Enrollment No: _____ Exam Seat No:_____

C.U.SHAH UNIVERSITY

Winter Examination-2018

Subject Name: Human Anatomy & Physiology-II

Subject Code: 4PS02HAP2 **Branch: B. Pharm**

Semester: 2 **Date : 29/10/2018** **Time : 02:30 To 05:30** **Marks : 70**

Instructions:

(1) Use of Programmable calculator & any other electronic instrument is prohibited.
(2) Instructions written on main answer book are strictly to be obeyed.
(3) Draw neat diagrams and figures (if necessary) at right places.
(4) Assume suitable data if needed.

Q-1 **Attempt the following questions:** **(14)**

a) What is alveoli?
b) Define vital capacity
c) What is synapse?
d) Define neurotransmitter
e) Which cells are responsible for secretion of insulin?
f) Define postganglionic nerve
g) Define action potential
h) What is CSF?
i) Give the name of smallest bones of body present in ear.
j) What is asthama?
k) Define spermetogenesis.
l) Which cells are responsible for secretion of rennin?
m) Define residual volume
n) What if glaucoma?

Attempt any four questions from Q-2 to Q-8

Q-2 **Attempt all questions** **(14)**

a) What is JG cell? Describe in detail about rennin Angiotensin Aldosterone system
b) Define nephron. Draw a labelled diagram of nephron

Q-3 **Attempt all questions** **(14)**

a) Describe signal transduction mechanism at synapse
b) What is neuron? Classify types of neuron. Draw a labelled diagram of neuron

Q-4 **Attempt all questions** **(14)**

a) What is ANS? Differentiate sympathetic and parasympathetic nerve system
b) Describe in detail about reflex arc

Q-5 **Attempt all questions** **(14)**

a) Enlist various parts of brain. Write a short note on blood brain barrier
b) Enlist cranial nerves. Describe in detail about vagus nerve

Q-6 **Attempt all questions** **(14)**

a) What is eye? Draw a labelled diagram of eye
b) Describe in detail about physiology of urine formation

Q-7 **Attempt all questions** **(14)**

a) Enlist hormones secreted from pituitary gland. Describe in detail about growth hormone

b) Describe in detail about physiology of respiration

Q-8 **Attempt all questions** **(14)**

a) Define oogenesis. Draw a labelled diagram of female reproductive system

b) Describe in detail about physiology of menstruation