



RAN - 1903000203020072



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**S. Y. B. Sc. (MLT) (Sem. - III) Examination**

**March - 2023**

**Medical Laboratory Technology : Paper - VI**

**Human Anatomy and Physiology**

**સૂચના : / Instructions**

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
**Fill up strictly the details of signs on your answer book**

Name of the Examination:

**S. Y. B. Sc. (MLT) (Sem. - III)**

Name of the Subject :

**Medical Laboratory Technology : Paper - VI Human Anatomy and Physiology**

Subject Code No.: **1903000203020072**

Seat No.:

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Student's Signature

(2) All questions are compulsory.

***O.M.R. Sheet ભરવા અંગેની અગત્યની સૂચનાઓ આપેલ  
O.M.R. Sheetની પાછળ છાપેલ છે.***

***Important instructions to fillup O.M.R. Sheet  
are given on back side of the provided O.M.R. Sheet.***







- Q. 22.** Nerve fibres are surrounded by insulating fatty layer called:
- a) Hyaline sheath
  - b) Adipose sheath
  - c) Myelin sheath
  - d) Peritoneum sheath
- Q. 23.** The right atrioventricular valve has \_\_\_\_\_ flaps or cups.
- a) 1
  - b) 2
  - c) 3
  - d) 4
- Q. 24.** \_\_\_\_\_ discharges faster than any other part of the heart, it normally sets the heart rate and is called the pacemaker of the heart.
- a) SA node
  - b) AV node
  - c) Bundle of HIS
  - d) Purkinje fibres
- Q. 25.** The \_\_\_\_\_ is a single, long whip-like projections, containing microtubules, which form the 'tails' of spermatozoa
- a) Microvilli
  - b) Cilia
  - c) Flagella
  - d) All of the above
- Q. 26.** Squamous epithelium are also known as
- a) Cuboidal epithelium
  - b) Ppavement epithelium
  - c) Stratified epithelium
  - d) Basal epithelium
- Q. 27.** Axon part of neuron is highly modified for which function?
- a) Reception of stimuli from neuron
  - b) Conduction for neuron
  - c) Conduction of impulse away from neuron
  - d) Reception of internal stimuli

- Q. 28.** The compact bone is filled with the soft tissue called:
- a) Red bone marrow
  - b) White bone marrow
  - c) Yellow bone marrow
  - d) None of these
- Q. 29.** How many pairs of spinal nerves are there
- a) 31
  - b) 41
  - c) 38
  - d) 25
- Q. 30.** The fibrocartilage between the articulating surfaces of the bones of the knee joint is called:
- a) Semilunar cartilages
  - b) Hyaline cartilage
  - c) Elastic cartilage
  - d) None
- Q. 31.** Which nerves are attached to the brain and emerge from the skull?
- a) Cranial nerves
  - b) Thoracic nerves
  - c) Sacral nerves
  - d) Spinal nerves
- Q. 32.** \_\_\_\_\_ is a fluid connective tissue.
- a) Hyaline cartilage
  - b) Bone
  - c) Muscle
  - d) Blood
- Q. 33.** Tissue is a \_\_\_\_\_.
- a) Group of organ
  - b) Group of cell
  - c) Group of tissues
  - d) Group of organisms
- Q. 34.** Golgi apparatus takes part in:
- a) Carbohydrate synthesis
  - b) Lipid packaging
  - c) Oxidative synthesis
  - d) Protein packaging

- Q. 35.** The filament present in Cilia and Flagella are composed of
- a) Microfilament
  - b) Microtubules
  - c) Microfibrils
  - d) Microvilli
- Q. 36.** Ribosomes are made up of \_\_\_\_\_.
- a) RNA only
  - b) RNA and Protein
  - c) RNA, DNA and Protein
  - d) Nuclie acid, protein and lipids
- Q. 37.** Tunica media is made up of \_\_\_\_\_.
- a) muscular tissue
  - b) connective tissue
  - c) both a and b
  - d) epithelium tissue.
- Q. 38.** Cell was discovered by:
- a) Robert Hooke
  - b) Robert Swanson
  - c) Leeuwenhoek
  - d) Robert Brown
- Q. 39.** Which of the following organelles is called “sueidal bag” of the cell?
- a) Mitochondria
  - b) Endoplasmic reticulum
  - c) Lysosomes
  - d) Chloroplast
- Q. 40.** How many cervical nerves are there:
- a) C1-C9
  - b) C1-C8
  - c) C1-C7
  - d) C1-C5
- Q. 41.** Valves are present in veins prevent...
- a) Backflow of blood
  - b) Unidirectional blood flow
  - c) High pressure of blood
  - d) None of the above

- Q. 42.** Largest and the strongest bone of face is
- a) Maxilla
  - b) Parietal
  - c) Mandible
  - d) Frontal
- Q. 43.** Cellular respiration is performed by:
- a) Ribosomes
  - b) Lysosomes
  - c) Mitochondria
  - d) Chloroplast
- Q. 44.** The lobes of cerebral cortex includes:
- a) Parietal and frontal lobe
  - b) Occipital lobe
  - c) Temporal lobe
  - d) All of the above
- Q. 45.** In the trachea, Columnar epithelium is ciliated and also contains \_\_\_\_\_ which secretes mucus.
- a) Payers Patches
  - b) Goblet cells
  - c) Tyroid gland
  - d) All of the above
- Q. 46.** Skull bones are joined by tight connection called
- a) Sutures
  - b) Marrow
  - c) Sinuses
  - d) Lamellae
- Q. 47.** Nerve cells are called:
- a) Phegocytes
  - b) Neuro cells
  - c) Neuron
  - d) Schwann cells
- Q. 48.** The \_\_\_\_\_ is a component that monitor change in controlled condition and sends the input.
- a) Detector
  - b) Control center
  - c) Receptors
  - d) All of the above

**Q. 49.** The only movable bone of the skull is \_\_\_\_\_.

- |                 |              |
|-----------------|--------------|
| a) Frontal bone | b) Mandible  |
| c) Maxilla      | d) Occipital |

**Q. 50.** The largest lymph organ is:

- |            |              |
|------------|--------------|
| a) Stomach | b) Intestine |
| c) Spleen  | d) Tonils    |
- \_\_\_\_\_

**SPACE FOR ROUGH WORK**