SCHOOL CENTER VELENJE
COLLEGE OF INFORMATICS

THE ENGLISH LANGUAGE
-
SAMPLE EXAM
(<u>ABBREVIATED</u> VERSION)

IDENTIFICATION NUMBER:

DATE:

POINTS // PERCENTS // GRADE: ____/X   // _____/100%   // _____/10

CRITERIA SCALE
100%-96%=10
95%-91%=9
90%-80%=8
79%-66%=7
65%-50%=6

1. READ THE TEXT BELOW AND ANSWER THE QUESTIONS IN FULL SENTENCES.

READY FOR THE BAZILLION-BYTE DRIVE?

Thinking about writing your memoirs – putting your life story down on paper for all eternity? Why not skip the repetitive strain injury and just capture your whole life on full-motion video, putting it all in a device the size of a sugar cube? It might not be as far off as you think.

Currie Munce, director of IBM's Advanced HDD Technology Storage Systems Division, has one avowed goal: Build bigger storage. Recently Munce and his fellow Ph.Ds restored Big Blue's lead in the disk space race with a new world record for areal (bit) density: 35.3 gigabits per square inch – roughly three times as dense as any drive shipping at press time.

During the 1990s, areal density doubled every 18 months, keeping pace with the transistor density gains predicted by Moore's Law. But increasingly daunting technical challenges face those who would push the storage envelope further. 'I think magnetic recording technology has another good 5 to 10 years', says Munce. 'After that, we'll see substantial difficulties with further advances at the pace people are accustomed to.'

From here on, a phenomenon called superparamagnetism threatens to make densely-packed bits unstable. Provided that new developments continue to thwart superparamagnetic corruption, scientists speculate that the theoretical limit for discrete bit recording is 10 terabits per square inch (1 terabit = 1,000 gigabits).

Approaching this limit will require new technologies. Two possible contenders are atomic force microscopy (AFM) and holographic storage. AFM would use a spinning plastic disk, perhaps inside a wristwatch, and a tiny, 10-micron cantilever with a 40-angstrom tip (an angstrom represents the approximate radius of an atom) to write data. In theory, AFM will allow densities of 300 to 400 gigabits per square inch.

1. What is Currie Munce's aim?

2. How quickly did the possible areal density of hard disks increase in 1990s?

3. How long does Munce think magnetic recording technology will continue to make rapid advances in capacity?

4. What problem does he predict for magnetic storage?

5. What is the predicted limit for discrete bit magnetic storage capacity?

6. …

2. TRANSLATE THE FOLLOWING SENTENCES INTO SLOVENIAN.

1. One of the cache controller's main jobs is to look after 'cache coherency' which means ensuring that any changes written to main memory are reflected within the cache and vice versa.

2. The three-dimensional nature of holography makes it an appealing storage medium.

3. All input and output operations, although invoked by an applications program, are actually carried out by the operating system.

4. If you don't have the source code to a program, you can't modify it to fix bugs or add new features.

5. The convergence of personal computers and consumer electronics devices is broadening the base of computer users and placing a new emphasis on ease of use.

6. …

3. WRITE DOWN THE MEANING OF THE FOLLOWING ABBREVIATIONS ('COMPUTING' CONTEXT).

FSB =

TFT =

TCP =

XGA =

UDP =

…

4. PUT THE VERBS IN BRACKETS INTO THE APPROPRIATE TENSE FORM.

Dear Ken,

I _____(write) to let you know how I am getting on with the marketing trip

here. I am sorry I _____(not / be) in touch for so long, but I _____(be)

very busy since I _____(arrive) here on the 18th.

There is a great deal of interest in the new copier. Last week I was in

Sydney, where I _____(visit) a number of companies and _____(see) a

couple of potential agents. The feedback at all those meetings _____(be) very

positive, and I _____(already / receive) a number of orders. People

_____(call) me all this week. I _____(never / have) such an

enthusiastic response about a new product, so I am confident it will be a

great success.

I will be in touch again soon.

Jim

5. PUT THE FOLLOWING SENTENCES INTO THE PASSIVE VOICE.

1. A computer matched each vehicle with the DVLC database.

2. The first unit is identifying each vehicle by its number plates using OCR software.

3. The microprocessor has relayed the registration numbers of speeding vehicles to police headquarters.

4. The second unit will record the time.

5. The scanner had converted the barcode into electrical pulses.

6. …