

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Winter Examination-2015

Subject Name: Human Anatomy & Physiology-II

Subject Code: 4PS02HAP2

Branch: B.Pharm

Semester: 2

Date: 21/11/2015

Time: 10:30 To 1:30

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

- (a) Define Tidal volume
- (b) What is reflex arc?
- (c) Define neurotransmitter
- (d) What is pre-ganglionic nerve?
- (e) What are the types of nerve system?
- (f) Define sensory receptor
- (g) What is full name of COPD?
- (h) Define Internal respiration
- (i) What is Glaucoma?
- (j) Give the location of Juxtra Glomerulus cell
- (k) Which endocrine gland also know as suprarenal gland?
- (l) Define spermetogenesis
- (m) What is benign prostatic hyperplasia?
- (n) Define action potential

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

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

- (a) Describe physiology of urine formation
- (b) Draw a well labeled diagram of nephron.

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

- (a) Describe in detail about physiology of respiration
- (b) Explain Mechanism and regulation of Respiration

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

- (a) Describe the process of Signal transmission at synapses
- (b) Write difference between following
 - i) Sympathetic and parasympathetic nervous system
 - ii) Cerebrum and cerebellum



- Q-5** **Attempt all questions** (14)
(a) Write a note on cerebro-spinal fluid (CSF).
(b) Enumerate parts of brain stem. Describe in detail the medulla oblongata.
- Q-6** **Attempt all questions** (14)
(a) Draw a labeled internal diagram of eye ball. Write functions of various parts of eye
(b) Draw a labeled diagram of male reproductive system and a brief note of spermatogenesis.
- Q-7** **Attempt all questions** (14)
(a) Enlist hormones secreted from anterior pituitary gland. Write in detail about Growth hormone.
(b) Enumerate hormones of pancreas. Write functions of insulin
- Q-8** **Attempt all questions** (14)
(a) Draw a labeled diagram of female reproductive system. Write a note on physiology of menstruation.
(b) Describe functioning of Rennin Angiotensin System.

