

# H.S. 1st Year Unit Test, 2022

## Subject : Computer Science

Total Marks : 50

Time : 2 Hours

1. Answer any five of the following questions:

1×5=5

(a) What is operating system ?

Operating System কি ?

(b) What is application software ?

Application software কি ?

(c) What do you mean by booting up ?

Booting up মানে কি বুজা ?

(d) What is a byte ?

Byte কি ?

(e) Give some examples of hardware ?

Hardware ৰ কেইটামান উদাহৰণ দিয়া । ?

2. Answer any five of the following questions:

2×5=10

(a) What is a CPU? Write about the functions of ALU and CU in CPU.

CPU কি ? CPUত থকা ALU আৰু CU ৰ কাৰ্যসমূহ লিখা ।

(b) Convert  $(33)_{10}$  to binary .

$(33)_{10}$  binary লৈ সলনি কৰা ।

(c) Draw the functional components of a computer.

Computer ৰ functional components অংকন কৰা ।

(d) What is open source software?

Open source software কি ?

(e) What is proprietary software ?

Proprietary software কি ?

(f) What do you mean by throughtout?

Throughtout মানে কি বুজা ?

3. Answer any five of the following questions:

4×5=20

(a) Convert  $(38.21)_{10}$  to binary.

$(38.21)_{10}$  to binary লৈ সলনি কৰা।

(b) Convert  $(1010100.011)_2$  decimal number.

$(1010100.011)_2$  decimal number লৈ সলনি কৰা।

(c) What is meant by the terms multiprogramming and multitasking?

Multiprogramming আৰু multitasking মানে কি বুজা?

(d) Convert  $(B2F)_{16}$  to octal.

$(B2F)_{16}$  to octal লৈ সলনি কৰা।

(e) Convert  $(86.03125)_{10}$  to hexadecimal.

$(86.03125)_{10}$  to hexadecimal লৈ সলনি কৰা।

(f) Convert  $(11111011110101)_2$  to octal.

$(11111011110101)_2$  to octal লৈ সলনি কৰা।

4. Answer the following questions:

5×3=15

(a) Write a program in C++ to display 'HELLO WORLD'.

C++ ত 'HELLO WORLD' display কৰিবলৈ program লিখা।

(b) What do you mean by an assembler, interpreter and compiler?

Assembler, interpreter আৰু compiler মানে কি বুজা।

(c) Write five functions of operating system.

Operating system ৰ পাঁচটা কাৰ্য্যাবলী লিখা।

\*\*\*