

Government Medical College and Hospital Sector 32, Chandigarh

Post: Senior Resident Ophthalmology

QUESTION BOOKLET

Time: 120 Minutes

Number of Question: 100

Maximum Marks: 100

Name of Candidate

Roll Number: In figure

In Words

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Signature of the Candidate: _____

DO NOT OPEN THE SEAL ON THE BOOKLET UNTIL ASKED TO DO SO

INSTRUCTIONS:-

1. Write your Roll Number on the Question Booklet and also on the OMR Sheet in the space provided. You will be required to give your thumb impression on the OMR sheet in the space provided.
2. This question booklet contains 100 MCQ's. Once you are permitted to open the Question Booklet, please check for any missing question / misprint etc. and in case of any discrepancy, inform the Assistant Superintendent / Invigilator within 10 minutes of the start of the test.
3. Each question has four alternative answer (A, B, C, D) out of which only one is correct. For each question, **darken only one bubble (A or B or C or D)**, whichever you think is the correct answer, on the OMR Answer sheet **with Black or Blue Ball Pen only**. Do not use any other Pen / Gel pen / Pencil etc. **Do not Tick ✓ or × on the OMR Sheet**. Darken the bubbles in the OMR Answer Sheet according to the Serial No. of the Questions given in the Question Booklet.
4. Each MCQ is of One (01) mark. There is no negative marking.
5. If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the OMR Answer sheet.
6. The OMR Answer sheet is designed for computer evaluation. Therefore, if you do not follow the instructions given, it may make evaluation by the computer difficult. Any resultant loss to the candidates on the above account, i.e. not following instructions completely and properly, shall be the responsibility of the candidates only.
7. After the test, handover the Question Booklet and OMR sheet to the Invigilator on duty.
8. A Candidate who creates disturbance of any kind or changes his/her seat or is found in possession of any paper or the any assistance or found giving or receiving assistance or found using any other unfair means during the examination will be expelled from the examination by the Centre superintendent/Observer whose decision shall be final.
9. Telecommunication equipment such as pager, cellular phone, wireless, scanner, smart watch/ watch etc. is not permitted inside the examination hall. Use of calculators is not allowed.
10. Candidate should ensure accuracy of their personal details on the OMR Sheet i.e. Name and Roll No. as well as thumb impression. The personal details are to be filled in by the candidates with his/her own hand writing.

1. Which of the following IS NOT associated with uveitis?
 - A. HLA A 29
 - B. HLA B7
 - C. HLA B51
 - D. HLA DR1
2. Universal procedure for ectropion and entropion is
 - A. Lateral tarsal strip
 - B. Weiss
 - C. Wheeler
 - D. Quickert
3. Maximum hyperemia is caused by
 - A. Bimatoprost
 - B. Latanoprost
 - C. Travoprost
 - D. Tafluprost
4. MMC is useful in
 - A. Failed DCR
 - B. Pediatric DCR
 - C. Lacrimal sac fistula
 - D. Primary DCR
5. All are true for keratoconus EXCEPT
 - A. Bowman layer transplant
 - B. Ferrarra ring
 - C. Kera ring
 - D. C3R 30 Mw/cm² for 10 minutes
6. DALK can be done in all EXCEPT
 - A. Lattice degeneration
 - B. Granular degeneration
 - C. PPMD
 - D. Macular degeneration
7. All are used for keratoprosthesis EXCEPT
 - A. Bone
 - B. Teeth
 - C. Cartilage
 - D. PMMA
8. What is effective in plateau iris?
 - A. Laser iridoplasty
 - B. SLT
 - C. PI
 - D. Endocyclophotocoagulation
9. Result of ABC and AVB study
 - A. Baerveldt implant has greater success
 - B. Baerveldt implant has greater risk of vision loss
 - C. Ahmed valve has lower IOP
 - D. Ahmed valve leads to more complication
10. True about ACCORD study:
 - A. Control of BP is essential
 - B. Intensive glycemic control
 - C. Fenofibrate is very effective in decreasing cholesterol
 - D. Fenofibrate is effective in patient with increased triglyceride
11. Visual field showing a superior Seidel scotoma close to the fixation point is suggestive of
 - A. NTG
 - B. POAG
 - C. Macular BRVO
 - D. PACG
12. Non-glaucomatous cupping will be seen in all EXCEPT:
 - A. LHON
 - B. Methanol poisoning
 - C. Chiasmal lesion
 - D. Periventricular leukomalacia
13. In sympathetic ophthalmitis 90% of the cases present within
 - A. 3 months
 - B. 12 months
 - C. 36 months
 - D. 60 months
14. True about toxoplasmosis in HIV patients is?
 - A. Lesion occur around old lesions
 - B. All cases of ocular toxoplasmosis have CNS lesion
 - C. Ocular toxoplasmosis has no correlation with CNS lesion
 - D. More around perivascular area
15. Most effective treatment to reduce choroidal hyperpermeability is
 - A. Anti-VEGF
 - B. PDT
 - C. Laser
 - D. Lifestyle modification

16. CNVM in RAP is also known as
 - A. Type 1
 - B. Type 2
 - C. Type 3
 - D. Type 4
17. Manifest latent nystagmus all are true EXCEPT
 - A. Monocular vision is poor than binocular vision
 - B. Fast component is in the direction of the fixing eye
 - C. In right gaze it is right beating and in left gaze left beating
 - D. Minimum in adduction
18. Superior rectus act as a
 - A. Pure intorter at 67 degree adduction
 - B. Pure adductor at 23 degree abduction
 - C. Adductor in all 9 gazes
 - D. Abductor in 33 degree abduction
19. Urgent indication for ptosis surgery in children is
 - A. Severe ptosis
 - B. Amblyopia
 - C. Chin up position
 - D. None of the above
20. True about HEDS is
 - A. Topical steroids decrease the duration of the disease
 - B. Topical steroids delay epithelization
 - C. Topical steroids increase the final vision
 - D. Topical steroids are contraindicated
21. To establish the etiological origin of a disease, the best study is
 - A. Case control study
 - B. Nested case control study
 - C. Ecological study
 - D. Cohort study
22. VISICAN gene in chondroitin sulphate is positive in
 - A. Iris
 - B. Ciliary body
 - C. Vitreous
 - D. Cornea
23. Mackey classification is for
 - A. Dry eye disease
 - B. Neurotrophic keratitis
 - C. Chemical injury
 - D. Amoebic keratitis
24. A patient presented with inability to adduct the right eye with abduction nystagmus in the other eye, no squint and no difficulty in convergence; the lesion is in?
 - A. Right MLF
 - B. Left MLF
 - C. Right PPRF
 - D. Left PPRF
25. What is false according to the newer nomenclature about the OCT inter-digitation line?
 - A. Hyper-reflective band
 - B. Cones interdigitate with RPE
 - C. Cone inner segment with outer segment
 - D. Located in between ellipsoid zone and RPE-bruch complex
26. Treatment of choice for periocular capillary hemangioma is
 - A. Propranolol
 - B. Oral steroids
 - C. Pulse i/v steroids
 - D. Cryotherapy
27. CXL is most effective in
 - A. Bacterial keratitis
 - B. Viral keratitis
 - C. Fungal keratitis
 - D. Acanthamoeba keratitis
28. CXL increases the corneal rigidity by
 - A. 100%
 - B. 70%
 - C. 40%
 - D. 50%
29. Maximum chance of amblyopia with 3.5D refractive error and no squint in infants is in?
 - A. Astigmatism
 - B. Myopia
 - C. Hypermetropia
 - D. None of the above

30. VISA score is for
 A. Thyroid ophthalmopathy
 B. Orbital cellulitis
 C. Orbital lymphoma
 D. Retinoblastoma
31. Which of the following is not MIGS?
 A. Trabectome
 B. Xen stent
 C. Express shunt
 D. iStent
32. All are true about Bardet-Biedel syndrome EXCEPT
 A. Obesity
 B. RP
 C. Fundal coloboma
 D. Hypogonadism
33. All are true about pigment dispersion syndrome EXCEPT
 A. UBM is essential for treatment
 B. Iris insertion is posteriorly
 C. Trabecular meshwork pigmentation
 D. Lattice degeneration
34. All are true about Retcam EXCEPT:
 A. OCT cannot be done
 B. Field of view is 130 degree
 C. FFA and ICG can be done
 D. Telemedicine
35. All are true for IRVAN EXCEPT
 A. Vasculitis
 B. Capillary non-perfusion areas
 C. CNVM
 D. Aneurysms
36. Two parallel test in glaucoma increases
 A. Positive predictive value
 B. Sensitivity
 C. Specificity
 D. Both sensitivity and specificity
37. All are true about cataract surgical coverage EXCEPT
 A. It is a qualitative indicator
 B. Impact of interventional programme
 C. It is the ratio of number of surgeries done to the number of surgeries required and previously operated
 D. Can be assessed with RAVI
38. Hydrogel expander is used for
 A. Pediatric contracted socket
 B. Post radiation contracted socket
 C. Severely contracted socket
 D. None of the above
39. Which of the following is not done in bilateral ptosis with Marcus Gunn jaw winking phenomena?
 A. Resection
 B. B/l excision with sling
 C. Only sling
 D. U/l sling
40. Femtodelineation is done in
 A. Posterior polar cataract
 B. Diabetic cataract
 C. Traumatic cataract
 D. Hard cataract
41. CXL was FDA approved in
 A. 2013
 B. 2016
 C. Not yet approved
 D. 2004
42. Which of the following muscle has shortest muscle belly
 A. SO
 B. SR
 C. IR
 D. IO
43. All are releasable sutures EXCEPT
 A. Wilson
 B. Shin
 C. Cohen
 D. Copenhagen
44. Which of the following is a side effect of travoprost?
 A. Neonatal tachypnea
 B. Bipolar disorder
 C. Orbitopathy
 D. Decreased trabecular outflow
45. What is the frequency used in zepto capsulotomy ?
 A. 10^{-21}
 B. 10^{-15}
 C. 10^{-18}
 D. 10^{-24}

46. FDA approved range of SMILE?
 A. -1DS to -8DS and -0.5DC
 B. +4DS to -10DS and -0.5DC
 C. -1DS to -8DS and -3DC
 D. +4DS to -10DS and -3DC
47. Suveges classification is used for
 A. PMD
 B. TMD
 C. Keratoconus
 D. Keratoglobus
48. Collagen cross linking IS NOT used for
 A. Post lasik ectasia
 B. Infectious keratitis
 C. Keratoconus
 D. Ocular surface disorder
49. All are true regarding Von Hippel internal ulcer EXCEPT
 A. Also known as peter type III
 B. Non-inflammatory
 C. Focal defect in Descemet membrane
 D. Iris strands at the margin
50. Arg555Trp mutation is seen in
 A. Granular type I
 B. Granular type II
 C. Lattice
 D. Reis Buckler
51. Management of negative dysphotopsia includes:
 A. Miosis
 B. Horizontal placement of haptics
 C. Acrylic IOL
 D. Vertical placement of haptics
52. All are true for Horner's syndrome EXCEPT
 A. Mydriasis
 B. Anhydrosis
 C. Ptosis
 D. Enophthalmos
53. All are true about GAPP syndrome EXCEPT:
 A. Occurs in post procedure period
 B. Bilateral
 C. Normal vision
 D. Dryness and iritis
54. All are true about cluster endophthalmitis EXCEPT:
 A. Defect in cold chain
 B. Procurement from spurious sources
 C. Failure of sterilization
 D. Less than 2 cases
55. STAR calculator is used for
 A. Thyroid eye disease
 B. Keratoconus
 C. Diabetic retinopathy
 D. Ocular hypertension
56. Tonopen XL gives average of how many readings?
 A. 4
 B. 7
 C. 10
 D. Single
57. All are neural crest derived EXCEPT?
 A. Trabecular meshwork
 B. Corneal endothelium
 C. Ciliary epithelium
 D. Iris stroma
58. All are associated with glaucoma EXCEPT?
 A. Juvenile xanthogranuloma
 B. Bournville disease
 C. Atopic dermatitis
 D. Oculodermal melanocytosis
59. In AGIS, no progression was noted on visual field when IOP was
 A. Below 18 mm Hg on follow up
 B. Below 16 mm Hg on follow up
 C. Below 14 mm Hg on follow up
 D. Below 12 mm Hg on follow up
60. Which of the following higher order aberration is associated with keratoconus?
 A. Vertical coma
 B. Horizontal coma
 C. Vertical quadrifoil
 D. Oblique quadrifoil
61. Muraine punch is used for
 A. Preparation of Bowman membrane graft
 B. DMEK
 C. Rotational keratoplasty
 D. DSAEK

62. Vision is least affected in
 A. Granular dystrophy
 B. Macular dystrophy
 C. Central cloudy dystrophy
 D. Lattice dystrophy
63. Preterm child with ROP zone 2, stage 2 disease; treatment of choice is?
 A. Laser
 B. Observe
 C. Vitrectomy
 D. Anti-Vegf
64. Pregnant women with open angles, IOP 26 and 34 mm Hg and CDR 0.6 and 0.8 in right and left eye respectively. Which of the following is done?
 A. Abort the fetus
 B. Surgical management
 C. Laser trabeculoplasty
 D. Laser PI
65. Patient with hypotonic maculopathy, which is the best modality to examine and quantify cyclodialysis cleft?
 A. Anterior segment OCT
 B. UBM
 C. Pre-op gonioscopy
 D. Intra-op gonioscopy
66. Number of anterior ciliary vessels
 A. 4
 B. 5
 C. 6
 D. 7
67. All are risk factors for glaucoma EXCEPT
 A. Thin CCT
 B. Age
 C. Low hysteresis
 D. Caucasian race
68. One year old child with unilateral pulsating proptosis and mechanical ptosis since birth, most likely cause is?
 A. Capillary hemangioma
 B. Orbital neurofibromatosis
 C. Lymphangioma
 D. Teratoma
69. False about DMEK is?
 A. DMEK uses 9-10 mm graft while DSAEK uses 8-9 mm
 B. Endothelial cell loss is less in DMEK
 C. Interface haze/ fluid is less in DMEK
 D. Both need atleast 400 micron thickness of cornea
70. At which site is congenital giant nevus most prone to convert to melanoma?
 A. Basal epithelium
 B. Basement membrane
 C. Dermis
 D. Epidermis
71. False about femto is?
 A. Photodisruption
 B. 1043 nm
 C. pulse in nanosecond
 D. infrared
72. Minimal IOP variation is seen in?
 A. Slow phaco
 B. Gravity assisted fluidics
 C. Venturi system
 D. Active fluidics
73. DALK is not done in?
 A. Fuch's dystrophy
 B. Macular dystrophy
 C. Stromal dystrophy
 D. Keratoconus
74. DME patient with 6/18 vision and central thickness of 500 um; treatment is?
 A. PST
 B. IVTA
 C. I/V Ranibizumab
 D. Grid laser
75. Axial length should be repeated if the difference between two eyes is?
 A. 0.1
 B. 0.2
 C. 0.3
 D. 0.25
76. Lucid interval is not seen in?
 A. Herpes keratitis
 B. Staphylococcal keratitis
 C. Pellucid marginal degeneration
 D. Arcus senilis

77. Cryo temperature used for trichiasis is?
- 80°
 - 20°
 - 60°
 - 40°
78. Henle's layer is formed by?
- Photoreceptors
 - Bipolar cells
 - Muller cells
 - Ganglion cells
79. All of the following are true for macular telangiectasia except?
- Foveal thickening
 - Leakage on FFA
 - Secondary CNVM
 - Hyperpigmentation
80. In Best disease vision loss starts at the age of?
- III
 - IV
 - II
 - V
81. Swept source OCT is useful for all except?
- VKH
 - Idiopathic macular hole
 - Non-neovascular ARMD
 - CSCR
82. Thickness of bruchs membrane is?
- 5 microns
 - 10 microns
 - 50 microns
 - 2 microns
83. Which implant is recently approved for the treatment of DME?
- Eyelea
 - Ozurdex
 - Iluvein
 - Retisert
84. All are true regarding tamelteon except?
- Approved only for non 24 hour sleep wake disturbance in blind patients
 - Also useful in jet lag/shift
 - Agonist of melatonin receptor in suprachiasmatic nucleus
 - Resets circadian rhythm
85. Safe non-toxic dose of r-TPA for sub-retinal use?
- 12.5 microgram/0.1 ml
 - 10 microgram/0.1 ml
 - 10 microgram/0.05 ml
 - 20 microgram/0.1 ml
86. All of the following are indications for dacryocystectomy except?
- Tubercular dacryocystitis
 - Rhinosporidiosis of lacrimal sac
 - Wegener's of lacrimal sac
 - Recurrent dacryocystitis
87. Tomographic notch sign is seen in?
- Classic CNVM
 - Occult CNVM
 - RAP
 - PCV
88. All of the following are signs of myasthenia eye disease except?
- Sunset sign
 - Cogan twitch
 - Eyelash sign
 - Lid flutter
89. 12 year old boy with inability to elevate one eye in both adduction and abduction, bells phenomena is normal and passive duction is also normal. The patient has?
- MED
 - IR entrapment
 - Thyroid eye disease
 - Myasthenia gravis
90. Which is the least common finding seen in coats disease?
- Retinal neovascularization
 - Intraretinal exudate
 - Subretinal exudate
 - Neovascular glaucoma

91. Rashtriya Bal Surakshna Yojna includes all EXCEPT
- ROP
 - Congenital glaucoma
 - Vitamin A deficiency
 - Congenital cataract
92. All are true about aflibercept EXCEPT
- It contains intracellular domain of VEGF receptor
 - It binds VEGF A, B and placental growth factor
 - It is a decoy receptor used in ARMD
 - It is FDA approved for colorectal cancer
93. Which of the following is **not** seen in PHPV?
- RD
 - Microphthalmos
 - Cataract
 - Peripheral non-perfusion
94. Objective measurement of cyclotorsion is done using?
- Iris photography
 - Maddox wing
 - Blind spot charting
 - Synaptophore
95. Anisocoria is **not** seen in?
- Pontine hemorrhage
 - Marcus gun pupil
 - Adies tonic pupil
 - ARP
96. Smart phone is used in glaucoma for all EXCEPT
- Visual field charting
 - Monitoring of IOP
 - Severity of grading
 - Anterior segment and fundus photography
97. Regier anomaly includes all except?
- Mid peripheral iris adhesion
 - Posterior embryotoxon
 - Polycoria
 - Dental anomalies
98. Diffuse infiltrative RB all are true except?
- Usually seen in younger children
 - May not have a definite mass
 - Simulate uveitis
 - May not show calcification
99. IOL glistening all are true except?
- Affects visual acuity
 - Affects to some extent all IOL including hydrophobic acrylic and PMMA
 - Fluid voids in IOL
 - Preferentially affects higher spatial frequency contrast sensitivity
100. In a case of blunt trauma acute sign which is predictor of chronic glaucoma is all except?
- >180 degree angle recession
 - Lenticular subluxation
 - Angle heavy pigmentation
 - Choroidal rupture

SUBJECT OPHTHALMOLOGY KEY

1	D	21	D	41	B
2	A	22	C	42	A
3	A	23	B	43	D
4	A	24	A	44	C
5	D	25	C	45	A
6	C	26	A	46	A
7	C	27	A	47	B
8	D	28	B	48	D
9	B	29	A	49	B
10	A	30	A	50	A
11	A	31	C	51	B
12	D	32	C	52	A
13	B	33	A	53	D
14	D	34	C	54	D
15	A	35	C	55	D
16	C	36	B	56	A
17	C	37	A	57	C
18	A	38	A	58	C
19	B	39	A	59	A
20	A	40	A	60	A
61	B	81	C		
62	C	82	D		
63	A	83	C		
64	C	84	D		
65	A	85	A		
66	D	86	B		
67	D	87	D		
68	B	88	A		
69	B	89	A		
70	C	90	A		
71	C	91	B		
72	D	92	A		
73	A	93	A		
74	C	94	A		
75	C	95	B		
76	B	96	C		
77	B	97	D		
78	D	98	A		
79	A	99	A		
80	B	100	D		