	<u>Unean</u>
Name:	A
Roll No.:	A State O'S marining and Explana
Invigilator's Signature:	

CS/B.Pharm/SEM-4/PT-405/2013

2013 PHYSIOLOGY

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP - A (Multiple Choice Type Questions)

1. Choose the correct alternatives for any ten of the following:

 $10 \times 1 = 10$

- i) The transmission of sound waves through the tympanic cavity of the middle ear occurs through
 - a) air

b) nerve fibres

c) bone

- d) fluid.
- ii) Among the organs largest amount of heat is produced by
 - a) Brain

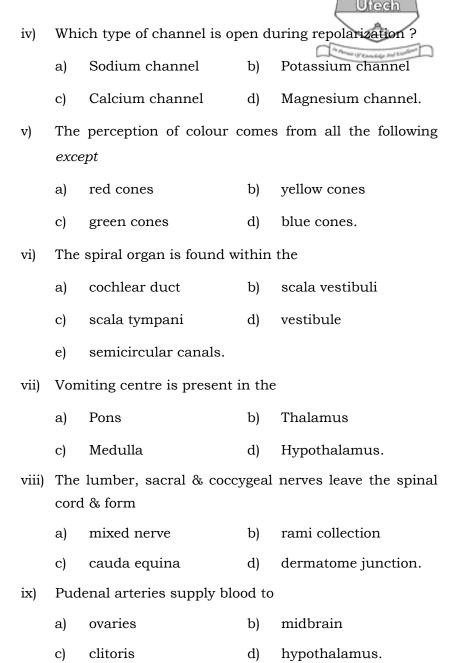
b) Liver

c) Heart

- d) Intestine.
- iii) CSF is present in
 - a) central canal of spinal cord
 - b) right and left ventricles of the heart
 - c) between dura and arachnoid membranes
 - d) all are these.

4227 [Turn over

CS/B.Pharm/SEM-4/PT-405/2013



4227



- x) In child baring age which bacteria is responsible for making vaginal cavity acidic?
 - a) Lactobacillus acidophilus
 - b) E. coli
 - c) S. typhi
 - d) Cynobacteriun tuberculi.
- xi) Seminal vesicles secretion contributes to
 - a) 60% of semen's total volume
 - b) 50% of semen's total volume
 - c) 70% of semen's total volume
 - d) 40% of semen's total volume.
- xii) Which of the following types of papillae has no taste buds associated with them?
 - a) circumvallate
- b) filiform

c) foliate

d) fungiform.

GROUP - B

(Short Answer Type Questions)

Answer any three of the following.

 $3 \times 5 = 15$

- 2. What are the different parts of a neurone? Give a neat diagram of a neurone.
- 3. Write a short note on mammary glands.
- 4. Define Reflex. Draw & label a Reflex arc. Illustrate with example. 1+2+2
- 5. Write a short note on receptors.
- 6. Explain the synthesis, storage and release of Acetylcholine.

4227

3

[Turn over

CS/B.Pharm/SEM-4/PT-405/2013



GROUP - C

(Long Answer Type Questions

Answer any *three* of the following. $3 \times 15 = 45$

- 7. Briefly discuss the structure & functions of uterus. Discuss the series of phases in menstrual cycle. 6 + 9
- 8. What do you mean by decussation? How it is controlling the cerebral motor reflex? How are your memory, intelligence, speech, complex movement controlled by cerebrum?

2 + 3 + 10

- 9. a) What is pyrexia?
 - b) What do you mean by core and shell temperature?
 - c) Write down the symptoms of hypothermia.
 - d) Discuss different factors affecting body temperature.

2 + 3 + 3 + 7

- 10. a) Explain the physiology of hearing.
 - b) Write a short note on Olfactory bulbs.
 - c) Give an example of taste modifier protein and its function. 8+5+2
- 11. a) Classify and characterize the different stages of sleep. What is circadian rhythm?
 - b) Explain the action of adrenergic receptors on the heart and CIT. 8 + 7

4227