

Name : .....

Roll No. : .....

Invigilator's Signature : .....

**CS/B.OPTM/SEM-6/BO-601/2010  
2010**

**SYSTEMIC CONDITIONS & THE EYE**

Time Allotted : 3 Hours

Full Marks : 70

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

**GROUP – A**

**( Multiple Choice Type Questions )**

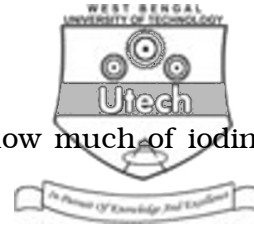
1. Choose the correct alternatives for any *ten* of the following :

10 × 1 = 10

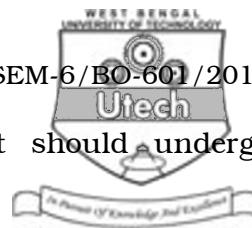
- i) Glucagon is produced by
- a)  $\delta$ -cells of pancreas      b)  $\beta$ -cells of pancreas  
c)  $A_1$ -cells of pancreas      d)  $\alpha$ -cells of pancreas.
- ii) Usually papilloedema is associated with
- a) Proliferative diabetic retinopathy  
b) Malignant hyperpyension  
c) Pre-eclampsia  
d) Satellite cells.

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[ Turn over



- iii) Normally a healthy individual needs how much of iodine daily ?
- a) About 200  $\mu\text{g}$                       b) About 110  $\mu\text{g}$   
c) About 150  $\mu\text{g}$                       d) About 220  $\mu\text{g}$ .
- iv) Mycobacterium leprae is responsible for
- a) Hansen's disease                      b) Pulseless disease  
c) Cockayne's disease                      d) Harada's disease.
- v) All are true regarding syphilis, *except*
- a) caused by treponema pallidum  
b) VDRL test positive  
c) does not involve the cornea  
d) sexually transmitted disease.
- vi) Horner's syndrome consists of all of the following *except*
- a) Miosis                                      b) Mydriasis  
c) Partial ptosis                              d) Enophthalmos.
- vii) The most common cause of blindness in children in India is
- a) Trachoma                                      b) Vit. A deficiency  
c) Cataract                                      d) Injuries.
- viii) Tuberculosis causes which ocular manifestation ?
- a) Anterior Uveitis                              b) Retinitis  
c) Glaucoma                                      d) Scleritis.
- ix) The most common cause of anterior uveitis associated with polyarthritis is
- a) Rheumatoid arthritis  
b) Syphilis  
c) Ankylosing spondylitis  
d) Parvo.



- x) A type 2 diabetes mellitus patient should undergo ocular examination
- as early as diagnosed
  - 5 years after diagnosis
  - 10 years after diagnosis
  - after visual symptoms appear.
- xi) All of the following are features of central artery occlusion *except*
- marked narrowing of retinal arterioles
  - cherry red spot of macula
  - retinal oedema
  - multiple superficial haemorrhages.
- xii) C-cells or parafollicular cells of thyroid secrete a hormone which is
- Tri-iodo-thyronine* ( T3 )
  - Thyrocalcitonin* ( TCT )
  - Tetra-iodothyronine
  - Thyroxine* ( T4 ).

**GROUP – B**

**( Short Answer Type Questions )**

Write short notes on any *three* of the following.

3 × 5 = 15

- OGTT.
- Vitamin deficiency and the eye.
- Papilloedema.
- Myasthenia gravis and the eye.
- Reiter's syndrome.
- Jone's criteria.



**GROUP – C**

**( Long Answer Type Questions )**

Answer any *three* of the following.  $3 \times 15 = 45$

8. What is the difference between hyperglycaemia and glucosuria ? Classify diabetes mellitus. Mention the complications. Describe briefly the diabetic retinopathy.

2 + 3 + 3 + 7

9. What is essential hypertension ? What are the complications of arterial hypertension ? What do you mean by malignant hypertension ? Mention the clinical features of malignant hypertension. Mention the arterio-venous crossing changes seen in hypertensive retinopathy.

2 + 3 + 2 + 4 + 4

10. What is the commonest primary intra-ocular tumour in adults ? Describe the histopathological classification of the tumor. How will you investigate and treat such a case ?

1 + 6 + 4 + 4

11. Enumerate some common causes of hyperthyroidism. What is Grave's disease ? Describe the different ocular signs of Grave's disease. How will you investigate such a case ? Describe the ocular management of Grave's disease.

2 + 1 + 4 + 4 + 4

12. What is TB ? What is causative organism ? What are the stages of TB ? What investigations should be done to help in diagnosis ? Discuss briefly the treatment of ocular TB ?

2 + 2 + 3 + 4 + 4

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