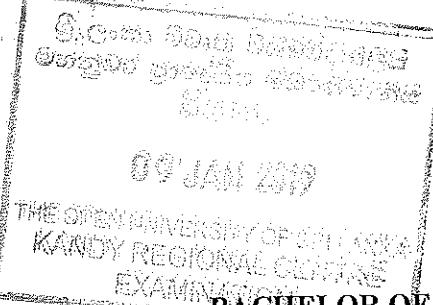


Sample

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09 JAN 2019

THE OPEN UNIVERSITY OF SRI LANKA
KANDY REGIONAL CENTRE

EXAM

BACHELOR OF PHARMACY HONOURS
BSU3431 - HUMAN PHYSIOLOGY – LEVEL 3
CONTINUOUS ASSESSMENT II (NBT II)

DURATION: ONE HOUR

DATE: 09th JANUARY 2019

TIME: 09.00 AM – 10.00 AM

REGISTRATION NO:

IMPORTANT INSTRUCTIONS/ INFORMATIONS TO CANDIDATES

- This question paper consists of 10 pages with 20 Multiple Choice Questions (Part A) and 02 Structured Essay Questions (Part B).
- Write your Registration Number in the space provided.
- Answer ALL questions.
- **Multiple Choice Questions (Part A):** Indicate answers in the answer sheet provided by placing a cross (X) in INK in the relevant cage. (answers in pencil will NOT be marked)
- **Structured Essay Questions (Part B):** Write answers within the space provided.
- Do not remove any page/part of this question paper from the examination hall.
- Mobile phones and any other electronic equipment are NOT allowed. Leave them outside.
- Please fill the address sheet (See the last page).

BACHELOR OF PHARMACY HONOURS
BSU3431 - HUMAN PHYSIOLOGY- LEVEL3
CONTINUOUS ASSESSMENT II (NBT II)

REGISTRATION NO:

ANSWER SHEET FOR PART A

Q. No.	(a)	(b)	(c)	(d)
1				
2				
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REGISTRATION NO:

Part A – Multiple Choice Questions*(40 marks)*

Choose the most suitable / best answer and indicate with a 'X' in the answer sheet provided.

1. Water reabsorption occurs in the nephron by
 - a) osmosis
 - b) simple diffusion
 - c) facilitated diffusion
 - d) active transport

2. A substance which is not found in the urine of a healthy individual includes
 - a) water
 - b) urea
 - c) glucose
 - d) hydrogen ions

3. A pituitary hormone which acts mainly on the kidney is
 - a) adrenocorticotrophic hormone
 - b) antidiuretic hormone
 - c) prolactin
 - d) growth hormone

4. A substance which is secreted to renal tubule includes
 - a) sodium ions
 - b) glucose
 - c) amino acids
 - d) penicillin

5. Which one of the following statement is correct regarding the formation of urine?
 - a) Glomerular filtration is a selective process
 - b) The descending limb of loop of Henle is impermeable to water
 - c) Tubular secretion occurs mainly in the proximal convoluted tubule
 - d) Tubular reabsorption is a non – selective process

6. Reabsorption of sodium is the main function of

- a) cortisol
- b) aldosterone
- c) antidiuretic hormone
- d) epinephrine

7. Select the best example for a positive feedback effect of hormonal action.

- a) Blood sugar regulation
- b) Thermoregulation
- c) Normal parturition (labour)
- d) Blood pressure regulation

8. A hormone secreted by the anterior pituitary is

- a) growth hormone
- b) thyroxin
- c) antidiuretic hormone
- d) none of the above

9. Basal metabolic rate is regulated by

- a) oxytocin
- b) thyroxin
- c) progesterone
- d) parathyroid hormone

10. Regulation of serum calcium level is the main function of

- a) prolactin
- b) triiodothyroxine
- c) parathyroid hormone
- d) insulin

11. A steroid hormone includes

- a) cortisol
- b) epinephrine
- c) thyroxin
- d) calcitonin

12. Testosterone synthesis is the main function of

- a) primary spermatocytes
- b) Sertoli cells
- c) spermatozoa
- d) Leydig cells

13. Cell division by meiosis occurs in the

- a) seminiferous tubules
- b) skin
- c) gastrointestinal epithelium
- d) respiratory epithelium

14. Which one of the following is incorrect regarding ovarian cycle?

- a) Follicle stimulating hormone stimulates follicular development
- b) High blood levels of luteinizing hormone cause the ovulation
- c) Developing follicles produce follicle stimulating hormone
- d) Corpus luteum secretes progesterone

15. A hormone used to detect pregnancy is

- a) follicle stimulating hormone
- b) human chorionic gonadotropin
- c) luteinizing hormone
- d) progesterone

16. A hormone which stimulates milk production in the breasts is

- a) follicle stimulating hormone
- b) thyroxine
- c) prolactin
- d) progesterone

17. A hormone which acts on the uterus is

- a) oxytocin
- b) adrenocorticotropic hormone
- c) antidiuretic hormone
- d) prolactin

18. Posterior columns of the spinal cord transmit the sensation of
- a) touch
 - b) joint position sense
 - c) vibration
 - d) all of the above
19. The functional area of hearing in the brain is
- a) occipital lobe
 - b) temporal lobe
 - c) parietal lobe
 - d) frontal lobe
20. Which one of the following statement is incorrect regarding colour blindness?
- a) It is detected by ophthalmoscopy
 - b) It is a X – linked disorder
 - c) Ishihara colour charts are used to detect it
 - d) It affects males than females

REGISTRATION NO:

Part B –Structured Essay Questions

(60 marks)

Write answers in the space provided.

1. a) What is meant by hypothalamo – hypophyseal tract? (4 marks)

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- b) Briefly describe the action of steroid and non – steroid hormones. (10 marks)

c) Name two (02) disorders of growth hormone secretion. (2 x 2 = 4 marks)

I.

II.

d) List three (03) common thyroid disorders. (2 x 3 = 6 marks)

I.

II.

III.

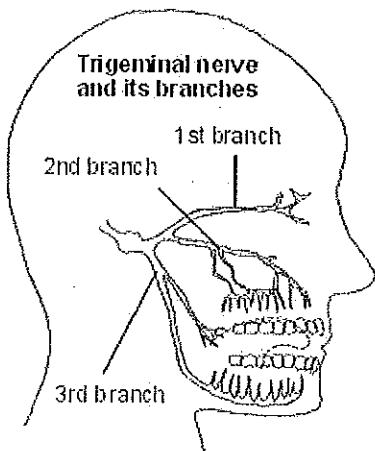
e) List three (03) renal changes in pregnancy. (2 x 3 = 6 marks)

I.

II.

III.

2. a) A picture of main branches of trigeminal nerve (cranial nerve V) is given below.



I. Identify three (03) main branches mentioned above. (2 x 3 = 6 marks)

1st branch -

2nd branch -

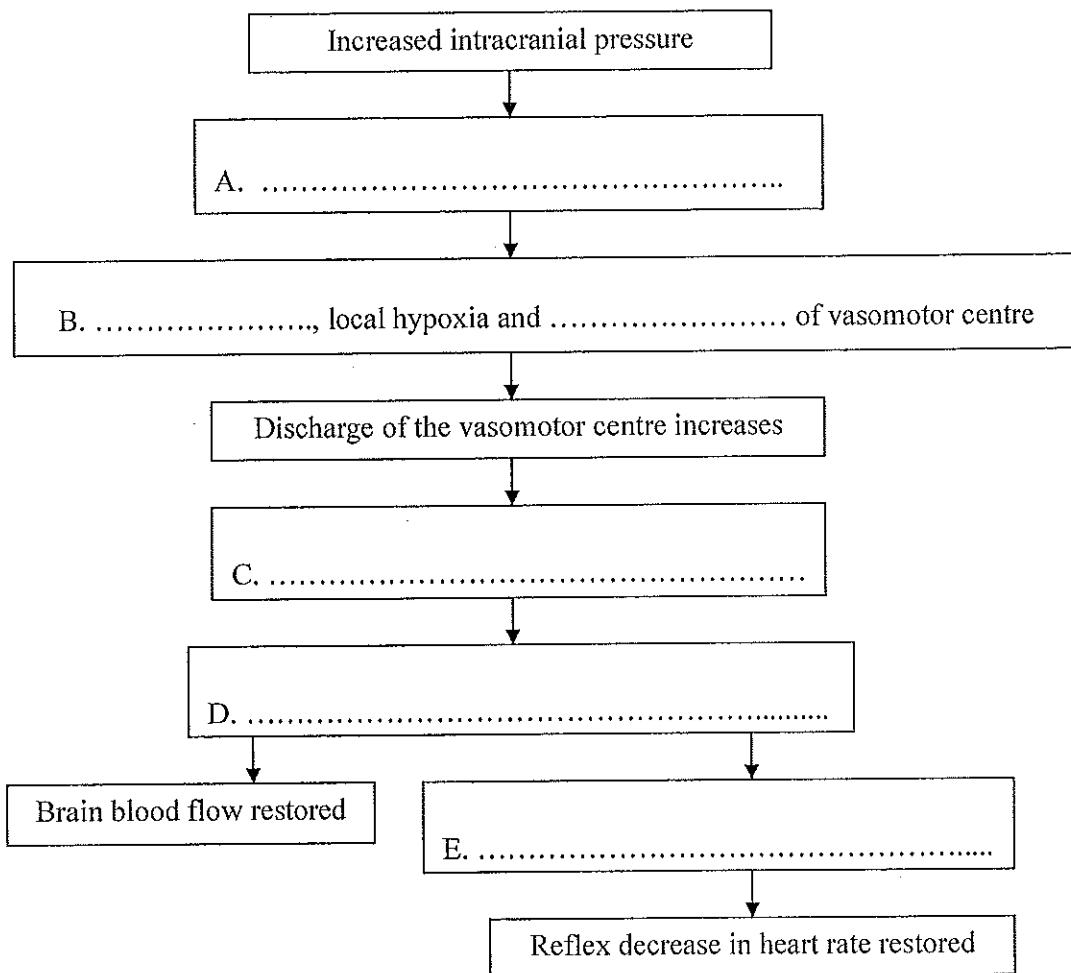
3rd branch -

II. Name two (02) trigeminal nerve nuclei. (2 x 2 = 4 marks)

I.

II.

- b) Identify events A, B, C, D and E in the following chart regarding a patient with head injury. $(2 \times 5 = 10 \text{ marks})$



- c) List three (03) functions of the hypothalamus. $(2 \times 3 = 6 \text{ marks})$

- I.
- II.
- III.

- d) List two (02) main effects occurred during the aging in the respiratory system. $(2 \times 2 = 4 \text{ marks})$

- I.
- II.

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Reg. No:.....

Name:.....

Address:

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