



**MASINDE MULIRO UNIVERSITY OF  
SCIENCE AND TECHNOLOGY  
(MMUST)**

**MAIN CAMPUS**

**UNIVERSITY EXAMINATIONS**

**2020/2021 ACADEMIC YEAR**

**FIRST YEAR FIRST TRIMESTER EXAMINATIONS**

**FOR THE DEGREE**

**OF BACHELOR OF SCIENCE IN CLINICAL MEDICINE**

**COURSE CODE: HCM 416**

**COURSE TITLE: OPHTHALMOLOGY**

**DATE: TUESDAY 3<sup>RD</sup> AUGUST 2021 TIME: 8.00-11.00 AM**

---

**INSTRUCTIONS TO CANDIDATES**

- a. All questions are compulsory
- b. Read additional instructions under each subsection
- c. Enter all answers in the answer booklet provided
- d. Write the university registration number on each piece of paper used

**TIME: 3 Hours**

MMUST observes ZERO tolerance to examination cheating

## SECTION A MULTIPLE CHOICE QUESTIONS 20 MARKS

1. The brown- blue coloured structure of the eye is
  - A. Cornea
  - B. Iris
  - C. Choroid
  - D. Pupil
2. The clear transparent tissue in the center of the eye is
  - A. Sclera
  - B. Conjunctiva
  - C. Pupil
  - D. Cornea
3. The sieve like structure found at the angle of the anterior chamber made by the cornea and the iris where the aqueous drains through is called
  - A. Lamina cribrosa
  - B. Optic nerve
  - C. Trabecular meshwork
  - D. Schwalb's canal
4. The structure of the ciliary body where the aqueous is produced is called
  - A. The ciliary muscles
  - B. The lamina fusca
  - C. The ciliary process
  - D. The ciliary epithelium
5. One characteristics of corneal epithelium is
  - A. It regenerates within 24 hours
  - B. It's the only structure in the body that can be seen by the slit lamp
  - C. When damaged, the remaining cells flatten to cover the damage
  - D. It is continuous with the epithelium
6. Which of the following is not opportunistic infection of the eye in HIV clients
  - A. Herpes zoster ophthalmicus
  - B. Sympathetic ophthalmicus
  - C. Papillomata ( warts) due to papilloma virus
  - D. Cytomegalo virus infection of the retina

7. Artificial tears are recommended in the following conditions

- A. Dry eye syndrome
- B. Severe vernal conjunctivitis
- C. Corneal ulcer
- D. All of the above

8. Complications of steroids include

- A. Cataract
- B. Glaucoma
- C. Activation of infection
- D. All of the above

9. Concerning the mode of action of NSAIDS

- A. It is not antipyretic
- B. It is anti inflammatory
- C. It is an antipyretic
- D. Produces an analgesic effect

10. The structure of the eye which controls the amount of light entering the eye is

- A. Ciliary body
- B. Iris
- C. Lens
- D. Cornea

11. The transparent structures of the eye include

- A. Retina , lens, aqueous humor , conjunctiva
- B. Vitreous, retina, conjunctiva, cornea
- C. Lens, pupil, cornea, aqueous
- D. Lens, conjunctiva, vitreous, cornea

12. Primary retinal detachment is seen in

- A. Diabetes
- B. High myopia
- C. Malignant melanoma
- D. All of the above

13. Myopia is when

- A. The rays of light focus before the retina

- B. The rays of light focus on the retina
- C. The rays of light focus behind the retina
- D. The rays of light form both before and behind the retina

14. Image formed in a direct ophthalmoscope is

- A. Is the same size as the object
- B. Virtual
- C. Inverted
- D. Not upright

15. Trauma to the eye can not cause

- A. Vitreous hemorrhage
- B. Macular edema
- C. Central retina vein occlusion
- D. Retinal breaks

16. Which of the following conditions does not require emergency ophthalmological management

- A. Anterior uveitis
- B. Acute angle-closure glaucoma
- C. Orbital blow out fracture
- D. Iridodialysis

17. The average normal intraocular pressure is

- A. 10 mmhg
- B. 15 mmhg
- C. 21 mmhg
- D. 24 mmhg

18. Tremulous iris can be seen in

- A. Aphakia
- B. Hypermature cataract
- C. Posterior dislocation of the lens
- D. All of the above

19. Which of the following is not antifungal drug

- A. Miconazole
- B. ciprofloxacin
- C. Ketaconazole

D. Econazole

20. Indications of antibiotics are

- A. Squamous cell carcinomas
- B. Stromal keratitis
- C. Anterior uveitis
- D. Orbital cellulitis

## **SECTION B**

### **ANSWER ALL QUESTIONS 40 MARKS**

- 1. Name five different parts of a slit lamp 5Marks
- 2. State abnormalities of the eyelid 8 Marks
- 3. Outline causes of ectropion 8 Marks
- 4. Outline causes of turbidity of aqueous humor in the anterior chamber 5 Marks
- 5. Define a cataract and list its causes 6 Marks
- 6. Define and classify uveitis 5 Marks
- 7. List important space occupying lesions in the orbit 3 Marks

## **SECTION C**

### **ANSWER ALL QUESTIONS 40 MARKS**

- 1. Draw and label lacrimal system 15 Marks
- 2. A 25 year old man presented with hyphaema while playing rugby. Discuss the management of hyphaema 10 Marks.
- 3. A 50 year old woman presented at the clinic with complains of pain, swollen eyelids and proptosis. Discuss general signs of orbital diseases 15 Marks.

