BINDURA UNIVERSITY OF SCIENCE EDUCATION FACULTY OF SCIENCE & ENGINEERING DEPARTMENT OF OPTOMETRY

BACHELOR OF SCIENCE HONOURS DEGREE IN OPTOMETRY

OPTC 204: CLINICAL OPTOMETRY I

DURATION: 3 HOUR

TOTAL MARKS: 100

= NOV 2012 4

CANDIDATE NUMBER:

INSTRUCTIONS

This exam contains TWO sections: Section A: 40 Marks; Section B: 60 Marks
Answer Section A on the Question paper and Section B on the answer booklet. Answer all questions.

SECTION A. Attempt all questions. (40 marks)

- 1. Near visual acuity is tested by
 - a) Snellen's chart
 - b) Jaeger's chart
 - c) Cambridge chart
 - d) Key chart
- 2. Which of the following statements is true about case history?
 - a) It includes information taken only at the beginning of the consultation.
 - b) Confidentiality and privacy are important only during history taking.
 - c) The chief complaint is usually important in determining the crucial tests.
 - d) All the above.
- 3. Which of the following statement best describes the chief complaint in patient history?
 - a) It is taken to ascertain patient's expectations.
 - b) It is taken to prescribe ocular medication for the patient.
 - c) It is taken to acquire primary reason for the patient seeking consultation.
 - d) It is taken to determine the specific tests to be performed during the examination.

| 4. | The amplitude of accommodation of a person having farpoint α and near point at 10 cm is a) 10D b) 1D c) 1·5D d) None of these. |
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| 5. | Pinhole increases V.A. by a) Reducing the size of blur circle b) Increasing the size of blur circle c) Cutting of peripheral rays d) Both (a) & (c). |
| 6. | Near point of convergence is measured with a) RAF ruler b) Diploscope c) Cycloplegia d) Fogging method. |
| 7. | Uncover test is used to evaluate a) Exophoria b) Exotropia c) Hypertropia d) All of these. |
| 8. | Horizontally Maddox rod is placed in front of left eye &patient is seeing vertical streak right side to the spotlight, the strabismus is a) Hyperphoria b) Hypophoria c) Esophoria d) Exophoria. |
| 9. | Titmus test is a test for a) Ac: A ratio b) Steropsis c) Convergnce d) Paralytic squint. |
| 10 | . In which test Red green goggles are not used? a) Hess Test b) Worth 4 dot test c) Diplopia charting test d) Duochrome test. |

| 12. Cycloplegic refraction is contraindicated in a) Young hyperopic b) Esophoria c) Glaucoma d) Children < 7 yrs. |
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| 13. The amplitude of accommodation of a person having far point α and near point at 15 cm is a) 6.67D b) 0.15D c) 1.5D d) 6.0D. |
| 14. At the end of retinoscopy on slight forward movement of examiner's head, the movement of the reflex is obtained a) With b) Against c) Nil movement d) Rapid movement. |
| 15. When the retinoscopy is done at 50 cm then working lens should be a) +1.5 D b) +1.00 D c) +2.00 D d) None of these. |
| 16. At the end of retinoscopy on slight backward movement of examiner's head, the movement of the reflex is obtained e) With f) Against g) Nil movement h) Rapid movement. |
| 17. In objective refraction: a) Accommodation is stimulated if the patient stared at the light from the retinoscope b) "With" motion occurs in high myope if the sleeve of the retinoscope is placed in the plano mirror position. c) "Against" motion occurs in hypermetropia if the sleeve of the retinoscope is placed in the concave mirror position. d) Movement of the reflex increases as the neutralization point is near. (True) (False) |
| e) The power of the working distance lens in diopters is proportional to the working distance in metres. (True) (False) |

| 18. A 40-year-old myopic woman recently changes her glasses and find them uncomfortable despite having a visual acuity of 6/6 in both eyes. The following may be | | | |
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| responsible. a) Change of axis b) Decentering of the lens c) Over-correction of myopia d) Change of lens form e) Onset of presbyopia | (True) (False) (True) (False) (True) (False) (True) (False) (True) (False) | | |
| 19. The cover test can be used in investigating the following aspects of stratexcept a) Consistency of the deviation b) Direction of the deviation c) Eye preference d) Degree of deviation e) None of the above | abismus | | |
| 20. What minimum amplitude of accommodation is expected for a 40-year-a) 9.00D b) 6.50D c) 3.00D d) 5.00D e) 8.25D | old individual? | | |
| 21. A patient reports first sustained blur at a distance of 25cm while wearing in addition to his best visual acuity subjective correction of +1.25D. When amplitude of accommodation? a) 2.75D b) 3.00D c) 2.50D d) 0.25D e) 1.25D | ng a +1.50D lens nat is his | | |
| 22. In assessing visual acuity in children, the following are used? a) Lea symbols b) Sheridan-Gardner test c) Cardiff cards d) EDTR charts | (True) (False) (True) (False) (True) (False) (True) (False) | | |
| e) Picture chart (True) (False) | | | |
| 23. During streak retinoscopy, the following is true about the point of neut a) The retinoscopy refraction is complete b) The reflex becomes dimmer c) Moving towards the patient produces against movement in all m | (True) (False) (True) (False) neridians (True) (False) | | |
| d) The retinal and the peephole of the retinoscope form the conju | (True) (False) | | |
| e) The reflex becomes sharper | (True) (False) | | |

e) The reflex becomes sharper

- 24. Which of the following statements about alternate cover test is true?
 a) Should always be performed before cover-uncover test
 b) If the uncovered eye moves in on uncovering, the patient has esophoria.
 c) It is not useful in detecting cyclophoria
 d) Detects both phoria and tropia

SECTION B. Attempt all questions. (60 marks)

- I. How will you distinguish between orthophoria, heterophoria and heterotropia with the help of cover/uncover test and list all the probable outcomes? (10 marks)
- II. Calculate the minimum and average amplitude of accommodation (AOA) for a patient aged 22.(4 marks)
- III. List any 3 supplementary distance VA tests. (3 marks)
- IV. List the tests for 1st degree, 2nd degree and 3rd degree fusion. (6 marks)
- V. What is the meaning of 6/36 notation in VA?(2 marks)
- VI. Outline the role of J.C.C. (Jackson crossed cylinder) during refraction. (4 marks)
- VII. List 5 preliminary external tests in an optometric clinic and the instruments used. (10 marks)
- VIII. Explain duochrome's test utility in monocular subjective refraction. (4 marks)
 - IX. List four factors that can influence the end-points in retinoscopy. (8 marks)
 - X. Outline the important information of a good case history. (12 marks)

END OF PAPER