

**DMLT/DMRT EXAMINATION BOARD, ODISHA**

**FIRST DMLT ANNUAL EXAMINATION-2020**

**QUESTIONS (PAPER-I)**

**(FULL MARK:70**

**TIME: 3hrs**

**Answer all questions  
(USE SEPARATE ANSWER BOOK FOR PART-A & PART-B)**

**PART-A (ANATOMY-35 MARKS)**

**1) Answer any four (5 x 4 = 20 marks)**

a) Write briefly about the human cell on the following

- i) Mitochondria ii) Endoplasmic reticulum

b) Write briefly about the stomach on the following points

- i) Parts ii) Capacity iii) Blood supply

c) Write briefly about the uterus on the following points

- i) Parts ii) Blood supply iii) 2 main supports

d) Write briefly about the knee joint on the following points

- i) Bones forming it ii) Movements of the joint iii) muscles involved

e) Write briefly about the thyroid gland on the following points

- i) Parts ii) Blood supply iii) 2 hormones released from it

**2) Fill in the blanks (1x 10 = 10 marks)**

a) There are \_\_\_\_\_ number of vertebrae in the human body.

b) There are \_\_\_\_\_ number of spinal segments in the spinal cord.

c) The bone present in thigh is called as \_\_\_\_\_

d) The bone present in arm is called as \_\_\_\_\_

e) The sacrum is formed by 5 \_\_\_\_\_ vertebrae.

f) Scaphoid is a \_\_\_\_\_ bone of hand.

g) Rods and cones are present in \_\_\_\_\_

h) Genioglossus is a muscle of \_\_\_\_\_

i) 4<sup>th</sup> cranial nerve is called as \_\_\_\_\_

j) The largest paranasal air sinus is called as \_\_\_\_\_

**3) Answer the following**

**(1 x 5 = 5 marks)**

- a) Name any 2 skull bones
- b) Name any 2 dural venous sinuses
- c) Name any 2 salivary glands
- d) Name any 2 branches of external carotid artery.
- e) Name any 2 muscles of mastication

**PART-B  
(PHYSIOLOGY-35 MARKS)**

**1. Write short notes on any three**

**(5 x 3 = 15 Marks)**

- a) Functions of saliva
- b) Anticoagulants
- c) Functions of CSF
- d) Spermatogenesis

**2. Mention True (T) or False (F)**

**(3 x 5 = 15 Marks)**

- a) LH Surge occurs after ovulation.
- b) Arterial CO<sub>2</sub> level is 40 mm Hg.
- c) Erythropoietin promotes platelet formation.
- d) Posterior Pituitary secretes ADH.
- e) Average daily secretion of sweat is 1L.

**3. Fill in the blanks**

**(2x5 = 10 Marks)**

- a) Life Span of neutrophil in Circulation is \_\_\_\_\_ hrs.
- b) Normal pH of extracellular fluid is \_\_\_\_\_.
- c) Pace- Maker of heart is \_\_\_\_\_.
- d) Bile pigments present in bile juice are \_\_\_\_\_ & \_\_\_\_\_.
- e) Cardiac Index is \_\_\_\_\_ liter.