



# APPLIED SCIENCES HSSC-II

## SECTION – A (Marks 10)

112

Time allowed: 10 Minutes

|                |   |   |   |   |
|----------------|---|---|---|---|
| Version Number | 4 | 4 | 9 | 1 |
|----------------|---|---|---|---|

**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 software is used to manage computer's own tasks?
 

|                         |                  |
|-------------------------|------------------|
| A. Application software | B. MS Office     |
| C. System software      | D. None of these |
- 2) Which of the following related to Super Computer only?
 

|                         |                   |
|-------------------------|-------------------|
| A. Complex Calculations | B. E-Commerce     |
| C. Internet server      | D. Product Design |
- 3) Which of the following is an optical input device?
 

|                    |                  |
|--------------------|------------------|
| A. Mouse           | B. Touch screens |
| C. Game controller | D. OCT           |
- 4) Which of the following is expressed in pixels?
 

|               |                 |
|---------------|-----------------|
| A. Size       | B. Refresh rate |
| C. Resolution | D. Dot pitch    |
- 5) Which type of RAM need to be recharged with electricity frequently?
 

|                                |                    |
|--------------------------------|--------------------|
| A. Dynamic RAM only            | B. Static RAM only |
| C. Both Dynamic and Static RAM | D. None of these   |
- 6) Which of the following categories are causes of accident?
 

|   |                                      |
|---|--------------------------------------|
| A. Unsafe chemical and physical conditions only | B. Unsafe mechanical conditions only |
| C. Unsafe personal acts only                    | D. All of the above                  |
- 7) Which of the following is cause of electric fire?
 

|                    |                           |
|--------------------|---------------------------|
| A. Bare conductors | B. Use of two pin sockets |
| C. Short circuit   | D. Open circuit           |
- 8) Which of the following units is related to biological effects of radiation?
 

|             |        |
|-------------|--------|
| A. Roentgen | B. Rad |
| C. Curie    | D. Rem |
- 9) Which of the following is non-ionizing radiation?
 

|               |                   |
|---------------|-------------------|
| A. Gamma Rays | B. Alpha Rays     |
| C. Beta Rays  | D. Microwave Rays |
- 10) Which of the following is used for over current protection?
 

|                       |                    |
|-----------------------|--------------------|
| A. Switch             | B. Circuit breaker |
| C. Magnetic contactor | D. Fuse            |

**For Examiner's use only:**

**Total Marks:**

10

**Marks Obtained:**



# APPLIED SCIENCES HSSC-II

113

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) Write a note on CPU.
- (ii) Differentiate between trackball and Track pad.
- (iii) How will you evaluate Printers?
- (iv) What is a Machine Cycle?
- (v) How magnetic storage works?
- (vi) Write a note on GUI (Graphical User Interface) tools.
- (vii) How a document can be edited in word processing program?
- (viii) What are the uses of a presentation program?
- (ix) Why and where Modems are used?
- (x) Define Safety.
- (xi) Enlist physiological effects of current and define one of them.
- (xii) What is fibrillation and name the machine used for its cure.
- (xiii) Enlist the conducive paths of current to the heart.
- (xiv) Write a short note on ionizing radiations.
- (xv) Enlist methods of minimizing radiation effects of human beings.
- (xvi) Write precautions to prevent accidents.

## SECTION – C (Marks 16)

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

( 2 x 8 = 16 )

- Q. 3** Explain Atomic structure including ionization and excitation.
- Q. 4** Write a note on Input devices of computer.
- Q. 5** Enlist types of processors and explain two of them used commonly.