

23. The following part of the tool bar shows the tools used in formatting a particular sentence in a word processed document.



This sentence is

- (1) italicized, underlined and left aligned. (2) boldfaced, italicized and left aligned.
 (3) boldfaced, underlined and right aligned. (4) boldfaced, underlined and left aligned.
24. During an electronic presentation, if you press the key 'B' on your computer keyboard,
 (1) presentation moves to the previous slide. (2) screen becomes white.
 (3) presentation moves to the last slide. (4) screen becomes black.
25. The intersection of a row and a column in an electronic spreadsheet is called a
 (1) cell. (2) range. (3) database. (4) worksheet.
26. Which of the following represent valid cell addresses in spreadsheet software?
 a - P10\$ b - \$P\$10 c - P\$10\$ d - \$P10
 (1) a and b. (2) c and d. (3) a and c. (4) b and d.
27. Cells A1 and B1 in a worksheet contain following data:

Cell	Value	Description
A1	25,000	Salary of a principal
B1	20,000	Salary of a teacher
C1		Total Salary of a principal and five teachers

Cell C1 contains the total salary of a principal and five teachers. How should the formula in cell C1 be written?

- (1) ?A1+B1*5 (2) =A1+B1*5 (3) ?(A1+B1)*5 (4) =(A1+B1)*5
28. A collection of fields in a database is called a
 (1) record. (2) table. (3) query. (4) form.
29. "The report provides a step-by-step guide to create a report using records from several tables in a database." The appropriate term to fill in the blank of this statement is
 (1) master. (2) assistant. (3) guide. (4) wizard.
30. Which of the following are main objects of a database?
 a - Table b - Query c - Form d - Index
 (1) a, b and c. (2) b, c and d. (3) a, b and d. (4) a, c and d.
31. Which of the following can be used to enter data into a database?
 (1) Chart. (2) Form. (3) Report. (4) Index.

● Consider the given flow chart for questions 32 to 35.

32. Which of the following represents process, decision and output respectively?

- (1) $X = X - 3$, Is $X > 15$, Print X.
 (2) $X = 21$, $X = X - 3$, Print X.
 (3) Is $X > 15$, $X = X - 3$, Print X.
 (4) $X = X - 3$, $X = 21$, Print X.

33. Choose the most correct decision that terminates the iteration.

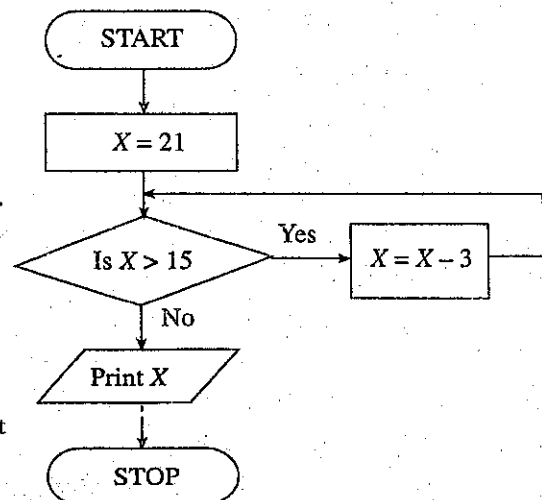
- (1) $X > 15$. (2) $X < 15$.
 (3) $X \geq 15$. (4) $X \leq 15$.

34. What is the output of the flow chart?

- (1) 9 (2) 12
 (3) 15 (4) 18

35. If the decision $X > 15$ is changed to $X \geq 15$, the output of the flow chart is

- (1) 9 (2) 12
 (3) 15 (4) 18

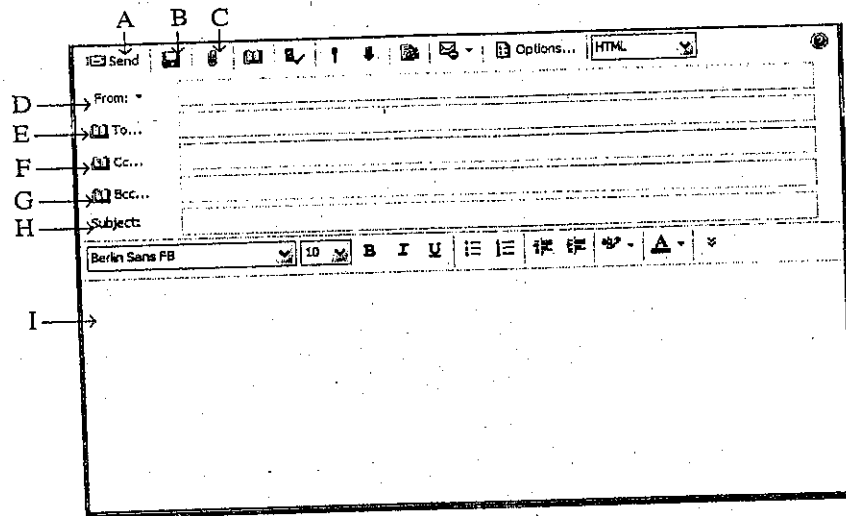


36. Which of the following is an **incorrect** statement?
- (1) On-line shopping is possible using the Internet.
 - (2) Doctors can use computers to analyse medical records of patients.
 - (3) Computers and Internet can be used to obtain government services from home.
 - (4) On-line shopping is possible without the use of a communications link to the Internet.
37. A company needs to develop a computerized system to manage their sales. Who is the most appropriate person to study this requirement?
- (1) Systems analyst. (2) Programmer. (3) Web designer. (4) Hardware Engineer.
38. A manager of a certain company would like to protect his computer from unauthorised access by others through Internet. Which one of the following is the most suitable solution for his requirement?
- (1) Installing an antivirus software. (2) Upgrading the version of the operating system.
(3) Installing a firewall. (4) Avoiding the use of pirated software.
39. A computer has been infected with a virus. What is the least likely reason for the infection?
- (1) Use of pirated software.
 - (2) Use of a flash memory device in a lab without virus protection.
 - (3) Not updating the virus guard software.
 - (4) Not using the newer version of the operating system.
40. Which of the following are open source operating systems?
- a* - Ubuntu *b* - Windows XP *c* - Open Suse
- (1) *a* and *c* only. (2) *b* and *c* only.
(3) all *a*, *b* and *c*. (4) none of them.

* *

2. (a) (i) Briefly explain the advantages of e-mail over traditional postal mail.
- (ii) Amal is planning to send an e-mail to Kamal about his recent visit to Kandy. He also wants to send a digital photograph he took during this visit along with this e-mail. Amal wants to send a copy of this e-mail to Vimal too.

Use the following figure to answer questions given below by choosing appropriate letters from A to I.



- In which field should Amal include the e-mail address of Kamal?
 - In which field should Amal include Vimal's e-mail address in order to send a copy of the original e-mail to Vimal?
 - Identify the purposes of areas indicated by D, H and I.
 - Briefly explain the difference between F and G.
 - Which button should Amal select in order to attach the digital photograph?
- (b) One of your friends told you that he found a very interesting article "Impact of www on you". However he could not remember the Uniform Resource Locator (URL) of the website where he found this article. Briefly explain how you would find this article and download it.
3. (a) The following document is created by using a word processing software. Study the document and answer the questions given.

The image shows a screenshot of a word processing document. The title is "Finding Jobs Online". Below the title is an illustration of a man sitting at a desk with a computer monitor. Labels A through D point to the following elements:

- A: Title "Finding Jobs Online"
- B: Illustration of a man at a computer
- C: Text "Jobs Net Website"
- D: URL "http://www.jobsnet.lk"

This is a Sri Lankan website developed by Ministry of Employment and Labour, Sri Lanka. You can visit this site at <http://www.jobsnet.lk>.

- (i) What is the tool that can be used to create the title of the document shown as A?
- (ii) How do you add the picture shown as B to the document?
- (iii) Write down the steps to achieve the appearance of the words "Jobs Net Website" shown as C in the document.
- (iv) The text shown as D is a hyperlink. Write down the steps needed to remove this hyperlink.
- (b) Briefly describe the steps that you would follow to move the slide at 3rd position to the 5th position in an electronic presentation.
4. (a) Sales values in each shop of a supermarket chain during the first six months of 2010 are given in the following table.

L2									
	A	B	C	D	E	F	G	H	I
1	Sales in Rs.millions								
	Shop	January	February	March	April	May	June	Total sales	Commission (Rs.)
3	Badulla	4	4	8	12	9	6		
4	Colombo	20	25	22	40	32	28		
5	Galle	12	14	15	26	22	18		
6	Jaffna	6	8	10	18	14	12		
7	Kandy	18	21	23	36	30	25		
8	Trincomalee	8	12	14	31	22	16		

- (i) What is the formula that should be written in cell H3 to calculate the total sales value for the shop at Badulla?
- (ii) If 5% of total sales for the past six months are allocated as the commission for the staff in each shop, write down the formula necessary for cell I3 to calculate the sales commission for the staff of the shop at Badulla.
- (iii) Write down the steps to get the commission amounts allocated for other shops in cell range I4:I8.
- (b) (i) Assume that you are creating a database table to hold the information of the students in your class. Write down the data type suitable to hold the following information :
- Admission number
 - Name
 - Date of birth
 - Amount paid for facilities fees
 - Whether staying in the hostel or not.
 - Average marks for the mid-term test.
- (ii) Name a suitable field as the primary key in the above table and explain why you selected this field for the primary key.

5. Answer either part (A) or part (B) only.

● Part A

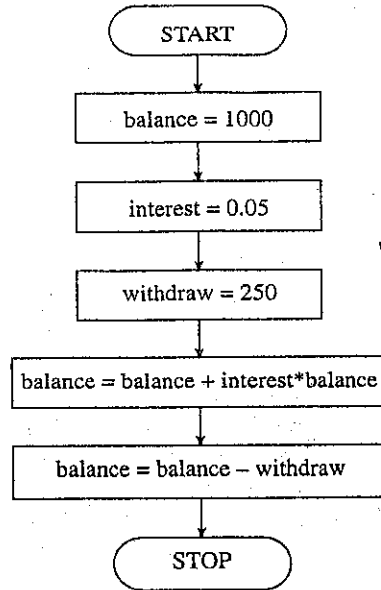
- (a) Give the meaning for each of the following basic shapes as used in a flow chart.

(i) 

(ii) 

(iii) 

- (b) Consider the following flow chart. Here *balance*, *interest* and *withdraw* are variables.



- (i) Give the initial values of each variable.
 (ii) Give the value of the variable that changes its initial value at the end of the last process.
- (c) Draw a flow chart for the following :

Read the price of an item. Print the price of the item. If the price is greater than Rs. 1000, print the message "very expensive" and assign 'E' to the item type. If the price is between Rs. 500 and Rs. 1000 both inclusive, print the message "moderate" and assign 'M' to the item type. If the price is less than Rs. 500, print the message "very cheap" and assign 'C' to the item type. Print the item type.

● Part B

- (a) (i) Write a Pascal variable declaration to declare two variables *total* and *average* as type real, the variable *star* as type char and the variable *number* as type integer.
 (ii) Write a Pascal statement to assign the 10th component of an array variable *letter* to its 5th component.

- (b) Write down the output of each of the following code segments.

```

(i) sum := 0;
    x := 1;
    while x <= 5 do
    begin
        sum := sum + x;
        x := x + 1;
    end;
    write (sum);
  
```

```

(ii) a := 1;
     b := 7;
     for i := b - a to b + a do
     write (i*i);
  
```

- (c) write a Pascal program to read three integer numbers and output the smallest of them.

6. (a) Identify **three** employment opportunities in information and communication Technology (ICT) field and describe the job tasks of each of them.
 (b) Briefly explain **two** ethical issues in ICT field. Your answer should include an example for each of the ethical issue mentioned.
 (c) Briefly explain **two** health effects that may be caused due to the use of computers with a wrong posture?
 (d) Computer Specifications such as processor speed and memory capacity are important factors in selecting a personal computer. Briefly describe **two** other factors that you should consider in buying a personal computer for home use.
 (e) Explain **one** ICT application in **any two** of the following fields.
 (i) Education (ii) Health (iii) Business