Aswan University Faculty of Medicine Dep. of Medical Physiology Sunday, 22/ 5 /2022

MS." Medical Physiology"

Final Physiology Exam "Third Paper".

Time allowed: 3 hours.

Total Marks: 200

Answer the following questions:

Central Nervous System:

1.

(130 Marks)

1. A 60 year old man presents in the clinic with complaints of dizziness, feeling like the room is spinning , loss of balance, ringing in the ears and sweating. Symptoms and signs are in consistence with Meniere disease .

- i. Define Meniere disease and mention its underlying pathophysiology?
- ii. What is meant by vertigo, mention its causes and describe its mechanism? ↓ (15 Marks)
- iii. What are the autonomic effects of semicircular canal stimulation? (10 Marks)

2. Discuss functions of the basal ganglia and ONE of its disorders?

Marks)
Marke

1.

- 3. Mention types of stretch reflex and FIVE of its properties (30 Marks)
 4. Describe the normal adult brain waves? (30 Marks)
 5. Special sense: (30 Marks)
 Give an account on: (50 Marks)
 1-Transmission of sound waves in the cochlea? (15 Marks)
 2- Attenuation reflex? (10 Marks)
- 3- Light and dark adaptation in vision?(10 Marks)4- Mechanism of accommodation? ?(15 Marks)(10 Marks)(10 Marks)

Autonomic Nervous System (ANS):

(20 Marks)

1- Compare between functions of sympathetic and parasympathetic supply to pelvic organs?.
2- Mention types of acetylcholine receptors and drugs acting on them?

(10 Marks)

Good Luck. Prof. Mahmoud Raafat & Exam committee