
- The most general term used to describe the physical components of a computer is
  - software.
  - hardware.
  - firmware.
  - liveware.
- The part of a computer that processes instructions, performs calculations, makes logical decisions and manages the flow of data through the computer system is known as
  - hard disk.
  - RAM.
  - data bus.
  - CPU.
- Consider the following statements.
 

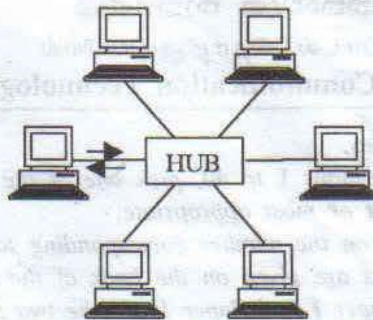
A - Keyboard is an input device.  
 B - Monitor is an output device.  
 C - Compact disk is a storage device.

 Which of the above is/are true?
  - A only
  - B only
  - A and C only
  - All A, B and C
- Under which of the following categories is a laptop computer classified?
  - Microcomputer
  - Minicomputer
  - Mainframe
  - Supercomputer
- The main purpose of using an Uninterruptible Power Supply (UPS) in a computer system is to
  - provide backup power in the case of a mains power failure.
  - protect the computer system from lightning.
  - provide (Direct Current) DC power to the computer circuitry.
  - charge the internal battery of the computer.
- The clock rate of a CPU of a modern Personal Computer (PC) is usually expressed in
  - GHz (gigahertz).
  - Mbps (megabits per second).
  - GB (gigabytes).
  - IPS (Instructions Per Second).

9. Which of the following statements is **incorrect** regarding the computer memory?
- (1) Memory refers to the primary memory or internal memory of the computer.
  - (2) It holds data & program instructions for processing.
  - (3) If the electrical power is cut off then the stored data & instructions will be lost.
  - (4) It is the place where arithmetic and logic operations are done.

10. A computer network which is limited to a small area is known as a
- (1) LAN.
  - (2) WAN.
  - (3) VAN.
  - (4) MAN.

11. What is the topology of the computer network shown in the following diagram?
- (1) Bus
  - (2) Star
  - (3) Ring
  - (4) Tree



12. Microsoft Windows XP is an example of a/an
- (1) applications software.
  - (2) systems software.
  - (3) systems utility.
  - (4) Graphical User Interface (GUI).

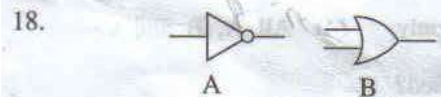
13. How many bytes are there in a kilobyte?
- (1) 8
  - (2) 1000
  - (3) 1024
  - (4) 1048

14. Which of the following statements are true?
- A - A bit is the smallest unit of information that a computer can process.
- B - A byte is the smallest unit of information that a computer can process.
- C - A bit contains 8 bytes.
- D - A byte contains 8 bits.
- (1) A and C
  - (2) A and D
  - (3) B and C
  - (4) B and D

15. The decimal equivalent of  $1010_2$  is
- (1) 5
  - (2) 6
  - (3) 10
  - (4) 12

16. The binary equivalent of decimal 15 is
- (1) 1001
  - (2) 1100
  - (3) 1111
  - (4) 10101

17. Which of the following has the least value?
- (1)  $45_{10}$
  - (2)  $11000_2$
  - (3)  $37_8$
  - (4)  $1A_{16}$



In digital logic, the above symbols A and B respectively represent the gates

- (1) NOR and AND.
- (2) NOR and OR.
- (3) OR and NOR.
- (4) NOT and OR.

19. The following is a truth table of a certain logic gate that has two inputs A, B and an output F. The logic gate is
- (1) OR.
  - (2) AND.
  - (3) NOR.
  - (4) NAND.

A	B	F
0	0	0
0	1	0
1	0	0
1	1	1

20. Which of the following statements is/are true regarding an Information System?  
 A - Applications software converts data into information.  
 B - Systems software controls hardware.
- (1) A only                      (2) B only                      (3) A and B                      (4) None of the above
21. Which one of the following operations can be used to move Text and Graphics in application programs working under the Windows operating system?  
 (1) Cut and Paste.              (2) Cut and Copy.              (3) Delete and Move. (4) Erase and Insert
22. What is true regarding the preparation of a document using the Microsoft Word package?  
 (1) When typing a document it is necessary to press Enter Key at the end of each line.  
 (2) Text can be inserted only by creating a text box.  
 (3) Different pages of a document can be set to different paper sizes.  
 (4) Different types of text formatting operations such as changing colour can be used.
23. In Microsoft Word, which of the following keyboard shortcuts are used to Cut and Paste respectively.  
 (1) ctrl + X and ctrl + V                      (2) ctrl + A and ctrl + P  
 (3) ctrl + S and ctrl + V                      (4) ctrl + C and ctrl + P
24. Which of the following software facilitates both sorting and analyzing of data?  
 (1) Word processing                      (2) Internet browser  
 (3) Spreadsheet processing                      (4) Presentation graphics
25. What function in Microsoft Excel is used to find the lowest value in a range of cells?  
 (1) =max()                      (2) =min()                      (3) =lower()                      (4) =floor()

26. The following figure shows a part of a Microsoft Excel Spreadsheet. Which of the following can be used to add the given values 10, 20 and 30?

	A	B	C
1	10		
2	20		
3	30		
4			
5			

- A. = SUM(A1:A3)  
 B. = A1 SUM A2 SUM A3  
 C. = A1 + A2 + A3  
 D. = SUM(A1,A2,A3)

- (1) A Only                      (2) A and B Only                      (3) A and C Only                      (4) C and D Only
27. What is the type of Microsoft Excel chart represented by the given diagram?

- (1) Column chart  
 (2) Bar chart  
 (3) Pie chart  
 (4) Line chart



28. An example of a key field in a Table which contains data of patients in a hospital would be  
 (1) Date of admission                      (2) Admission number  
 (3) Name                      (4) Address
29. Which data type is appropriate to represent a telephone number (e.g. 012 3456789 ) in Microsoft Access?  
 (1) Text                      (2) Byte                      (3) Memo                      (4) Integer
30. Which of the following problems have been solved by Computer Networks in an office environment?  
 A - Difficulty in sharing of resources.  
 B - Data redundancy.  
 C - Cost of communication.
- (1) A and C only                      (2) A and B only                      (3) B and C only                      (4) All A, B and C

31. An error in a computer program is referred to as a  
 (1) syntax. (2) bug. (3) debug. (4) virus.
32. Which one of the following is false about Visual Basic (VB)?  
 (1) There is no significant difference between early versions of the BASIC programming language and Visual Basic.  
 (2) It enables you to create Graphical User Interfaces (GUI) to Windows applications.  
 (3) It is event-driven.  
 (4) It provides facilities to handle databases.
33. Private Sub Form\_Load()  
 Show  
 For i = 1 To 10 Step 2  
 Print i;  
 Next i  
 End Sub  
 The output of the above Visual Basic code is  
 (1) 0 0 0 0 0 (2) 1 3 5 7 9 (3) 3 5 7 9 (4) 2 4 6 8 10
34. Which of the following is false about the Internet?  
 (1) Nobody owns the Internet.  
 (2) There is no centralized control.  
 (3) It is a network of computer networks.  
 (4) All the information available is extremely accurate and highly reliable.
35. Which of the following is a search engine?  
 (1) Outlook Express (2) Internet Explorer  
 (3) Google (4) Macromedia Flash
36. A company that provides access service to the Internet is called a/an  
 (1) Server (2) Client (3) ISP (4) Teleshop
37. <http://www.doenets.lk> is an example of  
 (1) a server. (2) a URL (Uniform Resource Locator).  
 (3) an access cord of a network. (4) an e-mail address of an organization.
38. The purpose of a password in a computer network is to  
 (1) allow access to the public to enter it. (2) provide security and control access.  
 (3) speed up the operations of the computer. (4) provide equal privileges to all users.
39. A poor or awkward posture at the computer for a short duration can cause  
 (1) nausea. (2) mental stress. (3) back pain. (4) eye problems.
40. Which of the following is not recommended regarding health and safety of using a computer?  
 (1) Use the computer during lightning.  
 (2) Your face should be about 45 cm away from the computer screen.  
 (3) Whenever you use the computer for a longer duration, you need to have regular breaks.  
 (4) Avoid poor wiring and electrical connections in the computer room.

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