



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 one of the following stands for PNRA?
- A. Provincial north regulatory authority B. Pinstik northern regulatory authority
C. Pakistan nuclear regulatory authority D. Private northern remote authority
- (ii) Which one of the following part refers to proton-atomic mass unit?
- A. Electron B. Neutron
C. Electron + proton D. Positron
- (iii) Which one is the name of unit of energy released by an electron, when it jumps from higher to lower orbit?
- A. Rem B. Curie
C. Quanturn D. Farad
- (iv) Which one of the following parts produce a sensory disturbance?
- A. Micro shock B. Leakage current
C. Macro shock D. Tension
- (v) Which one of the following part is true for the statement "high frequency electric current machine to produce heat for cutting and coagulation"?
- A. Pacemaker B. Defibrillator
C. Surgical diathermy D. Emergency power system
- (vi) Which one of the following part is true about ROM?
- A. At is non volatile (permanent)
B. It changes rapidly
C. It does not hold instruction
D. It temporary stores data and programme needed by C.P.U
- (vii) Which one of the following parts is define as a pointing device used to issue command?
- A. Printer B. C.P.U
C. Mouse D. Monitor
- (viii) Which one of the following PCS are termed as note look computer?
- A. Super computer B. Main frame computer
C. Laptop D. Minicomputer
- (ix) Which one of the following printers are termed as "Impact printer"?
- A. Laser printer B. Dot matrix printer
C. Snap shot printer D. Ink jet printer
- (x) Which our of the following is responsible for actual manipulation of data?
- A. DRAM B. Laser printer
C. Snap shot printer D. A.L.U

For Examiner's use only:

Total Marks:

10

Marks Obtained:





APPLIED SCIENCES HSSC-II

89

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) Define capacitor and inductor.
- (ii) Write two slogans to be kept in mind while working in electrical circuit.
- (iii) Write three primary effects of electrical current.
- (iv) If the total load of consumer is 2200 watts at 220 volts. Then find the leakage current limit.
- (v) Define switch and circuit breaker.
- (vi) Write two main functions of diathermy.
- (vii) Define ground fault and write two methods for distribution of electrical power.
- (viii) Write the name of two organisation responsible for producing publication regarding electrical safety and on biomedical equipment.
- (ix) Write four classifications of keyboard.
- (x) Write about C.P.U of computer.
- (xi) List computer's hardware devices.
- (xii) Define hardware and software of computer.
- (xiii) List three types of optical storage devices of computer.
- (xiv) List two word processing tools and their use.
- (xv) Write the difference between RAM and ROM.
- (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 note on electrical safety and its physiological effects in detail.
- Q. 4** List five most common types of computer system and differentiate workstation from personal computers.
- Q. 5** Explain how the processor's power is extended to the other devices.

