



Roll No.

Answer Sheet No. \_\_\_\_\_

Sig. of Candidate. \_\_\_\_\_

Sig. of Invigilator. \_\_\_\_\_

# APPLIED SCIENCES HSSC-II

## SECTION – A (Marks 10)

Time allowed: 10 Minutes

**NOTE:** Section–A is compulsory. All parts of this section are to be answered on the question paper itself. It 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** Circle the correct option i.e. A / B / C / D. Each part carries one mark.

- (i) Which of the following softwares is used for preparation of Presentations?
 

A. M.S. Word	B. M.S Excel
C. M.S Access	D. M.S PowerPoint
- (ii) Which of the following types of computer is used in offices, commonly?
 

A. Lap-Top	B. Notebook
C. Mini computer	D. Personal computer
- (iii) Which of the following is **NOT** used as Operating System?
 

A. M.S Office	B. Unix
C. DOS	D. Window
- (iv) Which of the following is **TRUE** for the mouse?
 

A. A pointing device	B. A clicking device
C. Double clicking device	D. All of these
- (v) Which of the following is called the brain of the computer system?
 

A. CPU	B. Keyboard
C. Mouse	D. ALU
- (vi) Which of the following is particular property of Ventricular Fibrillation?
 

A. High level of current	B. Extra high voltage
C. Extra high heart-beat	D. None of the these
- (vii) Which of the following is defined as "the level of current which a subject can detect"?
 

A. Threshold of perception	B. Let go current
C. Leakage current	D. High current
- (viii) Which of the following is a protective device for over current?
 

A. Magnetic Relay	B. Switch
C. Circuit breaker	D. Fuse
- (ix) Which of the following units is used to measure radiation absorbed by the patient?
 

A. Rem	B. Roentgen
C. Rad	D. None of these
- (x) Which of the following is the most dangerous effect of Radiation?
 

A. Long-term effect	B. Short-term effect
C. Genetic effect	D. None of these

For Examiner's use only:

Total Marks:

10

Marks Obtained:



# APPLIED SCIENCES HSSC-II

79

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) Enlist the parts of computer system and write briefly about one of them.
- (ii) What is Mainframe and where is it used?
- (iii) What is Ergonomic Keyboard? Why is it used?
- (iv) Enlist alternative devices for hand? What is Bar Code Reader?
- (v) Enlist the four features of comparing monitors and define any one of them.
- (vi) How will you evaluate Printers?
- (vii) What are binary numbers?
- (viii) Enlist the classes of occupational health hazards.
- (ix) Define Accident.
- (x) Differentiate between Hazard and Risk.
- (xi) Differentiate between Ionization and Excitation.
- (xii) What are the conditions for physiological effects of current to occur?
- (xiii) What is Ventricular Fibrillation?
- (xiv) Enlist the General and Critical areas of a hospital along with leakage voltage limit.
- (xv) What is Shock?
- (xvi) What is Safety?

## SECTION – C (Marks 16)

**Note:-** Attempt any TWO questions. All questions carry equal marks.

( 2 x 8 = 16 )

- Q. 3** Enlist Physiological effects of electric current. Also explain any two of them.
- Q. 4** Discuss the principle of Radiation Protection.
- Q. 5** Discuss Mouse techniques in detail.