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4551 (10/06)

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**ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2009**  
**CLINICAL REFRACTION – I**  
**SEMESTER – 4**



Time : 3 Hours ]

[ Full Marks : 70

**GROUP – A**

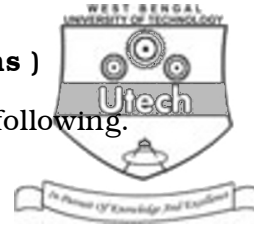
**( Multiple Choice Type Questions )**

1. Choose the correct alternatives for any *ten* of the following : 10 × 1 = 10
- i) On the log MAR chart the 6/60 has a log MAR value of
- a) 1.0 b) 0.8
- c) 0.7 d) none of these.
- ii) The principle of the Stenopaic slit test is based on
- a) Astigmatic fan b) Pinhole phenomenon
- c) Sturm's conoid d) none of these.
- iii) In compound hypermetropic astigmatism
- a) both foci are in front of the retina
- b) both foci are behind the retina
- c) one focus is in front of retina and the other behind
- d) one focus is on the retina and the other behind.
- iv) Temporal crescent is typically seen in
- a) astigmatism b) hypermetropia
- c) both of these d) none of these.
- v) Shot silk retina is present in
- a) myopia b) hypermetropia
- c) astigmatism d) none of these.

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- vi) Contraindication for use of cycloplegic eyedrops is
- a) paediatric patients
  - b) young hyperopes
  - c) glaucoma patients
  - d) patients having spasm of accommodation.
- vii) The radical retinoscopy is useful objective technique in
- a) aphakic patient
  - b) glaucoma patient
  - c) low vision patient
  - d) amblyopic patient.
- viii) The technique of binocular balance, where 3 PD BD in front of right eye and 3 PD BU in front of left eye is called
- a) Dissociated duochrome balance
  - b) Prism dissociation
  - c) Turville infinity balance
  - d) none of these.
- ix) A dim and unfocused retinal image may form where the diameter of the pinhole disc is
- a) less than 1 mm
  - b) less than 1.5 mm
  - c) less than 2 mm
  - d) less than 1.32 mm.
- x) The drugs which are responsible for paralysis of the parasympathetic nerve ending are called
- a) miotic drugs
  - b) anti-cholinesterases
  - c) parasympathomimetic drugs
  - d) parasympatholytic drugs.
- xi) The duochrome test is based on the principle of
- a) optical aberration
  - b) chromatic aberration
  - c) defocus aberration
  - d) spherical aberration.

**GROUP – B****( Short Answer Type Questions )**Write short notes on any *three* of the following.

3 × 5 = 15

2. Sudden unfogging
3. Prism dissociated blur balance
4. Vertex distance
5. Jackson cross cylinder
6. Minimum angle of resolution
7. Turnville infinity balance test.

**GROUP – C****( Long Answer Type Questions )**Answer any *three* of the following questions.

3 × 15 = 45

8. Discuss briefly the various methods of determining the astigmatism present in a person. 15
9. a) What are the various visual acuity charts used for recording vision. Name them.  
b) Which chart is the most standardized and why ?  
c) How will you record the vision of a child only eight months old. 5 + 5 + 5
10. What are static retinoscopy and dynamic retinoscopy. Explain Bell's and Nott's method of retinoscopy. 5 + 5 + 5
11. a) What is presbyopia ?  
b) How can you measure amplitude of accommodation ?  
c) What are the important points to be considered while prescribing near addition to a presbyope, getting his first bifocal glasses. 2 + 3 + 10

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END