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Answer Sheet No. _____

Sig. of Candidate. _____

Sig. of Invigilator. _____

BASIC MEDICAL SCIENCES HSSC-I**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) 64% of the body mass is composed of _____
A. Protein B. Fat
C. Water D. Calcium
- (ii) DNA and RNA are located inside the cell in the _____
A. Cytoplasm B. Nucleolus
C. Mitochondria D. Cell wall
- (iii) The apex beat of heart is felt in the _____
A. Mid-axillary line B. Mid-clavicular line
C. 5th intercostals space D. Both B and C
- (iv) The left lung has _____
A. 2 lobes B. 3 lobes
C. 4 lobes D. 2 complete and a very small rudimentary 3rd lobe
- (v) Neck consists of _____
A. 7 vertebrae and 8 nerves B. 7 vertebrae and 7 nerves
C. 7 vertebrae and 6 nerves D. 7 vertebrae but no spinal nerves
- (vi) Mitral valve is located between _____
A. Left atrium and Left ventricle B. Right atrium and Right ventricle
C. Left atrium and Right atrium D. Left ventricle and Right ventricle
- (vii) Total number of milk-teeth in a child is _____
A. 24 B. 32
C. 28 D. 16
- (viii) The auditory tube from middle ear opens into _____
A. Nose B. Throat
C. Other ear D. None of these
- (ix) Total length of GIT in an adult is about _____
A. 50 feet B. 27 feet
C. 27 metres D. 3 metres
- (x) The urine clears _____ from blood.
A. Urea B. Creatinine
C. Excess water and salts D. All of these

For Examiner's use only:**Total Marks:****10****Marks Obtained:**



BASIC MEDICAL SCIENCES HSSC-I

9/6

Time allowed: 2:20 Hours

Total Marks Sections B and C: 40

NOTE: Answer any thirteen parts from Section 'B' and all the 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 26)

Q. 2 Attempt any THIRTEEN parts. The answer to each part should not exceed 2 to 4 lines. (13 x 2= 26)

- (i) Write down the position and names of all the arterial pulses which can be felt under the skin.
- (ii) What is the anatomical position of the opening of trachea and oesophagus in throat and in chest as regards antero-posterior plane?
- (iii) What are the functions and contents of Skin?
- (iv) Write down the names and functions of any four cranial nerves in a sequence.
- (v) Write briefly the functions of stomach and its secretions.
- (vi) What is a ball and socket type of joint? Also give two examples.
- (vii) What is the main difference between Mitosis and Meiosis which one is applicable in reproductive cells?
- (viii) Write down the functions of bones.
- (ix) Name the Master-gland in the body with the hormones produced by it.
- (x) Draw and label a diagram of human cell and its contents.
- (xi) Draw a labelled cross-section of heart.
- (xii) What is Parasympathetic nervous system?
- (xiii) What is the location of Appendix?
- (xiv) What is the Menstrual cycle? What changes occur in Uterus during it?
- (xv) How does bile help in digestion of fats?
- (xvi) Write down the names and locations of all the Salivary glands.
- (xvii) What are the contents and functions of Saliva?

SECTION – C (Marks 14)

Note: Attempt ALL the questions. All questions carry equal marks. (2 x 7 = 14)

Q. 3 Write down the functions carried out by the respiratory system with special mention of the structure and function at the alveolar level.

(OR)

Write down the names and functions of the genital organs in both male and female with special reference to ovulation and fertilization.

Q. 4 What is the composition of Bile? Also write about its production and storage.

(OR)

Draw and label a diagram of the whole brain, including all its lobes up to foramen magnum.