## Tanta University Faculty of Medicine Internal Medicine Department

#### MASTER DEGREE OF OPHTHALMOLOGY/ FEBERUARY 2018

#### All questions must be answered

- 1. Clinical picture, investigations and treatment of Cushing syndrome (7.5 marks)
- 2. Vasculitis clinical picture, diagnosis and treatment (7.5 marks)
- 3. What are the clinical presentations of visual field defects and localization of lesions in each defect (7.5 marks)

### MCQs (22.5 marks)

#### 1-Upper gastrointestinal tract bleeding is up to:

- A. Pylorus
- B. Ampulla of Vater
- C. Ligament of Treitz
- D. End of jejunum

#### 2-Very low level ascetic fluid proteins is a major risk for:

- A. Refractory ascites
- B. Hepatic Encephalopathy
- C. Spontaneous Bacterial Peritonitis (SBP)
- D. Hepatocellular carcinoma

#### 3-All of the following may cause elevation of serum troponin except:

- A. Congestive heart failure
- B. Myocarditis
- C. Myocardial infarction
- D. Pneumonia

## 4-Typical presentations of diabetes mellitus include all of following except:

- A. Pruritus vulvae
- B. Nocturia
- C. Weight gain
- D. Limb pains with absent ankle reflexes

## 5-All of the following are suggestive of iron deficiency anaemia except:

- A. Koilonychia
- B. Decrease serum ferritin
- C. Decrease total iron binding capacity
- D. Low reticulocytic response

## 6-The clinical features of primary hypothyroidism include all the following except:

- A. Carpal tunnel syndrome
- B. Cold sensitivity
- C. Puffy eyelids
- D. Diarrhea

#### 7-In polyneuropathy, the pattern of sensory loss may be:

- A. Numbness and pain in distal parts of extremities
- B. Numbness and analgesia in half of the body
- C. Analgesia and sensory ataxia in proximal parts of extremities
- D. Pain and sensory ataxia in the half of the body

#### 8-All of the following produce systemic hypertension except:

- A. Polycystic kidney
- B. Pheochromocytoma
- C. Addison's disease
- D. Conn's syndrome

#### 9-Blood level of all rises in acute renal failure except:

- A. Uric acid
- B. K
- C. Na
- D. Creatnine

#### 10-Characteristic features of SLE include all of the following except:

- A. Alopecia
- B. Malar flush
- C. Photophobia
- D. Orophyrgneal ulcers

#### 11-Which of the following is a type of restrictive lung disease?

- A. Parenchymal lung diseases
- B. Abnormalities of chest wall and pleura
- C. Neuromuscular disease
- D. All of the above

#### 12-Which of the following about stridor is false?

- A. High-pitched
- B. Focal inspiratory wheeze
- C. Heard over the neck
- D. Manifestation of upper airway obstruction

#### 13-Stony dullness percussion of the chest occurs in:

- A. Pulmonary consolidation
- B. Pulmonary collapse
- C. Pulmonary fibrosis
- D. Pleural effusion

#### 14-Plateau pulse occurs in:

- A. Aortic stenosis
- B. Mitral stenosis
- C. Aortic incompetence
- D. Mitral incompetence

## 15-Complications of chronic renal failure include all of the following except:

- A. Anemia
- B. Mineral bone disorders
- C. Pericarditis
- D. Metabolic alkalosis

#### **GOOD LUCK**

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Tanta University
Faculty of Medicine
Department of Ophthalmology

# Examination for Doctorate Degree in Ophthalmology Physiology of The Eye 21/2/2018

#### Discuss shortly the following:

- 1. Tear film dysfunction & tests for tear film adequacy
- 2. Blood retinal barriers: types & clinical values
- 3. Factors affecting corneal hydration and transparency

#### MCQ

#### Choose only one answer:

- 1. The following is present in higher concentration in the tear than in the serum:
  - a. Sodium
  - b. Potassium
  - c. IgG
  - d. Glucose
- 2. Which of the following is the single most important factor in maintaining corneal transparency?
  - a. Endothelial pump
  - b. Constant refractive index of all layers
  - c. Relative acellularity and matrix organization
  - d. Tear film
- 3. Glucose metabolism in the lens principally occurs by:
  - a. Anaerobic glycolysis
  - b. Aerobic metabolism
  - c. Hexose monophosphate shunt
  - d. Sorbitol pathway
- 4. When produced, 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

- 5. The principle of IOP measurement is defined by:
  - a. Schwalbe's equation
  - b. Poiseuille's law
  - c. Imbert-Fick principle
  - d. Holladay's equation
- 6. The corneal stroma is mainly composed of:
  - a. Keratan sulphate
  - b. Chondroitin phosphate
  - c. It is acellular
  - d. Chondroitin sulphate
- 7. Which of the following is not a physiological property of the vitreous?
  - a. Transmits 85% of light of wavelength 300-1400 nm
  - b. Prevents the globe from collapsing
  - c. Refractive index of 1.66
  - d. Allows accumulation of waste products such as lactic acid which can be toxic to the retina
- 8. Which of the following is not a function of RPE?
  - a. Secretion of mucopolysacharide
  - b. It plays a role in the embryological development of photoreceptors
  - c. Absorption of stray light
  - d. Adherence to other RPE cells via zona adherens to form the blood retinal barrier
- 9. In phototransduction, activation of rhodopsin occurs via:
  - a. Isomerization of retinol
  - b. Glycosylation of transducin
  - c. Opening of GLUT-1 receptors
  - d. Unfolding of opsin
- 10. A number of corresponding points on the retina that projects to a definite single point in space is known as:
  - a. The Auberg phenomenon
  - b. A horopter
  - c. Panum's area
  - d. The Pulfrich phenomenon
- 11. Saccadic type eye movements are initiated by:
  - a. The oculomotor cerebellar center
  - b. Abducent nerve nucleus
  - c. Trochlear nerve nucleus
  - d. The temporal cortex

- 12. Where is the physiological blind spot relative to the center of the visual field?
  - a. Superior
  - b. Inferior
  - c. Nasal
  - d. Temporal
- 13. Which of the following statements regarding ERG is not accurate?
  - a. The pattern ERG represents retinal ganglion cells activity
  - b. The P50 component is always affected in macular disease
  - c. The N95 component corresponds to ganglion cell activity
  - d. The pattern ERG is always affected in optic nerve disease
- 14. Regarding 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 to occur with a cataract
  - d. It is always associated with anisocoria
- 15. Regarding VEP, which of the following statements is not accurate?
  - a. VEPs are a measure of the response of the occipital cortex to visual stimulation
  - b. VEPs can be used to assess crossover of visual pathway fibers at the optic
  - c. An amblyopic eye will usually have an abnormal pattern and flash VEP
  - d. VEPs can be used to approximate the visual acuity