Applied Physics Ex. Number of questions:3 Time allowed:3 hours Total Marks: 45Marks

Diploma Degree

All questions are to be answered, 15marks for each question

1. Discuss types , mechanism of action , indications and

contraindications of magnetic therapy.

- 2. Give an account on diadynamic currents.
- 3. Discuss methods of transmission of heat with enumeration of

example for each method.

Best wishes.



Department of physiology Time allowed: Three hours Total marks: 45

Physiology **Diploma Physical Medicine**

Tanta University Faculty of Medicine Code: PRR 8001 Date: 28 /2/2022

All the questions must be answered:

- 1-Discuss : Functions of basal ganglia. (10 marks)
- 2- State: Manifestations of complete spinal cord transection. (10 marks)
- **3-Discuss : Mechanism and significance of oxygen debt.** (10 marks)

All the following must be answered by only one choice (15 marks)

1- Sympathetic stimulation could induče:

- a. Miosis. c. Bronchoconstriction.
- d. Pupil dilatation . b. Increase gastric secretion.
- 2- Which of the following could induce cyanosis:
 - a. Stagnant hypoxia. c. Histotoxic hypoxia.
 - b. CO poisoning. d. Anemic hypoxia.

3- Blood group AB is characterized by:

- a. Absence of A and B agglutinogen on RBCs.
- b. Presence of alpha and beta agglutinin in plasma.
- c. Presence of A and B agglutinogen on RBCs.
- d. It is universal donor.
- 4- Which of the following Induce coronary vasodilatation :
 - a. Vagal stimulation. c. Increase cardiac metabolic activity.
 - b. Muscarinic stimulation.
- d. Stimulation of alpha 1 adrenergic receptors.
- 5- Which of the following could induce edema:
 - a. Decrease capillary hydrostatic pressure.
 - b. Increase capillary hydrostatic pressure.
- c. Vasoconstriction of arterioles. d. Increase plasma protein level.
- 6- Which of the following help platelet aggregation in haemostasis:
- a. Prothrombin activator.
- b. Thromboxan A2.
- 7- Which of the following is CORRECT regarding peripheral chemoreceptors:

1

- a. Its stimulation induce bradycardia.
- c. Mainly stimulated by alkalosis.

c. Thrombin.

d. Fibrinogen.

- b. Mainly stimulated by hypoxia.
- d. Its stimulation decrease respiratory rate.

Look to back

8- Pain sensation is characterized by which of the following :

- a. Its receptors are rapidly adapted .
- b. Its receptors are moderately adapted.
- c. Its receptors are free nerve endings.
- d. Carried by dorsal column of the spinal cord.

9- Glucocorticoids could decrease blood level of :

- a. Free fatty acids. c. Esinophils.
- b. Glucose. d. RBCs.

10- Which of the following is CORRECT regarding referred pain :

- a. Could explained by dorsal root branching mechanism.
- b. Could explained by convergence facilitation mechanism.
- c. Never occur with visceral pain.
- d. Always occur with cutaneous pain.

11- Which of the following could increase heart rate:

- a. Stimulation to beta 1 adrenergic receptors.
- b. Venodilatation.
- c. Stimulation to muscarinic receptors.
- d. Stimulation to arterial baroreceptors.

12- Intrinsic mechanism of blood coagulation is initiated by:

- a. Contact with rough surface. c. Activation of factor X.
- b. Injury to blood vessels.

d. Activation of factor VII.

- 0. Injury to blood vessels.
- 13- Vasodilatation of arterioles could induce :
 - a. Increase peripheral vascular resistance.
 - b. Decrease venous return.
 - c. Decrease central venous pressure.
 - d. Decrease peripheral vascular resistance.

14- Which of the following could induce respiratory alkalosis:

- a. Restrictive lung disease. c. Hypoventilation.
- b. Renal failure. d. Hyperventilation.

15- Which of the following is CORRECT as regard blood PH:

- a. Inversely proportionate with arterial HCO₃.
- b. Directly proportionate with arterial PCO₂.
- c. Directly proportionate with arterial HCO₃.
- d. Normally equal 7.1 for arterial blood.

إمتحان الشفهى يوم الثلاثاء 1 /2022/34 في قسم الفسيولوجي التاسعة صباحا

2

Diploma of Physical Medicine

Tanta University Faculty of Medicine Human Anatomy & Embryology Dep. Date:28/02 /2022 Number of Questions:5

Time Allowed: 3 Hours Total: 60 Marks

PHYSICAL MEDICINE

All questions should be answered

1- Discuss the branches and applied anatomy of the vagus nerve.

(12 marks)

- 2- Discuss with an illustration the external features of the media surface of the cerebral hemisphere. (12 marks)
- 3- ENUMERATE the movements occur in the knee joint and mentior the muscles responsible for each movement and there nerve supply.
 (12 marks)
- 4-WHAT are the joints connecting the second and third lumba vertebrae and describe these joints? (12 marks)
- 5- COMPARE between the flexor and extensor retinacula of the wris joint as regard their attachment, deep relations and clinica importance. (12 marks)

END OF THE EXAM

NB: Oral and Practical Examination: Just after the end of written exam on the same day at 2nd floor at Anatomy department WITH BEST WISHES

Committee of the exam: Prof. Dr. Amal Halawa, Prof. Dr. Mohamed ElSeidy Prof. Dr. Morsy Aboelgoud

