

Rastriya Banijya Bank Limited
Level 5, Senior Assistant (Computer Operator), Internal Competition,
Written Examination
2072/8/5

Paper: Second

Time: 3 Hours

Full Marks: 100

Subject: Computer/IT Knowledge

Attempt all Questions. All questions are equal marks.

1. a. Draw a truth table of the following where $C_k=1$
- b. A benchmark program is run on a 40 MHz processor. The executed program consists of 1,00,000 instruction executions, with the following instruction mix and clock cycle count:

Instruction Type	Instruction Count	Cycles per Instruction
Integer Arithmetic	45,000	1
Data Transfer	32,000	2
Floating Point	15,000	2
Control Transfer	8,000	2

Determine the effective CPI, MIP rate and executive time for this program.

2. Describe network topology. Explain its types with advantages and disadvantages.
3. What is an Operating System? Describe in brief different categories of operating system depending upon of its architecture.
4. State the major concerns about the computer crime and privacy policy in Nepal.

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