



DMLT/DMRT EXAMINATION BOARD, ODISHA
FIRST D.M.L.T. Annual Exam, 2022

QUESTIONS (PAPER-I)

USE SEPARATE ANSWER SHEETS FOR SECTION A & B

(Section A - ANATOMY)

TIME : 3 Hours

FULL MARKS : 50

ANSWER ALL QUESTIONS

1. Answer any one

- a) Draw a labelled diagram of human heart & describe the arteries supplying it. (6 + 4 = 10)
OR
b) Describe the different parts of the Digestive system; Write in brief about the different parts, arterial supply & functions of the stomach. (4 + 2 + 2 + 2 = 10)

2. Write Short Notes on (any four)

(5 X 4 = 20)

- a) Ball- and - socket joint
b) Lobes of the Cerebral hemisphere
c) Parts of the Urinary system
d) Major Salivary glands
e) Knee joint

3. Fill in the blanks

(1 X 10 = 10)

- a) Right lungs has _____ lobes.
b) Bile is concentrated & stored in _____.
c) Total no of spinal nerves present are _____ pairs.
d) There are _____ number of phalanges in each hand.
e) Gaseous exchange occurs in the _____ of the lungs.
f) Example of a hyaline cartilage is _____.

g) _____ is the largest salivary gland.
h) _____ is the male reproductive organ.

3. Write True (T) or False (F).

(1 X 10 = 10)

- a) Superior vena cava opens into left atrium.
b) Patella is the largest sesamoid bone in the body.
c) Humerus is the largest long bone in human body.
d) Knee joint is a ball & socket type of synovial joint.
e) Spleen is a lymphatic organ.
f) Pancreas is both exocrine & endocrine gland.
g) Ovary is attached to the broad ligament of uterus.
h) Kidneys are a pair of excretory organs.
i) Diaphragm is the chief muscle of expiration.
j) Uterine tubes are also called Fallopian tubes.

(Section B - PHYSIOLOGY)

Marks - 50

1. Answer (any one)

- a. Define Blood; Write the composition of blood; Briefly describe the morphology, functions & normal counts of different blood cells . (2+3 +5 =10)
- b. Name the structures involved in respiration; What is internal & external respiration; Define Tidal volume & Vital capacity. (2+ 4 +4 =10)

2. Write Short Notes on (Any 4)

(5 x 4 = 20)

- a. Hemoglobin
b. ABO blood groups
c. Vital Capacity
d. Hormones of Anterior pituitary
e. Spermatogenesis

3. Write True (T) or False (F)

(2 x 5 = 10 marks)

- a. Kidney produces the hormone Erythropoietin.
b. Estrogens decrease plasma cholesterol levels.
c. Pulmonary veins carry deoxygenated blood.
d. Goiter is a clinical condition caused due to iodine deficiency.
e. Persons with type AB blood group are universal donors.

3. Fill in the blanks

(1 x 10 = 10 marks)

- a. _____ matures to form spermatozoa.
b. At rest, a normal human breathes _____ times a minute.
c. Growth hormone is secreted by _____ gland.
d. Saliva contains the digestive enzyme _____
e. Life span of RBCs is _____ days.
f. _____ is a natural anticoagulant.
g. In blood, oxygen is carried by _____ cells.
h. Vitamin _____ deficiency causes microcytic anemia.
i. Acetylcholine is secreted from _____
j. Antidiuretic hormone (ADH) is secreted from _____
