

Tanta University  
Faculty of Medicine  
Department of General Surgery

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Diploma of Ophthalmology (According to 2013 Bylaws)

General Surgery Examination – February 2022

Date: 23 Feb 2022

Time: 3 hours

Total Marks: 45

All questions should be answered

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- 1) Causes, types, presentation and management of Septic Shock? (15 Marks)
- 2) Types. clinical picture, investigation and management of Thyrotoxicosis? (15 Marks)
- 3) Differential diagnosis, investigations and management of cervical lymphadenopathy? (15 Marks)

GOOD LUCK

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الامتحان الاكلينيكي و الشفوى بقسم الجراحة العامة بالمستشفى التعليمى الفرنساوى

(الدور السابع)

يوم السبت ٥ مارس ٢٠٢٢ الساعة الثامنة صباحا

Tanta university  
Department of ophthalmology  
Diploma Examination  
Ocular physiology  
2022

All questions must be answered

- 1-Discuss Horner syndrome (5 marks)
- 2-Factors affecting visual acuity (5 marks)
- 3-Function of retinal pigment epithelium (5 marks)

**Multiple choice questions: Chose only correct answer (1 mark each question)**

**1-Which of the following receptors suppress aqueous outflow?**

- A- Alpha 2agonists
- B- Beta adrenergic agonists
- C-Muscarinic antagonists
- D- cholinergic antagonists

**2- What is the minimum threshold of vernier hyperacuity**

- A-1 second of arc
- B-10 seconds of arc
- C-30 seconds of arc
- D-1 minute of arc

**3- Regarding vitamin A**

- A-It is a fat soluble vitamin
- B-The provitamin is found in green vegetables
- C-The provitamin is converted into retinol in the small intestine
- D-It may be stored in the brain

**4- Uhthoff's phenomenon describes**

- A-Inability distinguish faces
- B-Decrease in vision with the increase in temperature
- C-Skew eye movements
- D-Decrease of vision with neck flexion

**5-Glucose metabolism in the lens principally occurs by**

- A-Anaerobic glycolysis
- B-Anaerobic metabolism
- C-Hexose monophosphate shunt
- D-Sorbitol pathway

**6-When produced ,the aqueous humor passes out through the membranes of**

- A-Trabecular meshwork
- B-Corneal endothelial cells
- C-Non pigmented cells of the ciliary body
- D-Pigmented cells of the ciliary body

**7-The bezold-Brucke phenomenon describes which of the following :**

- A-All hues appear yellow-whites as the luminosity increases
- B- All hues appear yellow-whites as the luminosity decreases
- C- All hues appear achromatic as the luminosity increases
- D- All hues appear achromatic as the luminosity decreases

**8-Motion blindness occurs as a result of lesion in the:**

A-Frontal lobe

B-temporal gyrus

C-superior temporal sulcus

D-inferior temporal sulcus

**9-The following is present in higher concentration in the tear than in serum:**

A-Sodium

B-Potassium

C-IgG

D-Glucose

**10-Which of the following is not involved with vertical saccades**

A-Frontal eye field

B-Paramedian reticular formation

C-Trochlear nucleus

D-oculomotor nucleus

**11-During caloric testing, cold water is irrigated in the right ear. Which direction is the fast phase of nystagmus :**

A-UP

B-Down

C-Left

D-Right

**12-which of the following can be used to isolate a cone response from ERG?**

A-Dim background lightening condition

B-50HZ flicker

C-10 HZ flicker

D-Single flash ERG

**13-Rgarding a relative afferent pupillary defect, which of the following statements is accurate ?**

A-It cannot be tested if one pupil is pharmacologically dilated

B-It cannot be tested if both pupils are pharmacologically dilated

C-It is likely occur with cataract

D-Its always associated with anisocoria

**14-Where is the physiological blind spot relative to the center of the visual filed?**

A-superior

B-Inferior

C-Nasal

D-Temporal

**15-Which of the following is the single most important factor in maintaining corneal transparency**

A-endothelial pump

B-constant refractive index of all layer

c-relative acellularity and matrix organization

D-Tear film

**Good luck**