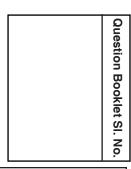
Α

Question Booklet Alpha Code





Total Number of Questions: 100 Time: 90 Minutes

Maximum Marks: 100

INSTRUCTIONS TO CANDIDATES

- 1. The Question Paper will be given in the form of a Question Booklet. There will be four versions of Question Booklets with Question Booklet Alpha Code viz. **A, B, C** & **D**.
- 2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the Question Booklet.
- 3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
- 4. If you get a Question Booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator IMMEDIATELY.
- 5. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your Question Booklet is un-numbered, please get it replaced by new Question Booklet with same alpha code.
- 6. The Question Booklet will be sealed at the middle of the right margin. Candidate should not open the Question Booklet, until the indication is given to start answering.
- 7. Immediately after the commencement of the examination, the candidate should check that the Question Booklet supplied to him/her contains all the 100 questions in serial order. The Question Booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
- 8. A blank sheet of paper is attached to the Question Booklet. This may be used for rough work.
- 9. Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.
- 10. Each question is provided with four choices (A), (B), (C) and (D) having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball Point Pen in the OMR Answer Sheet.
- 11. Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.
- 12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
- 13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

A -2-

1.	The muscle of the eyeball supplied by abdu A) Medial Rectus C) Superior Rectus	B)	t nerve is Lateral Rectus Inferior Rectus
2.	The Uveal tract consists of all of the followi A) Choroid C) Iris	B)	tructures except Limbus Ciliary body
3.	The refractive apparatus of the eye consist A) Cornea C) Iris	В)	the following structures except Aqueous humour Vitreous humour
4.	What type of gland is Meibomian gland? A) Sweat gland C) Sebaceous gland	,	Salivary gland Ceruminous gland
5.	Nasolacrimal duct opens into A) Superior meatus C) Middle meatus	,	Conjunctival sac Inferior meatus
6.	The floor of the bony orbit is formed by all of A) Body of maxilla C) Palatine bone	В)	e following bones except Zygomatic bone Sphenoid bone
7.	Which of the following branches of ophthalo A) Lacrimal artery C) Supra orbital artery	B)	artery is most important ? Central retinal artery Posterior ciliary artery
8.	All of the statements regarding cornea are A) Its refractive power is less than that of le B) It is supplied by trigeminal nerve C) It consists of 5 layers D) It forms the anterior 1/6 th of the outer co	ens	·
9.	All of the following are actions of Superior I A) Elevation C) Adduction	B)	us muscle except Intorsion Abduction

A -3-

	B) It is topographically connected to nasocC) It is functionally connected to oculomotD) Short ciliary nerves arising from the gall	or nerve
	sphincter papillae	ignori suppry smary mussis and
11.	Which parasite is associated with ocular in A) Acanthamoeba C) Toxoplasma	fection in contact lens users ? B) <i>Trypanosoma</i> D) <i>Leishmania</i>
12.	All the following statements regarding Cyto A) Most frequent ocular opportunistic infect B) Occurs when CD4 T cell count is > 500 C) Associated with decreased vision and f D) Complications include retinal detachment	ction in patients with AIDS cells/mm ³ loaters in one or both eyes
13.	Multiple pearly white wart like umbilicated A) Adenovirus C) Herpes Simplex virus	lesions over eyelid are caused by B) Enterovirus D) Molluscum contagiosum virus
14.	 Which of the following statement is true regard. A) <i>C. trachomatis</i> serotypes A, B, Ba & C both adults and newborn B) <i>C. trachomatis</i> serotypes D-K causes for a common cause gonococcus D) Trachoma is commonly seen in adults 	causes inclusion conjunctivitis affecting
15.	Mycotic keratitis is most commonly caused A) Aspergillus C) Fusarium	
16.	All the following are true regarding Chocola A) Enriched medium made by heating a m B) Contains X and V factors C) Used to grow fastidious organisms D) Can indicate the degree of hemolysis of	nixture of sheep blood and nutrient agar
Α	-4	-

A) It lies between optic nerve and medial rectus muscle near the apex of the orbit

10. Select the incorrect statement about the ciliary ganglion

17. Which organism classically causes epidemics of mucopurulent coespecially in semitropical countries?		ics of mucopurulent conjunctivitis		
	A) Haemophilus aegypticus	B) Staphylococcus aureus		
	C) Corynebacterium diphtheriae	D) Moraxella lacunata		
18.	Which of the following is an etiological age	nt of Chorioretinitis?		
	A) Cytomegalovirus	B) Toxoplasma gondii		
	C) Toxocara canis	D) All of the above		
19.	Which organism can readily invade intact of	orneal epithelium ?		
	A) Neisseria gonorrhoeae	B) Corynebacterium diphtheriae		
	C) Staphylococcus aureus	D) Both A & B		
20.	Typical appearance of <i>Streptococcus pneu</i> A) Gram positive diplococci bearing flame			
	B) Gram positive cocci in clusters	onapouranoonato appouranoo		
	C) Gram positive bacilli with drumstick app	pearance		
	D) Gram negative bacilli in scattered arran			
21.	What is the site of production of Aqueous h	numor ?		
	A) Iris	B) Ciliary body		
	C) Cornea	D) Fovea		
22.	Normal Intra Ocular Pressure is			
	A) 55-60 mm Hg	B) 40-50 mm Hg		
	C) 30-35 mm Hg	D) 10-20 mm Hg		
23.	Which of the following is False about Optic	disk?		
	A) Contains no visual receptors			
	B) The site where optic nerve leaves the retina			
	C) The point where visual acuity is greatest			
	D) Corresponds to blind spot in visual field			
24.	Which of the following is not a response in	Accommodation reflex ?		
	A) Visual axes converge	B) Pupil dilates		
	C) Curvature of the lens is increased	D) Pupil constricts		

A -5-

25.	Which of the following about Visual Acuity A) Tested with Ishihara's chart B) The degree to which the details and cor C) Optic disk is the point where visual acuit D) Normal visual acuity is 6/12	ntou	rs of the objects are perceived
26.	Misalignment of the eyes is known as A) Myopia C) Amblyopia	,	Strabismus
27.	C) Amblyopia Individuals with normal colour vision are ca	,	Scotoma
	A) TrichromatsC) Monochromats	B)	Dichromats Achromatopsia
28.	When the eye is turned nasally which must A) Superior Rectus C) Superior Oblique	B)	elevates it ? Inferior Oblique Inferior Rectus
29.	When the image on the retina fails to fall or occurs. A) Myopia C) Diplopia	B)	e corresponding points Amblyopia Hypermetropia
30.	Name the condition in which Loss of Accorresulting in difficulty in reading and close w A) Hypermetropia C) Myopia	ork B)	
31.	Fluoroquinolone used in ocular infections A) Gentamicin C) Bacitracin	,	Ciprofloxacin Azithromycin
32.	Which antiviral is not preferred in cytomega A) Acyclovir C) Valganciclovir	B)	irus retinitis ? Ganciclovir Cidofovir

A -6-

33.	All drugs cause cycloplegia except		
	A) Atropine	B)	Cyclopentolate
	C) Phenylephrine	D)	Homatropine
34.	Carbonic anhydrase inhibitor used for glaud	com	na treatment
	A) Betaxolol	B)	Latanoprost
	C) Pilocarpine	D)	Acetazolamide
35.	Which group of drugs increase uveoscleral	pat	thway?
	A) Osmotic diuretics	B)	Prostaglandins
	C) Miotics	D)	Beta blockers
36.	Choose the false statement		
	A) Homatropine causes mydriasis and cyc	lopl	egia
	B) Phenyleprine causes mydriasis		
	C) Physostigmine causes miosis		
	D) Timolol causes cycloplegia		
37.	Constituent of artificial tear is		
	A) Fluorescein	B)	Rose Bengal
	C) Hydroxymethyl cellulose	D)	Indocyanine green
38.	Topical NSAIDs are all except		
	A) Azelastine	B)	Diclofenac
	C) Ketorolac	D)	Flurbiprofen
39.	Amphotericin B is		
	A) An antihistamine	B)	An antifungal agent
	C) A lubricating agent	D)	A local anesthetic agent
40.	Ocular side effects of corticosteroids are ex	cep	ot
	A) Posterior subcapsular cataract	B)	Glaucoma
	C) Secondary infection	D)	Macular edema

-7-

41.	Snellen's chart Lines comprising letters have angle of	ellen's chart Lines comprising letters have a breadth that will subtend at an gle of	
	A) 1 minute	B)	2 minutes
	C) 3 minutes	D)	4 minutes
42.	Which test is preferential looking test?		
	A) Boeck Candy test	B)	Miniature toy test
	C) Teller acuity card test	D)	Visual evoked potential test
43.	A colour deficient person will read which Is	hiha	ra plate ?
	A) 1 st Plate	B)	4 th Plate
	C) 8 th Plate	D)	10 th Plate
44.	Tests to detect colour vision are		
	A) Hardy-Rand-Ritter	B)	Fransworth Munsell 100 hue test
	C) City University test	D)	All the above
45.	Hyperacuity is seen in		
	A) Colour vision	B)	Snellen's acuity test
	C) Lipmann's HOTV test	D)	Vernier acuity
46.	What is the principle of pinhole?		
	A) Stiles-Crawford effect	B)	Vernier Acuity
	C) Admits only central rays of light	D)	Preferential looking
47.	Sturm's Conoid refers to configuration of th	e ra	ys reflected through
	A) Concave spherical surface	B)	Convex spherical surface
	C) Toric surface	D)	Irregular surface
48.	The refractory power of an emmetropic eye	is a	about
	A) +50 D	B)	+55 D
	C) +60 D	D)	+65 D

49.	The prism produces displacement of the objects seen through it towards the		
	A) Apex	B) Base	
	C) Sideways	D) None of the above	
50.	In retinoscopy, Skewing is done A) For neutralization B) Break in alignment between the reflex C) Refine the axis of small cylinder D) Stradling		
51.	Strongest cycloplegic is		
	A) Tropicamide	B) Homatropine 2%	
	C) Cyclopentolate 2%	D) Atropine 1%	
52.	Jackson's Cross cylinder A) Is a combination of 2 cylinders of equal B) Can be used to refine Axis C) Refinement of cylinder power D) All the above	strength with opposite signs	
53.	At birth, eye is usually		
	A) Hypermetropic	B) Myopic	
	C) Emmetropic	D) Aniseikonia	
54.	An aphakia wearing aphakic glass will mos	t commonly notice	
	A) Pincushion distortion	B) Spherical aberration	
	C) Barrel distortion	D) Chromatic aberration	
55.	A difference in the size of two retinal image	s which can be well tolerated is	
	A) 2% B) 3%	C) 5% D) 10%	
56.	During accommodation there occurs decre	ase in the radius of curvature of the	
	A) Anterior surface of lens	B) Posterior surface of lens	
	C) Both surface of the lens	D) None of the above	

A -9-

57.	While performing duo-chrome test if the patient reports that he sees red letter more clear than green, it indicates that he is slightly				
	A) Myopic		B)	Hypermetropic	
	C) Presbyopic		D)	None of the abov	e
58.	Preferably, presbyopia	should be			
	A) Fully corrected		B)	Under corrected	
	C) Over corrected		D)	None of the abov	e
59.	Aniseikonia refers to				
	A) Difference in corne	al diameter			
	B) Difference in the in	nage size in retina			
	C) Difference in the re	fractive error			
	D) Difference in the in	nage colour			
60.	The refractive index of	CR-39 lenses is			
	A) 1.35	B) 1.49	C)	1.56	D) 1.73
61.	Deep meniscus lens h	as a base curve of			
	A) 1 D	B) 3 D	C)	6 D	D) 8 D
62.	Dk value of contact ler	ns refers to			
	A) Light transmission				
	B) Anti-reflective coat	ing			
	C) Gaseous transmiss	C) Gaseous transmission through polymeric material			
	D) Heat resistance				
63.	Three-point touch tech	nnique is used for			
	A) Soft contact lens		B)	RGP contact lens	8
	C) Therapeutic contact	et lens	D)	Toric contact lens	3
64.	Biometry is				
	A) Ant chamber depth	measurement	B)	Intra ocular lens p	oower calculation
	C) Refractive error cal	lculation	D)	Simple toric trans	sposition

65.	Abbe value refers to A) Spherical aberration C) Prismatic effect of lens	B) Chromatic aberration D) Coma
66.	The Final Applanating area for Applanation A) 3.00 mm ² C) 3.08 mm ²	n tonometry is B) 3.06 mm ² D) 3.2 mm ²
67.	Example of static perimeter A) Lister perimeter C) Humphrey perimeter	B) Campimetry D) Confrontation test
68.	Which of the following instrument is used for A) Autorefractometer C) Maddox rod test	for macular function test ? B) Keratometer D) Placido's disc
69.	The optical principle of Fundus camera is b A) Gullstrand's ophthalmoscope C) Snell's law	based on B) Imbert ficks law D) Scheiner principle
70.	Indirect ophthalmology gives A) Minified, virtual, erect image C) Magnified, real, inverted image	B) Magnified, virtual, erect imageD) Magnified, virtual, inverted image
71.	As per World Health Organization (WHO), A) Visual acuity less than 3/60 (Snellen) or B) Visual acuity less than 6/18 (Snellen) or C) Visual acuity more than 3/60 (Snellen) or D) Visual acuity less than 6/24 (Snellen) or	or its equivalent or its equivalent or its equivalent
72.	If i is the angle of incidence, r is the angle of the medium in which refracted ray lies, S A) Sin r / Sin i = n C) Sin i / Cos r = n	

73.	Which is not a field defect typical of Primar A) Hemianopia C) Arcuate scotoma	y Open Angle Glaucoma ? B) Seidel Scotoma D) Roenne's nasal step
74.	National Eye Donation fortnight is observed A) July 25 to August 08 C) August 05 to August 19	d in India during B) September 25 to October 09 D) August 25 to September 08
75.	All of the following are causes of leukocoriaA) Persistent hyperplastic primary vitreousB) RetinoblastomaC) Fungal keratitisD) Congenital cataract	
76.	Which of the following statements is true re A) Displaced towards base of prism B) Is always inverted C) Displaced towards apex of prism D) Is always real	garding image formed by a prism ?
77.	Essential infantile esotropia may be associ	ated with all except
	A) Large angle of deviation	B) Absence of cross fixation
	C) Dissociated vertical deviation	D) Asymmetry of optokinetic nystagmus
78.	Christmas tree cataract is typically describe A) Galactosemia C) Wilson's disease	ed in which of the following conditions? B) Blunt trauma D) Myotonic dystrophy
79.	Identify the incorrect statement A) Incident ray and refracted ray are always B) Angle of incidence = Angle of reflection C) Image formed by a plane mirror is virtual D) None of the above	

A -12-

80.	Which of the following statements is true?					
	A) Meridional amblyopia is usually associated with myopia					
	B) Occlusion therapy is not effective in amblyopia					
	C) Visual acuity in amblyopes is less when tested with single letter optotypes	tes	sted with Snellen's chart than when			
	D) Amblyopia treatment should be started adolescence	onl	y after the child reaches			
81.	The causative organism of dendritic ulcer is	S				
	A) Aspergillus	B)	Herpes simplex			
	C) Staphylococcus	D)	Pneumococcus			
82.	Which is a dry heat sterilization method?					
	A) Autoclaving	B)	Steaming			
	C) Boiling	D)	Incineration			
83.	Applanation tonometry values are influenced by					
	A) Corneal diameter	B)	Anterior chamber depth			
	C) Lens thickness	D)	Corneal thickness			
84.	Regarding anterior uveitis, all of the following statements are true except					
	A) Pilocarpine is the drug of choice					
	B) It can cause glaucoma					
	C) It may be associated with arthritis					
	D) It may have a recurrent or chronic cours	se				
85.	The hallmark of proliferative diabetic retinopathy is					
	A) Microaneurysms	B)	Dot and blot haemorrhages			
	C) Neovascularisation	D)	Hard exudates			
86.	Which is not an example of kinetic perimet	ry ?				
	A) Lister perimetry	B)	Humphrey field analyser			
	C) Tangent screen	D)	Confrontation test			

A -13-

87.	Identify the true statement A) Chalcosis results due to retained iron for B) Sunflower cataract may be seen in chalcosis results due to retained iron for B) Sunflower cataract may be seen in sideror D) None of the above	alcosis
88.	Which is the correct statement regarding of A) It is used in correction of myopia B) It has a thin centre and thick periphery C) It is a diverging lens D) It magnifies an object held close to it	
89.	All of the following are antiglaucoma medic	cations except
	A) Latanoprost	B) Netarsudil
	C) Natamycin	D) Acetazolamide
90.	All of the following parameters are used is calculation except A) Keratometry C) Pachymetry	SRK formula for intraocular lens power B) Axial length D) 'A' constant of lens
91.	4-diopter prism test is used in the diagnosi	is of
•	A) Exophoria	B) Microtropia
	C) Diplopia	D) Hypertropia
92.	Vitamin A deficiency can cause all of the for A) Tranta's spots C) Xerophthalmic fundus	ollowing except B) Corneal ulcer D) Night blindness
93.	Choose the most appropriate statement re A) Glaucoma is a non-progressive disease B) It mainly affects the optic nerve C) It is seen only in adults D) It is always associated with cataract	

A -14-

94.	Eye donation is contraindicated in all of the following conditions in the donor except	
	A) AIDS or HIV infection	B) Rabies
	C) Active viral hepatitis	D) Donor age more than 60 years
95.	Which optical principle is used in antireflective coating in glasses and lenses?	
	A) Coherence	B) Diffraction
	C) Interference	D) Polarization
96.	All of the following can be used as low vision aids except	
	A) Monocular telescopes	B) Bagolini's striated glasses
	C) Magnifying spectacles	D) Gottlieb field expanders
97.	Regarding chemical injuries to the eye, which statement is least appropriate? A) Acid burns are more dangerous than alkali burns B) Chemical injury to eye is an ophthalmic emergency C) Chemical injury can recult in limbal starm call deficiency.	
	C) Chemical injury can result in limbal sterD) Amniotic membrane transplantation car	•
00		
98.	What is the power of a convex lens with for	•
	A) 0.5 D	B) 1 D
	C) 2 D	D) 4 D
99.	All of the following are treatment modalities employed in glaucoma except	
	A) Goniotomy	B) Trabeculectomy
	C) Nd.YAG laser capsulotomy	D) Nd.YAG laser iridotomy
100.	patient has a red Maddox rod with cylinders oriented vertically in front of the ght eye. What does the patient see when the patient looks at a distant white kation light?	
	A) White light, red horizontal line	B) Red light, white horizontal line
	C) White light, red vertical line	D) Red light, white vertical line

Space for Rough Work

A -16-