Avinashilingam Institute for Home Science and Higher Education for Women

Coimbatore - 641 043

Continuous Internal Assessment – II April 2025

IV Semester

Class : II UG **Time : 2 Hours**

Branch : Optometry **Max. Marks : 60**

23BVBEC4 Eye Camp IV

Part A **20 x 1 = 20**

Answer ALL questions

1. 1mm increase in axial length of eyeball leads to hypermetropia of
   a. 2 D b. 3 D c. 4 D d.6 D
2. Strum's cooed refers to configuration of rays refracted through
   a. Concave spherical surface b. Convex spherical surface
   c. Toric surface d. Irregular surface
3. During accommodation AC depth will
   a. Increase b. Decrease c. Remain same d. None
4. In duochrome test, green better response indicates
5. In worth 4 dot test response, 3 green dot indicates
6. Scratch resistance is highest for which lens
   a. 1.49 b. 1.59 c. 1.67 d.1.74
7. Tint prescribed in RP condition is
   a. Orange/ Red b. Yellow/ Orange c. Brown/ Grey d. Amber/ Red
8. Polarized lenses is not advised for
   a. Drivers b. Boating c. Pilots d. All the above
9. Crowding phenomena is characteristics of
   a. Amblyopia b. Anisometropia c. Astigmatism d. Aniseikonia
10. Amblyopia is more common with
    a. Myopia b. Hyperopia c. Both d. None
11. Commonest cause of posterior staphyloma is
    a. Glaucoma b. Retinal detachment c. Iridocyclitis d. High myopia
12. Social blindness is
    a. Vn less than 6/60 b. Vn of 3/60 c. BCVA of 1/60 d. No PL
13. A patient presents with a loss of vision in the left nasal field of both eyes. This visual field defect is most likely caused by damage to:
    a. Right optic nerve b. Left optic nerve c. Right optic tract d. Left optic tract
14. The first sign of DR often observed in a fundus examination is
    a. Cotton wool spots b. Microaneurysms c. Neovascularization d. Retinal hemorrhages
15. The purpose of doing fogging during subjective refraction is
    a. To eliminate the patient's accommodation b. To increase the patient's refractive error
    c. To ensure maximum clarity of the image d. To provide a test for binocular vision
16. If a lens has a focal length of 2 meters, what would be its power
    a. +2 D b. +0.5 D c. -2 D d. -0.5 D
17. If the focal length (f) decreases, the power of the lens would
    a. increases b. decreases
    c. power stays the same d. focal length has no effect on power
18. If the keratometer readings show a steep meridian of 45 D and a flat meridian of 40 D, what is the corneal astigmatism
    a. 5 D b. 10 D c. 45 D d. 40 D

19. The typical magnification range for a slit lamp is

a. 1x to 3x. b. 5x to 10x. c. 10x to 40x. d. 40x to 100x.

20. Van Herick grading is done in which illumination technique

a. Optic section b. Tangential c. Retro d. Sclerotic scatter

Part B **2 x 10 = 20**

Answer ALL questions

Each answer should not exceed 800 words or two pages

21. Summarize the types of illumination techniques in slit lamp

22. i. A 30 years old female came with a C/o red, irritation, itchy eyes with a watery discharge for the past 3 days, had no H/o trauma or FB sensation. Her VA is OU: 6/6, on examination reveals mild swelling of the eyelids with clear watery discharge. Write down the tentative diagnosis and management plan.

ii. Calculate the ADD / NV

a) DV: -2.00 DS ; NV: +4.00DS

b) DV: +3.00 DS / -1.00*180 ; ADD: +1.50DS

c) DV: Plano / -1.50*180 ; ADD: +2.50DS

d) DV: - 0.75 DS / - 2.00*180 ; ADD: +2.50DS

e) DV: +/- ; NV: +3.00DS

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