



Roll No.

Answer Sheet No.

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

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

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## 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) Collection of raw facts is called \_\_\_\_\_  
A. Data B. Sink  
C. Protocol D. Network
- (ii) CPU is an example of \_\_\_\_\_  
A. Software B. A program  
C. Hardware D. An output unit
- (iii) A set of instructions that runs the computer is \_\_\_\_\_  
A. Hardware B. Document  
C. CPUs D. Software
- (iv) Data and program not being used by computer are stored in \_\_\_\_\_  
A. Secondary storage B. Cache  
C. Primary storage D. Printer
- (v) Which of the following is **NOT** a storage device?  
A. Hard disk B. Printer  
C. Compact disk D. ROM
- (vi) Which of the following is an application software?  
A. Windows B. Unix  
C. DOS D. MS Office
- (vii) A horizontal line of cells in MS Excel is called a \_\_\_\_\_  
A. Row B. Column  
C. Formula bar D. Work sheet
- (viii) The unit of Radioactivity is \_\_\_\_\_  
A. Gray B. Rad  
C. Curie D. Rem
- (ix) The unit for radiation absorbed dose is \_\_\_\_\_  
A. Curie B. Gray  
C. Roentgen D. Becquerel
- (x) Unit of activity is \_\_\_\_\_  
A. Roentgen B. Gray  
C. Becquerel D. Rad

For Examiner's use only:

Total Marks:

10

Marks Obtained:



# APPLIED SCIENCES HSSC-II

97  
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Time allowed: 2:20 Hours

Total Marks Sections B and C

NOTE: Answer any twelve parts from Section 'B' and any two questions from Section 'C' on a 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 Attempt any TWELVE parts. The answer to each part should not exceed 2 to 4 lines. ( 12 x 2 = 24 )

- (i) Write down the characteristics of display screens.
- (ii) List any two output devices of computer.
- (iii) Differentiate between Bit and Byte.
- (iv) Briefly describe **World Wide Web** and **Electronic mail**.
- (v) Describe briefly the System software.
- (vi) What are the four basic characteristics of computer?
- (vii) Distinguish between Analog and Digital signals.
- (viii) Briefly describe Dot Matrix Printer.
- (ix) What is meant by **DICOM** and **PACS**?
- (x) What is CPU?
- (xi) What is Hazard surveillance?
- (xii) List the types of Infection.
- (xiii) List the different modes of the spread of infection.
- (xiv) Write down the drawbacks of improper disposal of hospital wastes.
- (xv) What is Safety?
- (xvi) Briefly describe the Chemical burns.

## SECTION – C (Marks 16)

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

- Q. 3
- a. Explain the causes of computer virus. (05)
  - b. Describe the uses and benefits of LAN. (03)
- Q. 4
- a. Explain the three cardinal principles of radiation protection. (05)
  - b. Describe the biological effects of ionizing radiation. (03)
- Q. 5
- a. Write a detailed note on workplace hazards and methods of protection. (05)
  - b. Describe patient safety in the emergency department. (03)