

CERTIFICATE IN DISPENSING OPTICS (CDO)

Term-End Examination

June, 2015

OAH-002 : OPHTHALMIC OPTICS

Time : 90 Minutes

Maximum Marks : 30

Note :

- (i) *There will be multiple choice type of questions in this examination which are to be answered in **OMR Answer Sheets**.*
- (ii) *All questions are **compulsory**.*
- (iii) *Each question will have four options and only one of them is correct. Answers have to be marked in figures in the appropriate rectangular boxes corresponding to what is the correct answer and then blacken the circle for the same number in that column by using HB or lead pencil and not by ball pen in **OMR Answer Sheets**.*
- (iv) *If any candidate marks more than one option, it will be taken as the wrong answer and no marks will be awarded for this.*
- (v) *There will be 30 questions in this paper and each question carries one mark.*
- (vi) *There will be no negative marking for wrong answers.*
- (vii) *No candidate shall leave the examination hall at least for one hour after the commencement of the examination.*

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- 1. When the light rays coming from infinity do not focus at a single point, this condition is known as**
 - (1) astigmatism
 - (2) myopia
 - (3) hyperopia
 - (4) hypermetropia

- 2. The most common chart used in most doctor's clinics is the**
 - (1) Snellen chart
 - (2) LogMAR chart
 - (3) Pelli-Robson chart
 - (4) None of the above

- 3. Prescriptions for eyeglasses are measured in**
 - (1) mm
 - (2) cm
 - (3) D
 - (4) m

- 4. Legal Blindness is when a person's best-corrected vision is**
 - (1) 20/200 or worse
 - (2) 20/20 or worse
 - (3) 200/20 or worse
 - (4) 20/2 or worse

- 5. The most common opacity of the ocular media is**
 - (1) glaucoma
 - (2) cataract
 - (3) edema
 - (4) None of the above

6. Which of the following retinopathy is the most common retinal vascular cause of visual acuity loss ?
- (1) diabetic
 - (2) optic neuritis
 - (3) Both (1) and (2)
 - (4) None of the above
7. Which of the following lenses are impact resistant and light ?
- (1) plastic
 - (2) glass
 - (3) metal
 - (4) sheet
8. A bifocal adds a second lens called
- (1) second
 - (2) add
 - (3) first
 - (4) small
9. Single vision lens has
- (1) different optical point area over the entire area of the lens
 - (2) same optical point area over the entire area of the lens
 - (3) None of the above
 - (4) Can't say
10. Which of the following lenses provides a smooth transition from distance correction to near correction ?
- (1) progressive
 - (2) bifocal
 - (3) single
 - (4) double

11. Which of the following lenses has a refractive power in one meridian only and is used in the correction of astigmatism ?
- (1) spherical
 - (2) cylindrical
 - (3) Both (1) and (2)
 - (4) None of the above
12. Density is a measurement of
- (1) weight
 - (2) speed
 - (3) velocity
 - (4) size
13. According to cardinal points of Reduced eye, the Principal point lies 7.2 mm behind the anterior surface of the cornea.
- (1) True
 - (2) False
 - (3) None of the above
 - (4) Can't say
14. An aberration leads to blurring of the image produced by an image-forming optical system.
- (1) True
 - (2) False
 - (3) None of the above
 - (4) Can't say
15. Monochromatic aberrations are produced with dispersion.
- (1) True
 - (2) False
 - (3) None of the above
 - (4) Can't say

- 16. In spherical aberration off-axis rays are brought to a focus closer to the lens than are on-axis rays.**
- (1) True
 - (2) False
 - (3) None of the above
 - (4) Can't say
- 17. Visual acuity is a quantitative measurement.**
- (1) True
 - (2) False
 - (3) None of the above
 - (4) Can't say
- 18. Only glass lenses are suitable for everyday usage.**
- (1) True
 - (2) False
 - (3) None of the above
 - (4) Can't say
- 19. An aspheric lens surface generally decreases in power peripherally in order to correct for aberrations found in the periphery of a lens.**
- (1) True
 - (2) False
 - (3) None of the above
 - (4) Can't say
- 20. The bifocal segment should be selected so that image jump is minimized.**
- (1) True
 - (2) False
 - (3) None of the above
 - (4) Can't say

- 21.** Straight top segment is usually fitted 5 mm below the ciliary line.
- (1) True
 - (2) False
 - (3) None of the above
 - (4) Can't say
- 22.** Radius of curvature of anterior surface of cornea is
- (1) 1.0 mm
 - (2) 2.0 mm
 - (3) 5.0 mm
 - (4) 7.7 mm
- 23.** Coma is negative when off-axis rays focus furthest from the axis.
- (1) True
 - (2) False
 - (3) None of the above
 - (4) Can't say
- 24.** Coma aberration is dependent upon lens shape.
- (1) True
 - (2) False
 - (3) None of the above
 - (4) Can't say
- 25.** Astigmatism is similar to coma but arises for small objects at the edges of the field striking an uncorrected lens asymmetrically.
- (1) True
 - (2) False
 - (3) None of the above
 - (4) Can't say

- 26.** Hyperopia is also known as farsightedness.
- (1) True
 - (2) False
 - (3) None of the above
 - (4) Can't say
- 27.** The metric equivalent is 6/6 vision where the distance is 3 metres.
- (1) True
 - (2) False
 - (3) None of the above
 - (4) Can't say
- 28.** Acuity and color vision can be affected independently.
- (1) True
 - (2) False
 - (3) None of the above
 - (4) Can't say
- 29.** Visual acuity measures only the smallest detail we can see.
- (1) True
 - (2) False
 - (3) None of the above
 - (4) Can't say
- 30.** The Snellen eye chart has a series of letters or letters and numbers, with the largest at the top.
- (1) True
 - (2) False
 - (3) None of the above
 - (4) Can't say

SPACE FOR ROUGH WORK