APPLIED SCIENCES   HSSC–II
SECTION – A (Marks 10)

| Time allowed: 10 Minutes | Version Number | 1 | 8 | 9 | 5 |

Note: Section – A is compulsory. All parts of this section are to be answered on the separately provided OMR Answer Sheet which should be completed in the first 10 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Q. 1 Choose the correct answer A / B / C / D by filling the relevant bubble for each question on the OMR Answer Sheet according to the instructions given there. Each part carries one mark.

1) Which of the following is a type of storage that has sectors for data?

   A. Flash drive   B. Pin drive
   C. Hard disk drive   D. None of these

2) A keyboard falls in which kind of device?

   A. Output device   B. Input device
   C. Computing device   D. None of these

3) IT stands for which of the followings:

   A. Integrated Technology   B. Intelligent Technology
   C. Interesting Technology   D. None of these

4) Which of the following refers to the fastest, biggest and most expensive computers?

   A. Personal computers   B. Supercomputers
   C. Laptops   D. None of these

5) Which of the following is a collection of related information sorted and dealt with as a unit?

   A. Disk data   B. File
   C. Floppy   D. None of these

6) How many are the classes of hazards in occupational safety?

   A. 2   B. 4
   C. 6   D. 8

7) Which of the following is defined as "an occurrence which interrupts regular activity"?

   A. Hazard   B. Risk
   C. Accident   D. Danger

8) Which of the following affects directly heart of the subject?

   A. Micro Shock   B. Macro Shock
   C. Leakage current   D. None of these

9) Which of the following provide only short circuit protection?

   A. Circuit breaker   B. Fuse
   C. Relay   D. Switch

10) Isolation transformer is used in which of the following area?

   A. Wards   B. Emergency
   C. O.T   D. CCU

APPLIED SCIENCES HSSC–II

Time allowed: 2:20 Hours   **Total Marks Sections B and C: 40**

NOTE: Answer any twelve parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet–B if required. Write your answers neatly and legibly.

SECTION – B (Marks 24)

Q. 2   Answer any TWELVE parts. The answer to each part should not exceed 2 to 4 lines.   (12 x 2 = 24)

(i)   List the four parts of a computer system.

(ii)   List five units of measure for computer memory and storage.

(iii)   Name and describe three types of storage devices.

(iv)   Define application software.

(v)   Name some operating systems.

(vi)   Explain output systems.

(vii)   Define software.

(viii)   Enlist types of hazard a health worker has to face and explain two of them.

(ix)   Explain working of a transformer.

(x)   What is micro shock hazard and explain how it can affect a patient.

(xi)   What is radiation and list different types of electromagnetic radiations used in hospital?

(xii)   What is leakage current and how can it be harmful to patient?

(xiii)   What type of radiation is used for sterilization?

(xiv)   What is Ventricular Fibrillation?

(xv)   What is Defibrillator and why it is used?

(xvi)   List names of two types of computer monitors.

SECTION – C (Marks 16)

Note:-   Attempt any TWO questions. All questions carry equal marks.   (2 x 8 = 16)

Q. 3   Write a short note on Cathode Ray Tube.

Q. 4   How will you select a printer? Explain.

Q. 5   Explain the Micro Shock and Macro Shock.

—— 2HA 1849 ——