Question Booklet Alpha Code



Total Number of Questions : 100

Time: 75 Minutes

Question Booklet SI.

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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.
- 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.

1. The circumcorneal congestion of eyeball is due to dilatation of						
	A) Anterior conjuncti	val vessels	B)	Posterior conjunc	tival vessels	
	C) Anterior ciliary ve	ssels	D)	Posterior ciliary v	essels	
2.	The corneal epitheliu	ım is				
	A) Simple cuboidal		B)	Simple columnar		
	C) Stratified squamo	bus	D)	None of the abov	e	
3.	Normal endothelial c	ount of the cornea is				
	A) 250 cells/mm ²		B)	2500 cells/mm ²		
	C) 5000 cells/mm ²		D)	None of the abov	e	
4.	Normal depth of the	middle part of the ante	erioi	r chamber is		
	A) 0.5 mm	B) 1 mm	C)	2.5 mm	D) 5 mm	
5.	Corneal epithelium d	evelops from				
	A) Surface ectoderm	1	B)	Mesoderm		
	C) Neural crest		D)	Neural ectoderm		
6.	Which is not true reg	arding iris ?				
	A) The iris is thinnes	t at its attachment to	the	ciliary body		
	B) The stroma is cov	vered on its posterior	surfa	ace by two layers	of epithelium	
	C) Dilator pupillae is	arranged radially nea	ar th	e root of the iris		
	D) Sphincter pupillae	e is supplied by the sy	mpa	athetic nervous sys	stem	
7.	Sensory supply of iris	sis				
	A) II cranial N		B)	III cranial N		
	C) IV cranial N		D)	V cranial N		
8.	Which is the vascula	r coat of the eyeball ?)			
	A) Sclera		B)	Choroid		
	C) Retina		D)	Tenon's capsule		

9.	The weakest wall of the orbit is		
	A) Superior wall	B)	Inferior wall
	C) Medial wall	D)	Lateral wall
10	All are filamentous funci except		
	A) Aspergillus	B)	Fusarium
	C) Candida	,כ	Penicillium
		2)	
11.	Bipolar cells are situated in which layer of	he	retina ?
	A) Outer nuclear layer	B)	Inner nuclear layer
	C) Outer plexiform layer	D)	Inner plexiform layer
12.	The posterior end of which muscle insertio	n al	most overlies the macula ?
	A) Superior oblique muscle	B)	Inferior oblique muscle
	C) Superior rectus muscle	D)	Lateral rectus muscle
13	l ateral part of superior orbital fissure trans	mite	s the following structures except
10.			Lacrimal N
	A) Oculomotor N	- B 1	
	A) Oculomotor NC) Frontal N	ь) D)	Trochlear N
	A) Oculomotor NC) Frontal N	ь) D)	Trochlear N
14.	A) Oculomotor NC) Frontal NAction of superior rectus is	ь) D)	Trochlear N
14.	 A) Oculomotor N C) Frontal N Action of superior rectus is A) Elevation, adduction, intorsion 	в) D) B)	Trochlear N Elevation, abduction, intorsion
14.	 A) Oculomotor N C) Frontal N Action of superior rectus is A) Elevation, adduction, intorsion C) Elevation, adduction, extorsion 	в) D) B) D)	Trochlear N Elevation, abduction, intorsion Elevation, abduction, extorsion
14.	 A) Oculomotor N C) Frontal N Action of superior rectus is A) Elevation, adduction, intorsion C) Elevation, adduction, extorsion Which gland is situated in the tarsal plate 2 	в) D) B) D)	Trochlear N Elevation, abduction, intorsion Elevation, abduction, extorsion
14. 15.	 A) Oculomotor N C) Frontal N Action of superior rectus is A) Elevation, adduction, intorsion C) Elevation, adduction, extorsion Which gland is situated in the tarsal plate 4 A) Zeis gland 	в) D) B) D) 8)	Trochlear N Elevation, abduction, intorsion Elevation, abduction, extorsion Gland of moll
14. 15.	 A) Oculomotor N C) Frontal N Action of superior rectus is A) Elevation, adduction, intorsion C) Elevation, adduction, extorsion Which gland is situated in the tarsal plate 4 A) Zeis gland C) Kraure' gland 	B) D) B) D) B) D)	Trochlear N Elevation, abduction, intorsion Elevation, abduction, extorsion Gland of moll Meibomian gland
14. 15. 16.	 A) Oculomotor N C) Frontal N Action of superior rectus is A) Elevation, adduction, intorsion C) Elevation, adduction, extorsion Which gland is situated in the tarsal plate 4 A) Zeis gland C) Kraure' gland All of the following muscles have two arterian 	B) D) B) D) B) D) es t	Trochlear N Elevation, abduction, intorsion Elevation, abduction, extorsion Gland of moll Meibomian gland o supply except
14. 15. 16.	 A) Oculomotor N C) Frontal N Action of superior rectus is A) Elevation, adduction, intorsion C) Elevation, adduction, extorsion Which gland is situated in the tarsal plate 4 A) Zeis gland C) Kraure' gland All of the following muscles have two arteria A) Medial rectus 	B) D) B) D) B) D) es t B)	Trochlear N Elevation, abduction, intorsion Elevation, abduction, extorsion Gland of moll Meibomian gland o supply except Lateral rectus

17.	17. Normal flora of the conjunctival sac consists of						
	A)	Staphi epidermidi	S		B)	Diphtheroids	
	C)	Neisseria catarrha	alis		D)	All of the above	
18.	18. Extended wear contact lens wearers are					e for corneal infect	ion caused by
	A)	Nocardia			B)	Aspergillus	
	C)	Acanthamoeba			D)	Haemophilus	
19.	Yoł	ke muscle of supe	rior	rectus is			
	A)	Inferior rectus			B)	Inferior oblique	
	C)	Superior oblique			D)	None of the abov	e
20.	The	e refractive index o	of co	ornea is			
	A)	1.237	B)	1.376	C)	1.427	D) 1.473
21.	Ac	convex lens of + 2	.0 d	opters has a foca	l dis	stance of	
	A)	2 m	B)	0.5 m	C)	2 cm	D) 0.5 cm
22.	In J	lackson's cross cy	lind	er, the combinatio	n is		
	A)	Spherical compon	nent	is half the strengtl	n ar	nd opposite power	of the cylinder
	B)	Cylinder is half the	e sp	herical strength ar	nd c	opposite power of	the sphere
	C)	Both are equal in	stre	ngth and opposite	in J	oower	
	D)	None of the above	e				
23.	Sci	ssor shadow is se	en i	n			
	A)	Corneal scarring			B)	Keratoconus	
	C)	Irregular astigmat	ism		D)	All of the above	
24.	Ligl	ht rays passing th	roug	h a prism are dev	iate	d	
	A)	towards apex			B)	towards base	
	C)	through the base			D)	none of the above	е

25. The refractive index of the lens nucleus is

A)	1.386	B)	1.41
C)	1.39	D)	1.389

26. The maximum limit of difference in image size between the two eyes which can be tolerated is

- A) 1% B) 5% C) 8% D) 10%
- 27. Towards the point of reversal in retinoscopy
 - A) the nodal point of the observer tends to coincide with the far point of the subject
 - B) the far point of the observer tends to coincide with the nodal point of the subject
 - C) the movement of the retinoscopy reflex becomes slower
 - D) none of the above
- 28. Cycloplegics
 - A) stimulate accommodation B) inhibit accommodation
 - C) blur distant vision D) produce miosis
- 29. The angle of incidence for which the angle of refraction is 90° is called
 - A) The angle of refraction B) Critical angle
 - C) Axial ray D) Critical ray
- 30. Which among the following is not a cycloplegic ?
 - A) Atropine B) Homatropine
 - C) Cyclopentolate D) Phenylephrine
- 31. For every 1 mm change in the radius of curvature of cornea, the refraction changes by
 - A) 4 dioptre B) 5 dioptre
 - C) 6 dioptre D) 8 dioptre

A) Presbyopia B) Emmetropia C) Astigmatism D) Myopia 33. The amount of hypermetropia which may be overcome by accommodation is A) Latent hypermetropia B) Facultative hypermetropia C) Manifest hypermetropia D) None of the above 34. Spherical aberration is eliminated in A) Periscopic lenses B) Meniscus lenses C) Aplanatic lenses D) All of the above 35. De-centering of lenses is useful in A) Asymmetrical face B) Correction of squint C) For near work D) All of the above 36. 10 L power calculation depends on all except A) Axial length of eye B) Anterior chamber depth C) Keratometry values D) Corneal thickness 37. Indication for use of cycloplegics in refraction include A) in children B) in convergent squint C) with sparm of accommodation D) all of the above 38. The hypermetropia which is unmasked by cycloplegics is called A) Absolute hypermetropia B) Manifest hypermetropia C) Total hypermetropia D) Latent hypermetropia Α -7-

32. Image formation at different distances in the two principal meridians is called

39.	Advantages of contact lenses over spectacles									
	A)	Greater field of vis	sion							
	B)	Cosmetically acce	eptable							
	C)	Aberrations associated with spectacles eliminated								
	D)	All of the above								
40.	Sh	ortest acting cyclo	plegic is							
	A)	Phenylephrine		B)	Tropicamide					
	C)	Homatropine		D)	Cyclopentolate					
41.	Im	age magnification	is direct ophthalmosc	ору						
	A)	2 times	B) 5 times	C)	10 times	D)	15 times			
42.	Ac	concave lens alway	ys produces a		image of the	obje	ect.			
	A)	Real, inverted and	d diminished							
	B)	Virtual, erect and	diminished							
	C)	Real, inverted and	d magnified							
	D)	Virtual, erect and	magnified							
43.	To	tal diopteric power	of the eye							
	A)	+ 15 dioptre		B)	+ 43 dioptre					
	C)	+ 58 dioptre		D)	+ 70 dioptre					
44.	An	iseikonia is due to								
	A)	Spherical aberrati	on	B)	Chromatic aberra	ation				
	C)	Unequal size of o	cular images	D)	Unequal image	clarit	ty			
45.	Th	e bending of light r	ays around the apert	ure	of a pinhole is due	e to				
	A)	Refraction		B)	Dispersion					
	C)	Diffraction		D)	Reflection					

46. Wavelength of visible light is

A) 397 – 723 nm	B) 350 – 750 nm
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C) 293 – 710 nm D) 305 – 795 nm

47. Image formed by a convex mirror irrespective of the place of object is

- A) Virtual, erect and diminished B) Virtual, erect and magnified
- C) Real, inverted and diminished D) Real, inverted and magnified
- 48. Following are used for nomenclature of prisms
 - A) Centrad B) Prism dioptre
 - C) Angle of deviation D) All of the above
- 49. If the object is at infinity in front of a convex lens an image is formed at the
 - A) Infinity
 - B) Centre of curvature
 - C) Focal point
 - D) Between centre of curvature and focal point
- 50. In a Sturmsconoid with vertical meridian more curved than the horizontal meridian the image formed at point B is
 - A) Oval ellipse B) Horizontal line
 - C) Vertical line D) Circle
- 51. Bausch and Lamb keratometer works on the principle of
 - A) Variable image size and variable object size
 - B) Variable object size and constant image size
 - C) Constant object size and variable image size
 - D) Constant object size and constant image size
- 52. The maximum power of cylinder in an usual trial set is
 - A) 9 dioptre B) 4 dioptre C) 5 dioptre D) 6 dioptre

- 53. Scheiners principle is used in
 - A) Keratometry
 - C) Autorefractometer

- B) Phoropter
- er D) Streak retinoscopy
- 54. Which is not true about Duochrome test ?
 - A) It is based on chromatic aberration
 - B) It is a subjective method of refraction
 - C) Red and green goggles are necessary
 - D) The normal human eye is myopic for blue colour
- 55. False about Jacksons cross cylinder
 - A) It is used to check the accuracy of axis and power of cylinder
 - B) The principle of oblique cylinders is used to check the axis
 - C) The cylindrical power is half the power of the sphere
 - D) The handle is set at an angle of 45 degree from the axis of the cylinder
- 56. Rigid intraocular lens is made up of

A) Acrylic	B) PMMA	C) Silicon	D) Hydrogel
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	D) 1 111111		_ /

57. SRK formula is

A) $P = A - 2.5 L - 0.9 K$	B) P = A + 2.5 L + 0.9 K
C) $P = A + 0.9 K - 2.5 K$	D) P = A – 0.9 K – 2.5 L

- 58. Synaptophore is used to
 - A) Measure objective and subjective angles of squint
 - B) Assess degrees of binocular single vision
 - C) All of the above
 - D) None of the above
- 59. Following are limitations of aphakic glasses except
 - A) Roving ring scotoma
 - B) Image magnification by 30%
 - C) Accommodation is present
 - D) Spherical aberration produces pin cushion effect

60. Pupilometer is use	ed to		
A) Check inter pu	pillary distance	B) Pupil reactior	ı
C) Relative affere	nt pupillary defect	D) Pupil size	
61. The usual pantoso	copic tilt of spectacles	is around	
A) 15°	B) 7°	C) 20°	D) 25°
62. Most commonly us	sed broad spectrum to	opical antibiotic is	
A) Moxifloxicin		B) Levofloxicin	
C) Gentamicin		D) Tobramycin	
63. The usual size of p	oinhole is		
A) 1.2 mm	B) 3 mm	C) 0.5 mm	D) 1.5 mm
64. Instrument used to	assess the shape of	anterior surface of c	ornea is
A) Retinoscope		B) Phoropter	
C) Placidosdisc		D) Ophthalmosc	ope
65. RAF rule is used f	or all except		
A) Near point of a	ccommodation	B) Near point of	convergence
C) Orthoptic exerc	cises	D) Pupil size	
66. The most accurate	e method of intraocula	r pressure measurer	nent is
A) Schiotz tonome	eter		
B) Tonopen			
C) Goldman Appla	anation tonometer		
D) Perkins tonom	eter		
67. The most preferre	d technique of automa	ated perimetry is	
A) Goldmann peri	metry	B) Octopus perir	metry
C) Listers perimet	ry	D) Humphrey fie	ld analyser

A

68. Ectatic cicatrix of cornea in which iris is incarcerated is known as A) Leucoma B) Adherent leucoma C) Anterior staphyloma D) Macula 69. Antifungal drug used for corneal ulcer C) Gentamicin A) Natamycin B) Acyclovir D) Ganciclovir 70. Prostaglandin analogue used for treatment of primary open angle glaucoma A) Brimonidine B) Latanoprost C) Dorzolamide D) Brinzolamide 71. Follicles in conjunctiva are seen with all except A) Trachoma B) Viral conjunctivitis C) Spring catarrh D) Pilocarpine 72. Strongest cycloplegic mydriatic drug is A) Atropine B) Homatropine C) Cyclopentolate D) Tropicamide 73. The most common cause of bilateral proptosis is A) Pseudotumor B) Lymphoma C) Thyroid eye disease D) Secondaries 74. All are causes of ptosis except A) Third nerve palsy B) Horners syndrome C) Lidtumors D) Coloboma lid 75. Probing is done for A) Chronic dacryocystitis B) Congenital nasolacrimal duct obstruction C) Acute dacryocystitis D) Mucocoele of lacrimal sac

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76. Following are fungi causing corneal ulcer except A) Candida B) Fusarium C) Aspergillus D) Staphylococcus 77. Following are causes of optic disc oedema except A) Papilloedema B) Central retinal venous occlusion C) Optic atrophy D) Optic neuritis 78. Total number of layers in retina A) 10 B) 8 C) 11 D) 12 79. All of the following are age related acquired cataract except A) Cortical cataract B) Posterior subcapsular cataract C) Lamellar cataract D) Nuclear cataract 80. All of the following are associated with acute anterior uveitis except A) Cells B) Flare C) Keratic precipitates D) Choroiditis 81. Angle of anterior chamber is visualised by A) Tonometry B) Gonioscopy C) Slit lamp biomicroscopy D) Ophthalmoscopy 82. Which among the following are grade of Binocular single vision? A) Simultaneous perception B) Fusion C) Stereopsis D) All of the above 83. Manifest divergent squint is A) Esotropia B) Exotropia C) Esophoria D) Exophoria 84. The most common type of Amblyopia among the following is A) Strabismic amblyopia B) Meridional amblyopia C) Ametropic amblyopia D) Stimulus deprivation amblyopia

85.	5. Angle between optical axis and pupillary axis is known as					
	A)	Angle kappa		B)	Angle gamma	
	C)	Angle alpha		D)	Angle delta	
86	Mc	ost sovere chemica	Liniuries occur with			
00.				B)	Alkali	
		Solto		ע) נים	Araania aaida	
	0)	Sans		U)	Organic acius	
87.	87. Rosette shaped cataract is seen in					
	A)	Penetrating traum	a	B)	Blunt trauma	
	C)	Rupture globe		D)	Perforating traum	a
88.	Th	e type of retinal de	tachment which occu	rs fo	ollowing retinal tea	rs or holes is
	A)	Rheamatogenous		B)	Exudative	
	C)	Tractional		–, D)	All of the above	
	- /			-,		
89.	89. Laser photocoagulation is done for which of the following stage of Diabetic retinopathy ?					of Diabetic
	A)	Mild non proliferat	ive	B)	Moderate non pro	oliferative
	C)	High risk proliferat	tive	D)	Tractional detach	ment
90.	Bif	ocals are prescribe	ed in which type of squ	uint	?	
	A)	Exotropia for dista	ince	B)	Esotropia for dist	ance
	C)	Esotropia for near		D)	Exotropia for nea	r
91.	Wł	no is the Chairman	of District Blindness (Con	trol Society ?	
	A)	District Magistrate		B)	District Collector	
	C)	Chief Medical Offi	cer	D)	Civil Surgeon	
	,			,	0	
92.	Vis 202	ion 2020 aims to b 20 ?	oring down blindness t	o h	ow much percenta	ige by the year
	A)	1%	B) 0.3%	C)	0.75%	D) 2.2%

93.	Post mortem enucleation for corneal trans how many hours of death ?				splantation should be ideally done within			
	A)	8 – 12 hours		B)	4 – 6 hours			
	C)	10 – 12 hours		D)	24 hours			
94.	Th	e year in which NP	CB was launched in I	ndia	a			
	A)	1976	B) 1974	C)	1984	D) 1986		
95.	Bliı	ndness in prematu	re and low birth weigh	nt in	fants can occur du	ue to		
	A)	Retinoblastoma		B)	Retinopathy of pr	ematurity		
	C)	Retinitis		D)	Choroiditis			
96.	Sterilisation with steam under pressure is done by							
	A)	Hot air oven		B)	Autoclaving			
	C)	Ethylene oxide		D)	Gluteraldehyde			
97.	Fo	llowing are optical	low visual aids excep	t				
	A)	Stand magnifier		B)	Closed circuit tele	evision		
	C)	Telescope		D)	White cane			
98.	SA	FE strategy is imp	lemented for control of	of				
	A)	Diabetes		B)	Childhood blindn	ess		
	C)	Trachoma		D)	Injuries			
99.	Th	e most common ca	ause of blindness in Ir	ndia	is			
	A)	Diabetic retinopat	hy	B)	Glaucoma			
	C)	Age related macu	lar degeneration	D)	Cataract			
100.	Ste	rilisation of operati	on theatre is done by					
	A)	Formaldehyde		B)	Ethylene oxide			
	C)	Hot air oven		D)	Gluteraldehyde			

Space for Rough Work