

Roll No.

Answer Sheet No. _____

Sig. of Candidate. _____

Sig. of Invigilator. _____

106

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 refers to O.C.R?
- A. On line central relay B. Optical control recognition
C. Operation control relay D. Optical character recognition
- (ii) In which monitor the electrons are fired?
- A. Active matrix LCD B. Passive matrix LCD
C. CRT D. Flat panel Monitor
- (iii) The software which translate a scanned text into editable electronic documents:
- A. P.C B. C.R.T
C. A.L.U D. O.C.R
- (iv) Which one is true about RAM?
- A. There are three types of RAM
B. There is dynamic RAM only
C. There is static Ram only
D. There are two RAMS i.e. static and dynamic RAM
- (v) Which one is true?
- A. RAM does not change rapidly and often B. ROM is non volatile
C. RAM is permanent or volatile D. ROM is volatile
- (vi) Which one is true?
- A. RISC is a kind of chip
B. CISC is a processor
C. Both CISC and RISC are processors
D. CISC is a chip, which contain large instruction sets
- (vii) Roentgen is the unit of:
- A. Radiation exposure B. Radiation Absorbed dose
C. Dose Equivalent (D.E) D. Quantity of Radioactive material
- (viii) Inductive reactance (XL) is measured in:
- A. Ohms – Volt B. Watt – Sec
C. Ohms D. Farad
- (ix) Which one of the following is correct:
- A. $P = \frac{V}{I}$ B. $V = PI$
C. $V = \frac{P}{I}$ D. $I = \frac{V}{P}$
- (x) Line isolation monitor is also called:
- A. Capacitive reactance B. Hazard voltage
C. Ground detector D. Low Impedance

For Examiner's use only:

Total Marks:

10

Marks Obtained:



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) Write three factors which effect processing speed?
- (ii) What is workstation and for what purpose it is used?
- (iii) Write the names of three magnetic storage devices.
- (iv) Write the names of at least three types of utility software.
- (v) Write two features of Cyrix processors.
- (vi) Write two lines on "CISC" and "RISC".
- (vii) Write important features of display screen.
- (viii) Write few arithmetic and logic operations.
- (ix) Write two lines on ALU of computers.
- (x) Write few lines on ROM and RAM.
- (xi) Define Faraday's Law of electro-magnetic induction.
- (xii) Define leakage current and what is the leakage current limit?
- (xiii) Define surgical diathermy and write two main functions of diathermy.
- (xiv) Write few types of safety?
- (xv) Write few hazards to environments.
- (xvi) Define "Danger and Safety".

SECTION – C (Marks 16)

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

- Q. 3**
 - (a) Write short note on "Electrical power Distribution".
 - (b) Write short note on "Transformer".
- Q. 4**
 - (a) Write short note on "Internet".
 - (b) Write short note on "Monitor".
- Q. 5**
 - (a) If a consumer has a total load of 2200 watts at 220 volts. What will be its leakage current limit?
 - (b) Write short note on "Pace maker and its types".