FINAL ANSWER KEY

Question Paper Code: Category Code: Exam: Medium of Question: Date of Test Department Alphacode 6/2020/OL 081/2019 Assistant Professor in Ophthalmology English 19-02-2020 Medical Education A

Question1:-A snellen visual acuity of 20/200 is equivalent to which of the following logMAR values.

A:-1.00 B:-0 C:-10.00 D:-0.10 Correct Answer:- Option-A Question2:-The corneal endothelium on slitlamp biomicroscopy is examined using A:-Direct illumination **B:-Sclerotic scatter** C:-Specular reflection **D:-Retro illumination** Correct Answer:- Option-C Question3:-Which of the following does not commonly cause glare? A:-Iritis **B:-Corneal scar** C:-Posteriorsubcapsular cataract D:-Albinism Correct Answer:- Option-A Question4:-Corneal haze in corneal edema is primarily due to A:-reflection **B:-light scattering** C:-refraction D:-diffraction Correct Answer:- Option-B Question5:-All of the following statements are true regarding photoreceptors except A:-There are approximately 120 million rods in the eye B:-Rods are absent at the fovea C:-The ratio of Photoreceptors to Ganglion cells is 10:1 D:-There are approximately 20 million cones in the eye Correct Answer:-Question Cancelled Question6:-Sphincter and dilator muscle of iris is derived from A:-surface ectoderm B:-mesenchyme C:-neuroectoderm D:-pupillary membrane Correct Answer:- Option-C Question7:-Regarding angle kappa, which is the correct statement? A:-It is the angle between optic axis and visual axis B:-Positive angle kappa is seen in myopia C:-It is the angle between pupillary axis and visual axis D:-Positive angle Kappa gives the appearance of pseudoesotropia Correct Answer:- Option-C Question8:-Which of the following statements is true? A:-Basal tear secretion is maintained by the main lacrimal gland B:-Schirmers Test II measures the basal tear secretion only C:-TBUT test less than 10 sec is normal D:-Schirmer Test I measures both basal & reflex secretion Correct Answer:-Question Cancelled Question9:-Stiles-Crawford effect refers to

A:-reduced sensitivity of peripheral retina B:-Peripheral rays cut off by iris to counteract optical aberrations C:-greater sensitivity of retinal photoreceptors to perpendicular rays rather than oblique rays D:-higher refractive index of core of lens nucleus than peripheral cortex Correct Answer:- Option-C Question10:-All the following statements regarding aqueous humour are true except A:-The glucose content is approximately 80% of that of plasma B:-The lactate concentration is twice that of plasma C:-Aqueous has relatively low ascorbic acid content D:-Active secretion accounts for the major fraction in aqueous secretion Correct Answer:- Option-C Question11:-Regarding extra ocular movements - identify the false statement A:-The primary action of inferior oblique is excyclotorsion B:-The right inferior oblique & Left superior rectus are yoked muscles C:-The primary action of superior oblique muscle is incyclotorsion D:-The Right medial rectus & Left lateral rectus are antagonistic muscles Correct Answer:- Option-D Question12:-The following charts are used in the testing of contrast sensitivity except A:-Vistech chart B:-Cambridge gratings C:-Rosenbaums chart D:-Regan charts Correct Answer:- Option-C Question13:-In fourth nerve palsy A:-Hyperdeviation increases on contralateral head tilt B:-Microvascular occlusion is the most common cause C:-Vertical fusion range more that 3D suggests congenital palsy D:-Excyclotorsion less than 10 degrees suggest bilateral involvement Correct Answer:- Option-C Question14:-In Electrophysiology, which of the following statement is true A:-The EOG originates in the photoreceptors B:-The a wave of ERG originates in muller cells C:-Pattern ERG is a measure of ganglion cell function D:-100% is an abnormal Arden ratio Correct Answer:-Question Cancelled Question15:-The Enhanced depth imaging modality in OCT is primarily useful in studying A:-Inner retinal layers **B:-Outer retinal layers** C:-Choroid D:-Middle retinal layers Correct Answer:- Option-C Question16:-All of the following are true regarding the lacrimal drainage system except A:-Positive Jones dye test implies physiological functioning of the system B:-soft stop is characteristic of canalicular obstruction C:-In lacrimal pump failure, Jones dye test is negative D:-lipiodal is the agent used in scintillography Correct Answer:- Option-D Question17:-Regarding Anisocoria, A:-Increased anisocoria in dim light implies abnormality of the smaller pupil B:-vermiform movements of pupil is seen in Horner's syndrome C:-Physiological anisocoria is seen in 10% of population D:-In longstanding Adie's pupil, the pupil appears to be larger in size Correct Answer:- Option-A Question18:-CT vesus MRI, All of the following are true except A:-CT has faster image acquisition time B:-CT shows artefacts from dental amalgam & bone C:-MRI can display images in any anatomical plane D:-In MRI, bright signal within vessel indicates blood flow Correct Answer:- Option-D

Question19:-Which of the following are true?

A:-Heroin causes mydriasis

B:-Botulinum toxin causes miosis

C:-Nicotine produces mydriasis

D:-Amphetamine causes miosis

Correct Answer:-Question Cancelled

Question20:-Results of streak retinoscopy performed on an adult patient at a testing distance of 67 cm is as follows: + 2D sph neutralises reflex when streak is horizontal (180); + 3D sph neutralises reflex when streak is vertical (90). Which of the following refraction is correct?

A:-+0.50 Dsph + 1 Dcyl 90 degrees B:-+0.50 Dsph - 1 Dcyl 90 degrees C:-+2.00 Dsph + 1 Dcyl 90 degrees D:-+2.00 Dsph -1 Dcyl 90 degrees Correct Answer:- Option-A Question21:-Bruckner's test is A:-useful test to measure deviation in strabismus B:-done using indirect ophthalmoscope C:-used in screening of strabismus & anisometropia in infants D:-difference in colour of fundal reflex more important than brightness Correct Answer:- Option-C Question22:-Corneal wedge technique in gonioscopy is useful to identify A:-schwalbe's line **B:-anterior nonpigmented Trabeculum** C:-posterior pigmented Trabeculum D:-scleral spur Correct Answer:- Option-A Question23:-The following statements are true regarding Brimonidine except A:-selective alpha blocker B:-follicular conjunctivitis C:-hypotension D:-apnoea Correct Answer:- Option-A Question24:-Charles Bonnet syndrome is characterised by all except A:-visual hallucinations B:-severe visual impairment C:-patients have insight into the nature of their illness D:-patients often have associated neurological/psychiatric illness Correct Answer:- Option-D Question25:-Pick out the wrong drug composition of prostaglandin analogues A:-Latanoprost 0.005% B:-Bimatoprost 0.02% C:-Travaprost 0.004% D:-Brimonidine 0.15% Correct Answer:- Option-B Question26:-Preperimetric diagnostic Tests in glaucoma include all except A:-SWAP B:-OCT C:-Glaucoma hemifield Test D:-scanning laser polarimeter Correct Answer:- Option-C Question27:-Regarding Acanthamoeba, all are true except A:-exists as active trophozoite or dormant cysts B:-have been isolated from public water supplies & soil C:-Neomycin is effective against both Trophozoite & cysts D:-It is grown on non nutrient agar Correct Answer:- Option-C Question28:-Vancomycin A:-Interferes with nucleic acid synthesis B:-Is bactericidal against Gram negative bacteria

C:-Is poorly absorbed from gut D:-Intravitreal dose is 400 µg/0.1ml Correct Answer:- Option-C Question29:-Statistical analysis in Octopus perimetry includes all except A:-pattern standard deviation **B:-loss variance** C:-mean sensitivity D:-bebie curve Correct Answer:- Option-A Question30:-Properties of the drug Foscarnet includes all except A:-It reversibly inhibits viral specific DNA polymerase & reverse transcriptase. B:-It has an intrinsic anti HIV effect C:-It is active against CMV virus D:-Neutropenia is a common side effect Correct Answer:- Option-D Question31:-Double circulation in FFA is seen in A:-Retinal telangiectasia B:-Choroidal melanoma C:-Angioid streaks D:-Retinoblastoma Correct Answer:- Option-B Question32:-Glaucoma in angle recession is due to A:-damage to Trabecular meshwork B:-associated lens subluxation C:-Iridodialysis D:-tears in the ciliary body Correct Answer:- Option-A Question33:-Optic nerve glioma is most frequently associated with A:-Sturge - weber syndrome B:-Neurofibromatosis Type 1 **C:-Peters** anomaly D:-Neurofibromatosis Type 2 Correct Answer:- Option-B Question34:-Posner Schlossman syndrome is characterised by A:-chronic low grade iritis B:-extensive peripheral anterior synechiae C:-stellatekeratic precipitates D:-few aqueous cells & keraticprecipates Correct Answer:- Option-D Question35:-The following statements are true about cilioretinal artery except A:-cilioretinal artery is present in about 30% individuals B:-cilioretinal artery occlusion may occur in combination with AION C:-cilioretinal artery is a branch of ophthalmic artery D:-cilioretinal artery occlusion may occur in combination with CRVO Correct Answer:- Option-C Question36:-Selective laser Trabeculoplasty is a good option in the treatment of A:-Primary angle closure glaucoma B:-Primary open angle glaucoma C:-Angle recession glaucoma D:-Congenital glaucoma Correct Answer:- Option-B Question37:-Minimal invasive glaucoma surgery includes all except A:-Express shunt B:-i stent C:-AADI D:-xen gel implant Correct Answer:- Option-C Question38:-Congenital stationary night blindness is a feature of A:-Lebers congenital amaurosis

B:-Fundus albipunctatus C:-Usher syndrome D:-Retinitis punctataalbescens Correct Answer:- Option-B Question39:-The commonest type of intraocular tumour is A:-melanoma **B:-retinoblastoma** C:-lymphoma D:-metastatic neoplasm Correct Answer:- Option-D Question40:-A 35 year old woman presents with an asymptomatic dome shaped orange mass in the midperipheral fundus with overlying exudative retinal detachment. A scan USG shows high anterior spike with high internal reflectively. What is the most probable diagnosis? A:-Posterior scleritis **B:-Choroidal metastasis** C:-Amelanotic choroidal melanoma D:-Circumscribed choroidal hemangioma Correct Answer:- Option-D Question41:-Which of the following neoplastic lesions of the conjunctiva is most likely to be associated with a systemic neoplastic disease? A:-Ocular surface squamous neoplasia **B:-Conjunctival papilloma** C:-Conjunctival lymphoma D:-Conjunctival melanoma Correct Answer:- Option-C Question42:-Bull's eye maculopathy is a feature of all except A:-Cone dystrophy B:-Stargardt's disease C:-Toxic maculopathy D:-High myopia Correct Answer:- Option-D Question43:-In subluxated lenses, the following are true except A:-inverse glaucoma is a feature of microspherophakia B:-accommodation is lost in Homocystinuria C:-Oil drop sign seen in anterior dislocation of clear lens D:-subluxation is typically downward in Weil- Marchesani syndrome Correct Answer:-Ouestion Cancelled Question44:-In corneal graft rejection, the following are true except A:-risk of rejection is higher with large grafts B:-small grafts give rise to astigmatism C:-early graft failure (within first week) is mainly due to rejection D:-lower risk of rejection in lamellar keratoplasty Correct Answer:- Option-C Question45:-Recurrent corneal erosions is a feature of A:-Macular dystrophy B:-Cogans microcystic dystrophy C:-Fuchs dystrophy D:-Posterior polymorphous dystrophy Correct Answer:- Option-B Question46:-The following are features of posterior sclerits except A:-Proptosis **B:-choroidal folds** C:-Disc edema D:-associated with Harada's disease Correct Answer:- Option-D Question47:-In Phacoemulsification, nucleus fracture techniques includes all except A:-divide & conquer **B:-sandwich technique** C:-chip & flip technique D:-chop technique

Correct Answer:- Option-B Question48:-Ocular manifestations of AIDS include all except A:-Kaposi sarcoma B:-retinal microangiopathy C:-frosted branch angitis D:-pars planitis Correct Answer:- Option-D Question49:-Heterochromia Iridis is seen is all except A:-Horner's syndrome **B:-ocular siderosis** C:-Fuchs uveitis syndrome D:-multiple sclerosis Correct Answer:- Option-D Question50:-Features of occult globe rupture include all except A:-Irregular, deep A C **B:-Hypotony** C:-Dense hemorrhagic chemosis D:-Choroidal rupture Correct Answer:- Option-D Question51:-The usual angle subtended by the visual axis and anatomical axis of the eye is A:-0 degree B:-5 degree C:-10 degree D:-15 degree Correct Answer:- Option-B Question52:-The superior rectus muscle is inserted mm behind the superior limbus A:-5.5 mm B:-6.5 mm C:-6.9 mm D:-7.7 mm Correct Answer:- Option-D Question53:-The primary and secondary actions of superior rectus muscle are A:-elevation, adduction and intorsion B:-elevation, abduction and intorsion C:-elevation, adduction and extorsion D:-elevation, abduction and extorsion Correct Answer:- Option-A Question54:-The angle subtended between the visual axis and the orbital axis when the eye looks straight ahead at a fixed point is A:-10 degree B:-23 degree C:-30 degree D:-35 degree Correct Answer:- Option-B Question55:-The yoke muscle of left superior oblique is A:-left inferior oblique B:-right inferior obligue C:-right inferior rectus D:-left inferior rectus Correct Answer:- Option-C Question56:-In paretic squint A:-secondary deviation is the same as primary deviation B:-secondary deviation exceeds primary deviation C:-secondary deviation is less than primary deviation D:-none of the above Correct Answer:- Option-B Question57:-The following are tests for stereopsis EXCEPT A:-TNO **B:-FRISBY**

C:-TITMUS D:-CARDIFF CARDS Correct Answer:- Option-D Question58:-During Hirschberg test, if the corneal light reflection is seen at the temporal border of a 4 mm size pupil the angle of deviation of the eye is about A:-5 degree B:-15 degree C:-30 degree D:-45 degree Correct Answer:- Option-B Question59:-The following statements about congenital / essential / infantile esotropia are true EXCEPT A:-idiopathic condition with a small (<10 D) angle of deviation B:-develops within first 6 months of life C:-no significant refractive error D:-associated with limitation of ocular movements Correct Answer:-Ouestion Cancelled Question60:-The following surgical procedure weakens the action of an extraocular muscle A:-resection B:-advancement of muscle nearer to the limbus C:-posterior fixation suture D:-tucking Correct Answer:- Option-C Question61:-The following statement regarding Treacher Collins syndrome is true EXCEPT A:-malformation of the derivatives of first and second branchial arches B:-associated with micrognatia and malformed ears C:-coloboma of upper eyelid D:-cataract Correct Answer:- Option-C Question62:-The following statement regarding capillary hemangioma is true A:-presents one year after birth B:-more common in females C:-seen more in lower eyelid D:-not associated with orbital extensions and visceral hemangiomas Correct Answer:- Option-B Question63:-Majority of the basal cell carcinoma lesions are seen in the A:-lower eyelid **B:-medial canthus** C:-upper eyelid D:-lateral canthus Correct Answer:- Option-A Question64:-The following statements are true about intradermal naevus EXCEPT A:-most common type of acquired melanocytic naevus B:-seen mainly in elderly patients C:-papillomatous lesion with only little pigmentation D:-has malignant potential Correct Answer:- Option-D Question65:-The most common primary orbital malignancy in children is A:-embryonal sarcoma B:-neuroblastoma C:-myeloid sarcoma D:-Langerhans cell granulomatosis Correct Answer:- Option-A Question66:-In preseptal cellulitis, the following finding is not seen A:-normal pupillary reaction **B**:-proptosis C:-no chemosis D:-normal ocular motility Correct Answer:- Option-B Question67:-The following features are seen in adult patients with idiopathic orbital inflammatory disease EXCEPT

A:-bilateral periorbital swelling B:-radiotherapy may be considered if there is not improvement after 2 weeks of adequate steroid therapy. C:-severe prolonged inflammation can lead to a frozen orbit D:-spontaneous remission can occur in some cases Correct Answer:- Option-A Question68:-The characteristic S shaped ptosis is seen in A:-myasthenia gravis B:-injury to levator palpebrae superioris C:-acute dacryoadenitis D:-third carnial nerve palsy Correct Answer:- Option-C Question69:-The following structures pass through the superior orbital fissure EXCEPT A:-superior division of Oculomotor nerve B:-inferior division of Oculomotor nerve C:-superior Ophthalmic vein D:-inferior Ophthalmic vein Correct Answer:-Question Cancelled Question70:-Pseudo - enophthalmos is seen in A:-blow out fracture of orbital floor B:-atrophy of orbital contents following radiotherapy C:-metastatic schirrous carcinoma of orbit D:-microphthalmos Correct Answer:- Option-D Question71:-The most common tumour causing optico ciliary collaterals is A:-optic nerve sheath meningioma B:-optic nerve glioma C:-cavernous hemangioma D:-capillary hemangioma Correct Answer:- Option-A Question72:-The following statements are true about thyroid eye disease EXCEPT A:-smoking is a risk factor for developing thyroid eye disease B:-males are affected more than females C:-the disease is not related with the severity of thyroid dysfuction D:-radioactive iodine used in the treatment of hyperthyroidism can worsen the thyroid eye disease Correct Answer:- Option-B Question73:-The following findings are associated with neurofibromatosis type 1 EXCEPT A:-acoustic neuroma B:-meningioma C:-optic nerve glioma D:-neurofibroma Correct Answer:- Option-A Question74:-A 10 years old girl presents to an eye hospital with anterior uveitis and polyarthritis. ANA test positive, Rheumatoid factor negative. Most likely diagnosis is A:-Juvenile rheumatoid arthritis B:-Juvenile idiopathic arthritis C:-Systemic lupus erythematosus D:-Polyarteritis nodosa Correct Answer:- Option-B Question75:-A patient with giant cell arteritis can present with the following ocular findings EXCEPT A:-anterior ischemic optic neuropathy B:-central retinal artery occlusion C:-central retinal vein occlusion D:-diplopia Correct Answer:- Option-C Question76:-Marfan's syndrome patient can present with all the following EXCEPT A:-ectopia lentis **B:-retinal detachment** C:-hypermetropia D:-hypoplasia of dilator pupillae

Correct Answer:- Option-C Question77:-A patient presents with fever, parotid gland enlargement, uveitis and facial cranial nerve palsy. Most likely diagnosis is A:-Mumps B:-Heerfordt syndrome C:-Multiple sclerosis D:-Reiter syndrome Correct Answer:- Option-B Question78:-The following are diagnostic criteria for Behcet syndrome EXCEPT A:-painful oral aphthous ulceration **B**:-arthritis C:-uveitis D:-erythema nodosum Correct Answer:- Option-B Question79:-The following is TRUE in myasthenia gravis A:-positive ice pack test B:-weakness of skeletal and cardiac muscles C:-affects males more than females D:-negative edrophonium test Correct Answer:- Option-A Question80:-The following features of vortex keratopathy are true EXCEPT A:-visual acuity is not affected by the corneal epithelial deposits in the visual axis B:-due to hydroxychloroquine has no relationship to the dosage and duration of treatment. C:-keratopathy due to amiodarone is related to the dose and duration of treatment D:-the keratopathy changes due to hydroxychloroquine are not usually reversible on cessation of treatment Correct Answer:- Option-D Question81:-The following statements regarding homocystinuria are true EXCEPT A:-enzyme cystathionine synthetase is deficient. B:-intravascular thrombosis can occur during general anesthesia C:-downward dislocation of lens is seen in some patients D:-autosomal dominant inheritance Correct Answer:- Option-D Question82:-In Trisomy 21 patients, the iris lesions are termed as A:-lisch nodules **B:-brushfield spots** C:-iris nevi D:-iris mammillations Correct Answer:- Option-B Question83:-The commonest cause of blindness in India is A:-diabetic retinopathy B:-glaucoma C:-age related macular degeneration D:-cataract Correct Answer:- Option-D Question84:-The National Program for Control of Blindness was launched in India in A:-1971 B:-1976 C:-1982 D:-1990 Correct Answer:- Option-B Question85:-The chairman of the District Blindness Control Society is A:-District Medical Officer **B:-District Ophthalmic Surgeon** C:-District Collector **D:-District Programme Officer** Correct Answer:- Option-C Question86:-The following diseases are being managed under vision 2020 EXCEPT A:-cataract **B:-refractive errors**

C:-glaucoma D:-onchocerciasis Correct Answer:-Question Cancelled Question87:-At present in Kerala, the following activity is not carried out during an eye camp A:-screening for eye diseases **B:-prescriptions of medicines** C:-spectacle prescription D:-cataract surgery Correct Answer:- Option-D Question88:-After death, the donated eye should be removed within A:-two hours B:-six hours C:-twelve hours D:-twenty four hours Correct Answer:- Option-B Question89:-The main source of antigens for corneal allograft rejection is from A:-corneal epithelium`` B:-bowman's membrane C:-corneal stromal tissue D:-corneal endothelium Correct Answer:- Option-D Question90:-Donor corneoscleral button can be preserved in McCarey Kaufman medium for A:-two days **B:-four days** C:-two weeks D:-two months Correct Answer:- Option-B Question91:-In severe Proliferative Diabetic Retinopathy, panretinal laser photocoagulation is first given to which part of the retina A:-superior **B:-temporal** C:-inferior D:-nasal Correct Answer:- Option-C Question92:-Spatulated surgical needles are used in the following surgeries EXCEPT A:-corneoscleral suturing B:-scleral buckling surgery for retinal detachment C:-strabismus surgery D:-dacryocystorhinostomy Correct Answer:- Option-D Question93:-The Tooke corneal knife can be used in all the following surgeries EXCEPT A:-full thickness keratoplasty B:-trabeculectomy surgery C:-lamellar keratoplasty D:-pterygium surgery Correct Answer:- Option-A Question94:-The McPherson forceps should not be used for A:-tying 10.0 sutures B:-holding the intraocular lens during its implantation C:-holding the scleral tissue during sclerocorneal wound suturing D:-tearing the anterior capsule of the lens in cataract surgery Correct Answer:- Option-C Question95:-Compared to bupivacaine 0.5%, lignocaine 2% has A:-longer time for onset of action B:-longer duration of anaesthesia C:-longer duration of analgesia D:- none of the above Correct Answer:- Option-D Question96:-Wavelength of Nd Yag laser light is

A:-193 nm B:-488 nm C:-532 nm D:-1064 nm Correct Answer:- Option-D Question97:-The following wavelength is not used during retinal laser treatment of macular lesions A:-488 nm B:-514 nm C:-532 nm D:-577 nm Correct Answer:- Option-A Question98:-Destruction of the pathogenic microorganisms and spores from surgical instruments is termed as A:-sterilisation **B:-disinfection** C:-decontamination D:-sanitization Correct Answer:- Option-A Question99:-The National Program for Control of Blindness aims at reducing the prevalence of blindness by 2020 to A:-0.1% B:-0.3% C:-0.5% D:-1% Correct Answer:- Option-B Question100:-Khodadoust line is seen in A:-keratoconus **B:-pterygium** C:-corneal graft rejection D:-siderosis Correct Answer:- Option-C