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THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF BASIC SCIENCES
ACADEMIC YEAR 2018/2019 – SEMESTER I

BACHELOR OF PHARMACY HONOURS
BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS
BSU3230 - HUMAN ANATOMY – LEVEL 3
CONTINUOUS ASSESSMENT II (NBT II)   **DURATION: ONE HOUR**

DATE:03rd 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 Question (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 last page).**

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REGISTRATION NO:...........................

ANSWER SHEET FOR PART A

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

Part A – Multiple Choice Questions

(40 marks)

Choose the most suitable/ best answer (Best of four) and indicate with a 'X' in the answer sheet provided.

1. Skeletal muscles are found in the
    a) heart
    b) diaphragm
    c) bladder
    d) ureters

2. A component of rotator cuff muscles includes
    a) subscapularis
    b) pectoralis major
    c) latissimus dorsi
    d) deltoid

3. Main muscles involved in respiration include
    a) diaphragm
    b) internal intercostal
    c) external intercostal
    d) all of the above

4. The deepest muscle of the abdominal wall is
    a) external oblique
    b) rectus abdominis
    c) transverse abdominis
    d) none of the above

5. Which one of the following statement is <u>correct</u> regarding the function/s of the skeletal system?
    a) protection of vital organs
    b) maintain upright position of the body
    c) help in movement of the joints
    d) all of the above

6. In a typical long bone
   a) periosteum covers the inner surface of the bone
   b) yellow bone marrow produces red blood cells
   c) diaphysis is seen at the ends of a bone
   d) red bone marrow produces red blood cells

7. Which one of the following is the <u>incorrect</u> statement regarding the skull?
   a) It protects brain
   b) It provides opening for the passage of air
   c) It has long bones
   d) It provides site for the attachment of neck muscles

8. Cranial bones include
   a) temporal bones
   b) occipital bone
   c) sphenoid bone
   d) all of the above

9. Which one of the following is <u>not</u> a bone in the upper limb?
   a) Tibia
   b) Humerus
   c) Radius
   d) Ulna

10. Irregular bones are typically found in the
    a) upper limb
    b) vertebral column
    c) lower limb
    d) rib cage

11. Bones of the knee joint are
    a) humerus and scapula
    b) femur and tibia
    c) femur and pelvis
    d) tibia and fibula

12. The basic building block of the nervous system is

    a) cerebrum

    b) astrocyte

    c) neuron

    d) brain stem

13. Which one of the following statement is <u>incorrect</u> regarding nervous tissue?

    a) Neurons undergo mitosis

    b) Neurons are associated with electrical signaling

    c) Neuroglia provides support for the neuron

    d) Myelin sheath helps to increase the speed of nerve impulses

14. Cerebrospinal fluid (CSF) is produced in the

    a) spinal cord

    b) cerebellum

    c) pituitary gland

    d) ventricles of brain

15. Which one of the following statement is <u>incorrect</u> regarding the human brain?

    a) Cortex is involved in consciousness

    b) Basal ganglia are groups of white matter

    c) Cerebellum receives information from cortex

    d) Medulla oblongata contains large amount of white matter

16. In autonomic nervous system

    a) parasympathetic neurons release norepinephrine

    b) sympathetic innervation decreases heart rate

    c) sympathetic neurons release norepinephrine

    d) parasympathetic innervation dilates the pupils of the eyes

17. Area of the eye which contains photoreceptors is

    a) retina

    b) lens

    c) cornea

    d) sclera

18. Structure involved in hearing is
   a) semicircular canals
   b) utricle
   c) saccule
   d) organ of Corti

19. Somatic senses include
   a) taste
   b) pain
   c) eqilibrium
   d) vision

20. Area involved in smelling is
   a) nostrils
   b) nasopharynx
   c) olfactory region
   d) sphenoid sinus

REGISTRATION NO: ....

Part B – Structured Essay Questions
(60 marks)

Write answers in the space provided.

1) **A.** Name **two (02)** extensor muscles of the thigh.   (2 x 2 = 4 marks)

  i.   ....

  ii. ....

B. List **three (03)** types of cartilage found in the human body. Give one example for each type you mentioned.   (2 x 3 = 6 marks)

Type	Example
i.	
ii.	
iii.	

C. Briefly describe the **five** major divisions of vertebral column.   (12 marks)

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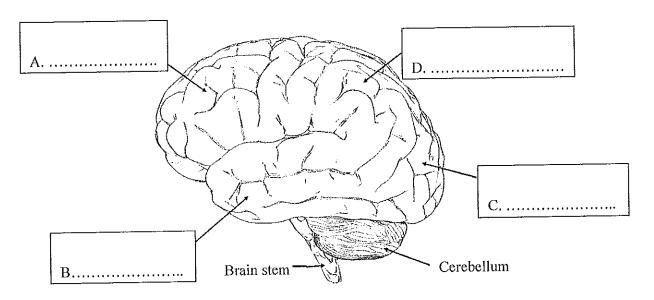
D. List **Five (05)** types of synovial joins and give one example for each type you
mentioned. (2 x 5 = 10 marks)

Type	Example
i.	
ii.	
iii.	
iv.	
v.	

2) A. Draw a clearly labelled diagram showing the structure of a typical neuron. (10 marks)

8

B. Diagram of the human brain is given below. Identify the lobes named A, B, C and D.

(2 x 4 = 8 marks)

A. ....

D. ....

C. ....

B. ....

Brain stem

Cerebellum
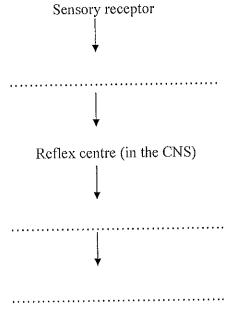
C. List **two (02)** types of sensory receptors in the body.   (2 x 2 = 4 marks)

i. ....

ii. ....

D. Write the missing components of the reflex arc.   (2 x 3 = 6 marks)

Sensory receptor

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Reflex centre (in the CNS)

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Reg. No:...

Name:...
Address:...
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