

# SWAMI VIVEKĀNANDA YOGA ANUSANDHĀNA SAMSTHĀNA

## स्वामी - विवेकानन्द - योगानुसन्धान - संस्थानम्

A University, established under Section 3 of the UGC Act, 1956  
(Eknath Bhavan, # 19, Gavipuram Circle, Kempegowda Nagar, Bangalore 560 019, India)

### BS T 101 Anatomy & Physiology

Date: 26.03.2012

Time: 10.00 am – 1.00pm

Max. Marks: 100

#### 1. Long type question (any three)

15\*3=45

- Describe in detail about digestive system of human.
- Describe in detail about respiratory system of human and add a note on mechanism of breathing.
- Describe the structure and function of human fore brain.
- Describe the structure and types of neuron.
- Describe the structure and working mechanism of heart.

#### 2. Short notes (any four)

5\*4=20

- Pituitary gland
- Bone.
- W.B.C.
- Cerebellum
- Adipose tissue.

#### 3. Diagram (any two)

5\*2=10

- L. S. of heart.
- Structure of eye
- Structure of cell.

#### 4. Answer the following questions

1\*10=10

- Which organ of human secretes insulin?
- What enzyme is secreted by the salivary gland of human?
- Which portion of the cell is called "suicide bag"?
- Give an example of epithelial tissue.
- Give an example of ball and socket joint.
- What is the life span of R B C?
- What is the duration of time taken by single cardiac cycle?
- Which is the chief excretory material of human being?

- ix. What the function of prolactin?  
x. Which part of the body thyroid gland is situated?

**5. Answer the following selecting correct words from the bracket**

**1\*10=10**

- i. Opening of inferior venacava is guarded by \_\_\_ valve in the right atrium.  
(Bicuspid valve, tricuspid valve, semilunar valve)  
ii. Which organelle in the cytoplasm helps in the protein synthesis?  
(Mitochondria, ribosome, endoplasmic reticulum, peroxisome)  
iii. The heart contains \_\_\_ muscles.  
(Cardiac muscle, striated muscle, non striated muscle)  
iv. In which tissue you see matrix.  
(Connective tissue, epithelial tissue, nervous tissue)  
v. Which respiratory pigments are found in the blood?  
(Hemoglobin, myoglobin, hemocyanin)  
vi. Which gland is called as 3F gland?  
(Pituitary gland, Adrenal gland, pancreas.)  
vii. Which part of the nephron ultra-filtration is takes place?  
(Bowman capsule, PCT, DCT, CD)  
viii. There are ----- pairs of spinal nerves in man.  
(21, 41, 51, 31)  
ix. -----is the sensitive layer of the eye.  
(Sclera, retina, cornea,)  
x. -----helps in converting fibrinogen into fibrin.  
(Thromboplastin, Thrombin, prothrombin)

**6. Match the following appropriate words of column '1' with 2**

**1\*5=5**

Column-1	column-2
1. Ptyalin	a) Ear
2. GH	b) Adrenal gland
3. Rod cell	c) Salivary gland
4. Organ of corti	d) Thyroid gland
5. Epinephrine	e) Eye