



Duration: 2 Hours

Date: 10.05.2006

Time: 10.00 a.m. – 12.00 p.m.

Answer Four Questions Only.

Q1.

- a. What are the main features of a computer?
- b. Write short notes on the following:
 - i. Central Processing Unit
 - ii. Peripherals
 - iii. Memory
- c. What are the differences between a micro computer and a mainframe computer?
- d. How many bytes are there in a 32Mb memory chip?

Q2.

- a. Convert the following decimal value into binary and binary value into decimal.
 - i. 345_{10}
 - ii. 110101011_2
- b. There are five generations of computer programming languages. Give an example for each generation.
- c. What are the differences between system software and application software?
- d. Indicate whether the following statements are TRUE or FALSE.
 - i. Setup program is only an interface to the BIOS program.
 - ii. The diagnostic routing software runs at the time you switch on a computer.
 - iii. MS-DOS is a single user multi tasking operating system.
 - iv. OS/2 is a graphical based networking operating system.
 - v. Windows-NT requires more resources than Windows.

Q3.

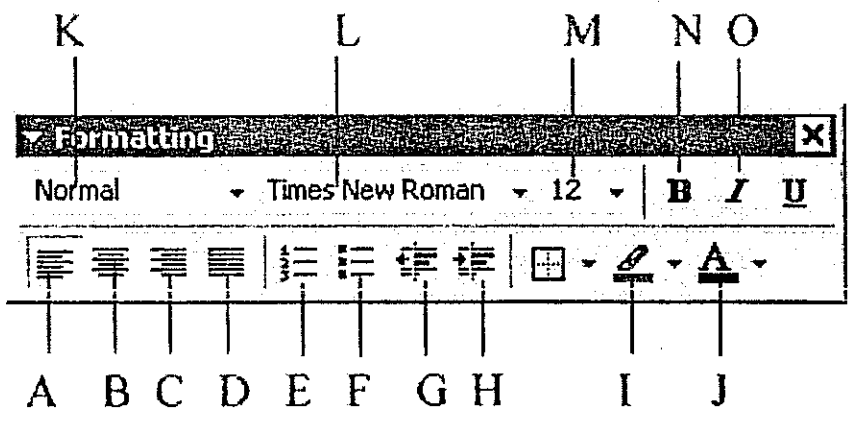
- a. What are the advantages and disadvantages of the Windows operating system? Compare with other operating systems.

Q3.

- a. පොතක් මෙහෙයුම් පද්ධති (Operating System) සමග සසඳමින් වින්ඩෝස් මෙහෙයුම් පද්ධතියක (Windows Operating System) ඇති වාසි හා අවාසි මොනවාදැයි සඳහන් කරන්න.
- b. පහත ප්‍රකාශන සත්‍ය හෝ අසත්‍ය බව දක්වන්න.
 - i. DOS 'friendliest' මෙහෙයුම් පද්ධතියක් (Operating System) නොවේ.
 - ii. Unix විශේෂයෙන් සකසා ඇත්තේ මුද්‍රාකාංග සකසන්නන් (programmers) සඳහාය.
 - iii. Linux මෙහෙයුම් පද්ධතිය සඳහා බලපම්පන්න (powerful) පරිගණක අවශ්‍ය වේ.
 - iv. XENIX සහ AIX යනු LINUX වලට සංස්කරණයන් (version) දෙකකි.
 - v. Networking සහ multi user වැනි පහසුකම් OS/2 මගින් සපයනු ලැබේ.
- c. පහත ඒවා සඳහා කෙටි සටහන් ලියන්න:
 - i. Windows explore
 - ii. My computer
 - iii. Control panel

Q4.

- a. අනෙකුත් Word processor වලට වඩා Microsoft Word වඩාත් ජනප්‍රියයි. (Microsoft word is the most popular word processor than others) මඛ මෙම ප්‍රකාශනයට එකඟ වන්නේද? කෙටියෙන් විස්තර කරන්න.
- b.



- ඉහත පෙන්වා ඇති රූපය භාවිතා කරමින් පහත කටයුතු සිදු කළ හැක්කේ කෙසේදැයි පෙන්වා දෙන්න.
- i. font එකෙහි නම 'Arial' සහ ප්‍රමාණය 10 වන ලෙසට සැකසීම.
 - ii. Text එක left සහ right justified වන ලෙසට සැකසීම (alignment කිරීම).

12.00 marks

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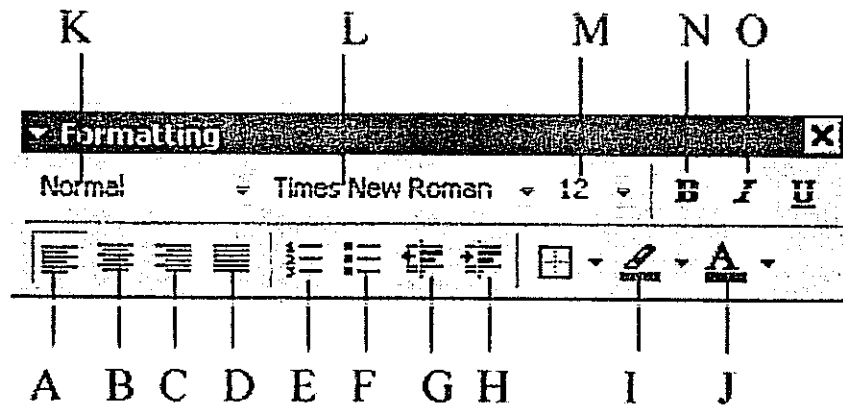
tem?

- b. Indicate whether the following statements are TRUE or FALSE.
- DOS is not a 'friendliest' operating system.
 - Unix was specially designed for programmers.
 - Linux needs more powerful computers to run on.
 - XENIX and AIX are the two version of LINUX.
 - OS/2 supports activities such as networking and multi user facilities
- c. Write short notes on the following: with respect to windows operating system.
- Windows explore
 - My computer
 - Control panel

Q4.

- a. "Microsoft Word is the most popular word processor than others" Do you agree with this statement? Explain briefly.

b.



By using the above figure, describe how the following tasks are carried out.

- change font as 'Arial' and change font size to 10.
 - Set the text alignment as left and right justified.
 - Insert bullets into your text document.
 - Change text and background colors.
- c. Create five Microsoft PowerPoint presentation slides to introduce Microsoft Word for Advanced level students.

Q5.

- a. What is a spreadsheet?
- b. Using your knowledge on Microsoft Excel, explain the following terms.
- Workbook
 - Formula bar

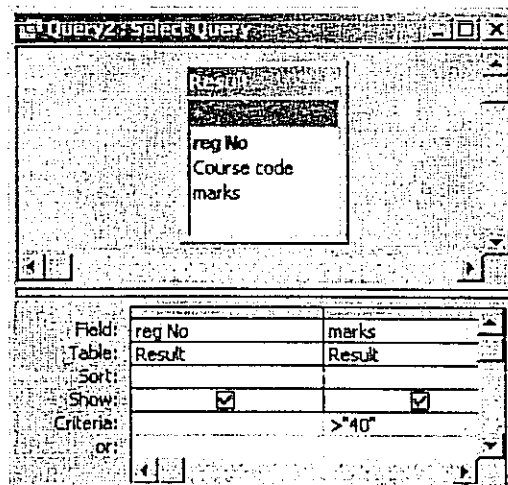
c. Answer the following questions by using the table given below:

	A	B	C
1	Reg. No	Course Code	Marks
2	10203040	CSE1174	60
3	10203041	CSE1174	13
4	10203042	CSE1174	94
5	10203043	CSE1174	40
6	10203044	CSE1174	25
7	10203045	CSE1174	70
8	10203046	CSE1174	55
9	10203047	CSE1174	24

- i. Write a function to find the total marks.
- ii. Write a function to find the maximum and minimum mark.
- iii. Write a function to add extra 05 marks to all the students.
- iv. Find the average mark of the course.

Q6.

- a. By using the table given in question 5.c, explain the terms records, field and data.
- b. What is the most suitable data type to represent the above table structure?
- c. The following figure shows some query designed by a student to query data from the above table. What will be the output of this query? Explain your answer?



- d. Write short notes on the following terms:
 - i. e-commerce
 - ii. Intelligent systems

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