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Reg. No.:....

D 153

Q.P. Code: [07 OPT 01]

(For the candidates admitted from 2007 onwards)

B.Sc. DEGREE EXAMINATION, DECEMBER 2010.

First Year

Part III - Optometrics

GENERAL ANATOMY

Time : Three hours

Maximum: 100 marks

Near labelled diagram must be drawn wherever necessary.

Answer ALL questions.

SECTION A — $(20 \times 1 = 20 \text{ marks})$

Choose the correct answer:

- Lesion in PONS may produce the syndrome called
 - (a) Weber's Syndrome
 - (b) Medical Medullary syndrome
 - (c) Raymond's syndrome
 - (d) Horner's syndrome.
- 2. The example for flat bone is
 - (a) Scapula
- (b) Femur
- (c) Vertebrae
- (d) Maxilla

3.	Dangerous area of scalp is	
	(a) Connective tissue	8. Thrombosis of anterior spinal artery causes
	(b) Losse Aereslartissue	- (a) Lateral medullary syndrome
	(c) Pericranium	(b) Weber's syndrome
	(d) Aponeurosis	(c) Medial medullary syndrome
4.	The nerve which supplies stylohyoid muscle is	(d) Syringomyelia
	(a) Mylohyoid nerve	
	(b) Anterior belly	9. Boxer's muscle is
	(c) Facial nerve	(a) De toja muscle
	(d) Ist cervical spinal nerve	h Diceps muscle
5.	The length of the naso lacrimal duct is	Brachialisis
	(a) 16 mm (b) 15 mm	(d) Serratus anterior muscle
	(c) 28 mm (d) 18 mm	10. Musician's nerve is
6.	Absence of sweating on face and neck is called	(a) Ulnar nerve
	(a) Anhidrosis (b) Miosis	(b) Radial nerve
	(c) Ptosis (d) Enopothermus	(c) Median nerve
7.	The example for condyloid joint is	(d) Posterior interosseous nerve
	(a) Temperomandibular joint	
	(b) Elbow joint	11. The length of the cartilaginous part of Auditory
	(c) Sternoclavicular joint	tube is
	(d) Shoulder joint	(a) 24 mm (b) 22 mm
	2 D 153	(c) 20 mm (d) 26 mm
		3 D 153

12.	Round window of tympanic cavity is otherwise called as	17. Muscles forming pelvic diaphragm is
	(a) Fenestra cochleae (b) Fenestra vestibuli (c) Base of stapes (d) Vault of the stapes	(a) Levator Ani (b) Gluteus maximus
13.	Coverings of testis includes following except (a) Cremarteric fascia (b) Tunica vaginalis (c) Tunica albuginae (d) Tunica vasculosa	(c) Transverse abdominis (d) External oblique 18. The nerve supply to the sartorius muscle is (a) Obturator nerve
14.	The Longest cutaneous nerve of the body is (a) Radial nerve (b) Saphenous nerve (c) Femoral nerve (d) Ulnar nerve The diaphragm separates the base of left lung from the following except (a) Pancreas (b) Stomach (c) Liver (let lobe) (d) Spleens	(b) Demoral nerve (c) Inferior gluteal nerve (d) Sciatic nerve 19. The longest cutaneous nerve of the body is (a) Femoral nerve (b) Obturator nerve (c) Saphanous nerve (d) Sciatic nerve
16.	(c) Liver (let lobe) (d) Spleen Branches of Arch of Aorta includes following except (a) Brachiocephalic (b) Rt subclavian (c) Left common carotid (d) Left sub clavicular	20. The most commonly injured nerve of lower limb is (a) Tibial nerve (b) Lateral plantar nerve (c) Medial plantar nerve (d) Common peroneal nerve
	4 D 153	5 D 153

SECTION B — $(5 \times 6 = 30 \text{ marks})$

Short notes.

21. (a) Functions of the skin.

Or

- (b) Classification of synovial joints.
- 22. (a) Parts of the Limbic system.

Or

- (b) Dislocation of shoulder joint.
- 23. (a) Nerves related to Psoas major.

Or

- (b) Branches of abdominal aorta.
- 24. (a) Branches of Internal iliac Artesy.

Or

- (b) Saphaneous nerve.
- 25. (a) Deltoid Ligar ent of Ankle joint.

Or

(b) Structures that cross Pelvic Brim.

SECTION C — $(5 \times 10 = 50 \text{ marks})$

Long questions.

26. (a) Write about cells, fibres and functions or connective tissue.

Or

- (b) Write briefly about carpal tunnel syndrome and Dursyren's contracture.
- 27. (a) Contents of superior mediastinum and middle mediastinum.

Or

- (b) Write the differences between jejunum and ileum.
- (a) Write the parts of Uterus, supports of uterus and causes of uterine prolapse.

Or

- (b) Write briefly about structures in the roof of the femoral triangle and contents of femoral triangle.
- (a) Branches of Internal and external carotid artery.

Or

(b) Branches of Glosso pharyngeal nerve and branches of ragus nerve.

7

 (a) Structures that forming boundaries of popliteal fossa and structures contained in popliteal fossa.

Or

(b) Write briefly about constituent fibres of superior cerebellar peduncle and inferior cerebellar peduncle.

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Q.P. Code: [07 OPT 02]

(For the candidates admitted from 2007 onwards)
B.Sc. DEGREE EXAMINATION, DECEMBER 2010.

First Year

Part III — Optometrics GENERAL PHYSIOLOGY

Time : Three hours

Maximum: 100 marks

Answer ALL questions.

SECTION A — $(20 \times 1 = 20 \text{ marks})$

Select the most appropriate answers from the answers given.

- A condition with decreased number of platelets in blood is known as
 - (a) thrombxytspenia
 - (b) anaemia
 - (c) heuspenia
 - (d) leucocytosis.
- 2. The specific Gravity of whole blood is
 - (a) 1.055 1.060
- (b) 1.028 1.032
- (c) 1.60 1.065
- (d) 1.032 1.036.

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3.	The rate of Lymph flow is	8. The normal glomerulas filtration rate is
	(a) 0.5 - 1 ml / minute	(a) 110 ml/min (b) 120 ml/min
	(b) 1 to 1.5 ml / minute	(c) 210 ml/min (d) 130 ml/min.
	(c) 1.5 - 2 ml / minute	9. Normal refractory function of the eye is
	(d) 2 to 2.5 ml / minute.	(a) emetropia (b) ametropia
4.	Oxygen consumed by heart at rest is	(c) myopia (d) hypermetropia.
	(a) 10 ml / minute	10. A condition of hypothyroidism appearing in adults
	(b) 20 ml / minute	(a) cretihism (b) goitre
	(c) 40 ml / minute	myxoedema (d) thyrotoxicosis.
	(d) 30 ml / minute.	1. AIDS was first detected in
5.	Vitamin 'C' deficiency causes	(a) USA (b) U.K.
	(a) xeropthalmia (b) pellagra	(c) India (d) Australia.
	(c) beriberi (d) scurvy.	12. The pH of raginal secretion is
6.	The length of the large intestine is	(a) 3.8 (b) 4.8
	(a) 1.2 meters (b) 2.5 necres	(e) 5.8 (d) ,6.8.
	(c) 1.5 metres 2.0 metres.	13. Normal Plasma ACTH level is
7.	Temporary cessation of breathing is known as	(a) 0.1 m. unit / 100 ml
		(b) 0.3 m. unit / 100 ml
	(a) tachyproea (b) aproea	(c) 0.5 m. unit / 100 ml
	(c) bradyproea (d) dysproea.	(d) 0.4 m. unit / 100 ml.
	2 D 154	3 D 154

14.	BB				19.	9. pH value of urine normally varies from					
	of T	etary except					(a)	4.8 - 7.5	(b)	4.5 - 5.5	
9	(a)	Trousseau's s	ign				(c)	5.5 - 6.5	(d)	6.5 - 7.5.	
	(b)	Chrostek's sig	gn		. 1		25000				
	(c)	Erb's sign				20.		amount of a of deep expira		ehind in the lur known as	ng at the
	(d)	Babinski's sig	n.		,			minimal vol			
15.	The	length of the tr	rachea	is			(b)	residual col	ume		
	(a)	12 cm	(b)	14 cm			(c)	supplen ent	volume		
	(c)	16 cm	(d)	22 cm.			(d)	conpleteme	ntal volu	ume.	
16.	Oxy	gen capacity of	1 gm o	f Hb is		2	10	SECTION B	— (5 ×	6 = 30 marks)	
	(a)	1.34 ml 02	(b)	of Hb is 1.24 ml 02 2.34 ml 02.		21.	(a)	Chemical co	mpositio	on of the muscle.	
	(c)	2.14 ml 02	(d)	2.34 ml 02.	:00				0	r	
17.	Nor	mal WBC count	is		7/10		(b)	Functions of	Leucocy	ytes.	
	(a)	3,000 - 5,000 /	cmm	41/9		22.	(a)	Function of	Lympha	tic system.	
	(b)	5,000 - 7,000 /	cmm	*1/0					Or		
	(c)	5,000 - 8,000 /	cmm	, 5			(b)	Functions of			
	(d)	4,000 - 6,000 /	cmm	N	1		(0)	r unctions of	Diffe.		
18.	nH v	alue of Lacri n	il core	atin is		23.	(a)	Functions of	fphosph	olipids.	
10.	700	Personal Inc.	23		1				Or		
	(a)	7.25	(b)	7.35			(b)	Functions of			
	(c)	7.45	(d)	7.55.		M.	(0)	1 differentia Of	Dulled.		

24. (a) Deep Reflexes.

Or

- (b) Functions of thalamus.
- 25. (a) Functions of Placenta.

Or

(b) Functions of kidney.

SECTION C — $(5 \times 10 = 50 \text{ marks})$

Long answers.

26. (a) Functions of blood.

Or

- (b) Functions of spleen.
- 27. (a) Explain about basal metabolic rate.

Or

- (b) Write briefly about aurite renel failure.
- 28. (a) Write about the functions of skin.

(b) Write in detail about mid brain.

 (a) Write briefly about formation, composition and absorption of C.S.F.

Or

- (b) Signs and symptoms of hyperthyroidism.
- 30. (a) Write briefly about synthesis and actions of adrenaline.

Or

(b) Function's of oestrogens.

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Q.P. Code: [07 OPT 03]

(For the candidates admitted from 2007 onwards)

B.Sc. DEGREE EXAMINATION, DECEMBER 2010.

First Year

Park III — Optometrics

DICS AND REFRACTION

Time. Three hours

Maximum: 100 marks

Answer ALL questions.

SECTION A — $(20 \times 1 = 20 \text{ marks})$

Multiple choice question with no choice.

- 1. Crystalline lens absorbs light rays shorter than
 - (a) 295 nm

(b) 350 nm

c) 390 nm

- (d) 490 nm
- The critical angle refers to the angle of incidence in denser medium corresponding to which angle of refraction in the rarer medium is
 - (a) Less than 90°
 - (b) 90°
 - (c) More than 90°
 - (d) Equal to angle of incidence

3.	In the media of the eye, highest refractive index is of the	7. An aphake weaving aphakic glasses will most commonly notice
	(a) Cornea (b) Aqueous humor	(a) Pincushion distortion
	(c) Lens (d) Vitrous humor	(b) Spherical aserration
4.	The visual axis of the eye meet the retina at a point which	(c) Barrel distortion
	(a) Coincides with the forea centralis	(d) Chromatic a erration
	(b) In nasal to forea centralis	8. Because of circle of least diffusion the distant vision is comparatively good in
	(c) Is nasal to optic disc	(a) Simple myopic astigmatism
	(d) Is temporal to forea centralis	(b) Compound myopic astigmatism
5.	(d) Is temporal to forea centralis The most common types if refractive error is	(c) Mixed astigmatism
	(a) Hypermetropia (b) Myopia	(d) Compound hypermetropic astigmatism
	(c) Astigmatism (d) None of the Above	 Causes of premature presbyopia included all of the following except
6.	One millimeter increase in the radius of curvature of corner leads to hypermetropia of	(a) General debility
	(a) 3D B 4D	(b) Primary open angle glaucoma
	(c) 5D (d) 6D	(c) Uncorrected myopia
	2 D 155	(d) Premature sclerosis of the lens
		3 D 155

10.	Bilateral paralysis of accommodation can occur in patient with	14.	Excessive accommodation causes
	(a) Diphtheria (b) TB		(a) Hyper metropia
	(c) Malaria (d) Mumps		(b) Myopia
11.	The most long acting cycloplegir drug is	1	(c) Pseudomyopia
	(a) Atropine (b) Tropicamide		(d) Pseudo hypermetropia
	(c) Cyclopentolate (d) Homatropine	15.	Connect lens it best used in
12.	All of the flowing are frox about autorefractometry except		(a) High myopia
	(a) Quick procedure	2	(b) Irregular astigmatism
	(b) Gives information about spherical and cylindrical error	46in	(c) Aphakia (d) Regular astigmatism
	(c) Measures inter papillary distance	16.	Hard contact lenses are made of
	(d) Subjective verifications of refraction is not required		(a) HMMA (b) PMMA
13.	The principle of the stenopaeic So'l test is based on)	(c) Silicone (d) Glass
	(a) Astigmatic fan	17.	A difference in the size of two retinal image which can be well talented is
	(b) The circle of least diffusion		(a) 2% (b) 3%
	(c) Pin hole phenomenon		
	(d) Strum's conoid		(c) 5% (d) 10%
	4 D 155		5 D 155

	Sturm's conoid refers to configurations of the rays refracted through									
(;	a)	Concave sp	herical	surfa	e					
(1	b)	Convex sph	erical							
(6	e)	Tonic surfa	ce							
((l)	Irregular su	ırface							
		an aphakic k of cornea is			focal poin	nt from	the			
(8	1)	23 nm		(b)	$25~\mathrm{nm}$					
(0	:)	31 nm		(d)	21 nm					
Α	t l	oirth eye is u	sually				i.			
(8	1)	Hypermetro	pic	(b)	Myopic	1.10				
(0	:)	Emmetropio	2	(d)	Aniseiko	ic				
		SECTION	B — (5	× 6 =	30 marks)					
S	ho	rt notes :		N						
(8	1)	Sturm's con	oid.	r						
(h)	Chromatic a	berrati	ion.						

22. (a) Classification of Regular astigmatism.

Or

- (b) Refraction of aphakic.
- 23. (a) Mechanism of accommodation.

Or

- (b) Cycloplegic drugs.
- 24. (a) Anisometro, ia

Or

(b) Ansokenia.

25 (a) Jackson's crossed cylinder.

Or

(b) Investigation of heterophoria.

SECTION C —
$$(5 \times 10 = 50 \text{ marks})$$

Essay:

 (a) Define hyper metropia, clinical types, signs and symptoms and treatment of hyper metropia.

Or

(b) Write in detail about low vision aids.

 (a) Write in detail about objective and subjective verifications of refraction.

Or

- (b) Various physiological optical defects in eye.
- 28. (a) Various pathological optical defects in eye.

Or

- (b) What is the need of accommodations and various anomalies of accommodation?
- 29. (a) What are the special types of spectacles?

Or

- (b) Various optical applications of contact lens advantages and disadvantages of contact lens.
- 30. (a) Define astigmatism clinical type and sign and symptoms of astigmatism.

Or

(b) Write in detail about aphabia.

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Q.P. Code: [07 OPT 07]

(For the candidates admitted from 2007 onwards)

B.Sc. DEGREE EXAMINATION, DECEMBER 2010.

Second Year

Part III - Optometrics

PHARMACOLOGY

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

SECTION A — $(20 \times 1 = 20 \text{ marks})$

Choose the correct answer:

- Jdyguideir Principles of clinical drug evaluation that apply medicine is
 - clinical pharmacology
 - drug
 - pharmacy
 - pharmaco dynamics. (d)
- The drug example for alkaloid is
 - insulin

- morphine
- penicillin
- mentol.

- When the drug is introduced in the subarachnoid 3. space it is called as
 - intravenous
- intraasticular
- intrathecal
- intraasterial.
- following administration includes Parenteral except
 - subcura reous
- intramusuilas
- nt avenous
- sublingual.
- aqueous preparation containing insoluble material for external application is called
 - lotion

- ointment
- emulsion
- solution.
- Anti hypertensive drug includes following except
 - methyldipa
- basbityrate
- reserpine
- propranolol.
- It is a congenital deformity in which long bones are rudimentary
 - iatrogenic disease
 - auts immune reaction
 - phocomelia
 - hypersensitivity.

8.	Previnfe	vention of dise	ase as al agen	well as preve t is known as	ntion of	
	(a)	chemoprophyl	axis			
	(b)	chemotherapy				
	(c)	pharmacother	apy			
	(d)	pharmacokine	tics.		(C)	
9.		gs blocking ne lly is	rve co	nduction when	applied	
	(a)	general anaes	thesia			1
	(b)	local anaesthe	sia			10
	(0)	spinal anaestl	netics		*	0
	(d)	regional anae	sthetics	3,	(N)	
10.	Ant	idstes for narco	tics		41/2	
	(a)	nalorphine	(b) nestigmine		
	(c)	vitamin K	(d) analeptics.		
11.	Atro	opine is a drug (of	MM.		
	(a)	miotics	(5)	anti glaucoma	agent	1
	(c)	mydriatics	(d)	alpha blocker.		
12.		nsfer of a drug he blood is knov		ne site of admin	istration	
	(a)	absorption	(b)	solubility		- 35
	(c)	hydrolysis	(d)	dilution.	Salar arang	
			3		D 164	

- Drugs which improve quality and quantity of RBC is
 - (a) haematinics (b) plasma substitutes
 - (c) emetics (d) antiemetics.
- 14. Drugs used to increase the secretion of urine
 - a) emetics (b) diveretics
 - (c) anorexiants (d) detergents.
- 15. Nystatin is example for
 - (a) antiviral
 - (b) anti emetics
 - (e) anti fungal antibiotics
 - (d) antimalarial.
- 16. Chloroquine is example for
 - (a) antihelmintics (b) emetics
 - (c) antibiotics (d) antimalarial.
- 17. Drugs which promote protein anabolism is
 - (a) anabolic (b) detergents
 - (c) antibiotics (d) antiviral agents.

18.	Drugs	used	to	suppress	immune	reaction	are
	called a	18					arc

- (a) Immuno suppressive agents
- (b) Immune agents
- (c) Antiseptics
- (d) Disinfectants.

19. The measure of the tendency of the drug to combine with the receptors is

- (a) agonist
- (b) affinity
- (c) anta gonist
- d) efficacy.

20. Agents which promotes skin pigmentation is

- (a) demelanising agents
- (b) cleansing agents
- (c) melanising agents
- (d) debridement agents.

SECTION B — $(5 \times 6 = 30 \text{ masks})$

Short notes

(a) Sources of drugs.

Or

(b) Uses of prodrugs

22. (a) Dangers of drug therapy.

Or

- (b) Routes of excretion of drgus.
- 23. (a) Classification of anti rhumatic drugs.

Or

roxicity of antidepressants.

Drugs used in urinary tract infection.

Or

- (b) Uses α contra indication of purgatives.
- 25. (a) Uses of cortisone.

Or

(b) Metabolic functions of Vitamin C.

SECTION C - (5 × 10 = 50 marks)

Long questions.

(a) Factors influencing drug metabolism.

Or

b) Classification of analogesics.

Factors determining drug action. 27.

Or

- Modes of administration of drug.
- Anti glaucoma agents. 28.

- (a) 29.

- (b)
- 30. (a)

Effects of digitalis in congestive cardial silver.

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Q.P. Code: [07 OPT 06]

(For the candidates admitted from 2007 onwards)

B.Sc. DEGREE EXAMINATION, DECEMBER 2010.

Second Year

Part III - Optometrics

NUTRITION

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

SECTION A — $(20 \times 1 = 20 \text{ marks})$

Choose the correct answers:

- Caloric requirement for a pregnant women per day is
 - (a) 2300 KCal

2400 KCal

(c) 2700 KCal

d) 2800 KCal.

- 2. Daily requirement of Vitamin A for Infant is
 - (a) 300 400 IV
- (b) 300 600 IV
- (c) 400 600 IV
- (d) 750 IV.

- 3. Protein content of an egg is
 - (a) 4 gm

(b) 6 gm

(c) 8 gm

- (d) 10 gm.
- Caloric requirement for the sedentary male worker is
 - (a) 2400 KC d day
- (b) 2300 KCal/day
- (c) 2000 HCal/day
- (d) 2700 KCal/day.
- 5. Dany requirement of vitamin 'C' for an adult is
 - (a) 30 mg

(b) 40 mg

(c) 50 mg

- (d) 60 mg.
- Daily requirement of calcium for the following women is
 - (a) 0.5 gm

(b) 0.6 gm

(c) 0.8 gm

- (d) 1 gm.
- 7. Iron requirement for the pregnant women is
 - (a) 40 mg/day
- (b) 20 mg/day
- (c) 30 mg/day
- (d) 50 mg/day.
- 8. The milk production by the lactating mother is
 - (a) 650 ml/day
- (b) 750 ml/day
- (c) 850 ml/day
- (d) 950 ml/day.

9.	The	concentration of	prote	in in colostrum	15.	The	daily requiremen	t of i	ron for the old people i
	(a)	5.5%	(b)	6.5%		(a)	20 mg	(b)	30 mg
	(c)	7.5%	(d)	8.5%.		(c)	40 mg	(d)	50 mg.
10.	25353		rograi	nme was started in the	16.	Dail	y requirement of	potas	ssium is
	year (a)	1963	(b)	1973		(a)	1-2 gm	(b)	2-4 gm
	(c)	1983	(d)		Ä	(0)	3-4 gm	(d)	2-3 gm.
11.	Sper	cific gravity of sa	liva is		107	Incr	eased calcium lev	el is	called as
	(a)	1.004 - 1.008	(b)	1.002 to 1.004	98,,	(a)	hypokalaemia	(b)	hypocalcaemia
	(c)	1.004 - 1.006	(d)	1.006 to 1.010.		(c)	hyperkalaemia	(d)	hypercalcaemia
12.	16 o	unce is equal to		1.002 to 1.004 1.006 to 1.010.	18.	Dail	y requirement of	pyric	loxine is
	(a)	1 dram	(b)	1 pint		(a)	2 mg	(b)	4 mg
	(c)	1 gallon	(d)	1 pound.		(c)	6 mg	(d)	8 mg.
13.		ional Goitre Cor ne year	itrol I	Pregramme was started	19.	Che	mical name of Vi	tamir	B ₁ (Thiamine) is
	(a)	1942	(b)	1952		(a)	aneurine .	(b)	flavone
	(c)	1962	(d)	1972.		(c)	calciferol	(d)	tocopherol.
14.	The	amount of sug	ar in	cow's milk compares to	20	Vita	min D is chemica	ally k	nown as
		ian milk is				(a)	retinol	(b)	alinine
	(a)	low	(b)	high		(e)	calciferol	(d)	pyridoxine.
	(c)	equal	(d)	none of the above.		11.79.7377			Entrepolity Style (Curt

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SECTION B — $(5 \times 6 = 30 \text{ marks})$

Short notes on:

21. Classification of protein. (a)

Or

- Functions and sources of protein.
- Classification of fat. (a)

Or

- Functions of fat.
- ww.studyguidein Functions and sources of vitamin A. (a)

Or

- Sources of Vitamin B₁.
- 24. Curative effect of B₆. (a)

Or

- Types of Diet.
- 25: Factors affecting calcium absorption. (a)

Or

Functions of water.

SECTION C — $(5 \times 10 = 50 \text{ marks})$

Long questions:

26. Classification of carbohydrates.

- Functions and sources of carbohydrates.
- Supplementary feeding programme.

Or

- Methods of cooking.
- Cooking Tip Write in detail.

Or

- Write about functions of Saliva and write briefly about functions of stomach.
- 29: Write briefly about preparation of Egg. (a)

Or

Write briefly about weaning.

5

30. (a) Write about Sources, Functions, Daily requirement and Deficiency diseases of Vitamin B₁₂.

Or

(b) Write about Sources, Functions, Daily requirement and Deficiency diseases of Vitamin C.

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Reg. No.:....

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Q.P. Code: [07 OPT 04]

(For the candidates admitted from 2007 onwards)

B.Sc. DEGREE EXAMINATION, DECEMBER 2010.

Second Year

Part III - Optometrics

OCULAR ANATOMY

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

SECTION A - $(20 \times 1 = 20 \text{ marks})$

Choose the correct answer:

- 1. The antero posterior diameter of the eyeball is
 - (a) 23 mm

(b) 24 mm

(c) 23.5 mm

(d) 24.5 mm

- 2. The parts of the sclera includes following except
 - (a) Limbus

- (b) Episclera
- (c) Sclera proper
- (d) Lamina fusla

- 3. Choroid is
 - a) vascular layer
- (b) muscular layer
- (c) membranous layer(d) crystalline layer
- 4. The outer vessel layer of choroid is
 - (a) sattler

(b) chorio-capillaries

(c) haller

- (d) basal-lamina
- 5. The total number of rods are about
 - 12. 5 million
- (b) 11.5 million
- (c) 12 million
- (d) 10.5 million
- 6. The nerve supply to the conjunctiva is by
 - (a) 2nd cranial
- b) 3rd cranial
- (c) 5th cranial
- (d) 4th cranial
- 7. The length of the optic Foramina is
 - (a) 4-10 mm
- (b) 6-8 mm
- (c) 8-10 mm
- (d) 10-12 mm
- The nerve supply of the extraocular muscle is mainly by
 - (a) 5th cranial
- (b) 7th cranial
- (c) 3rd cranial
- (d) 9th cranial

					14.	Volu	ime of the vitreous	cavity	ris
9.	Has	sal-Henele's bodi		nt in		(a)	3.5 ml	(b)	4.5 ml
	(a)	Endothelial lay	er			(c)	5.5 ml	(d)	6 ml
	(b)	Descemet's mer	nbrane						74
	(c)	Substantia port	ia		15.	The	conjuctive it he c	ornea	
	(d)	Bowman's layer				(a)	priperal	(b)	bulbar
10	TUL.	thickness of the	Daniah!a	wombrana ia		(c)	fornix	(d)	limbal
10.				memorane is	6.	The	blood supply of the	e eye i	s by
	(a)	3 μ	(b)	5 μ	76/12	(a)	retinal artery		opthalmic artery
	(c)	6 μ	(d)	7 μ		(c)	lacrimal artery	(d)	ciliary artery
11.	The	circular diamete	r of the	cornea is	ideim			.50.50	
	(a)	10.5 mm	(b)	11.5 mm	17.	The	cornea consists of		
		12.5 mm	(d)	13.5 00 m		(a)	5 layers	(p)	4 layers
	(c)	12.5 mm	(0)	13.0(113413		(c)	6 layers	(d)	3 layers
12.	Hor	izontal diameter	of the e	ball is	18.	Sele	era has		
	(a)	23. 5 mm	(b)	22.5 mm	101	(a)	3 parts	(b)	2 parts
	(c)	24. 5 mm	(d)	25.5 mm		12570	5 parts	(d)	6 parts
13.	Mid	ldla vaenular c	nat of	eyeball consists of		(c)	5 parts	(A)	O par es
1.0.		owing except	040 01	Cycoan consists of	19.	The	volume of the orb	it is al	pout
	(a)	choroid	(b)	ciliary body		(a)	20 ml	(b)	40 ml
	(c)	iris	(d)	retina		(c)	50 ml	(d)	30 ml
		11.10	(100)					4:	D

- Formation of aqueous humour is by
 - Ciliary muscle (a)
- Ciliary process

(c) Choroid

Retina

SECTION B — $(5 \times 6 = 30 \text{ marks})$

Short Notes.

Parts of conjuctiva. (a)

Or

- ann studyguideint Actions of extraocular muscles.
- 22. (a) The contents of the orbit.

- Crystalline lens.
- 23. Structure of the Iris.

- Glands of the Eyelid.
- 24. Limbus.
 - (b) Functions of Diea
- (a) The origin of eye.

Or

(b) Structure of Sclera. SECTION C — $(5 \times 10 = 50 \text{ marks})$

Long questions.

Write briefly about choroid.

Or

- rive about ciliary body.
- Write in detail about chambers of the eye.

- Regions of the retina.
- Describe about the muscles of the eyelid.

Or

- Describe about the extra ocular muscles.
- 29. Write briefly about conjuctiva structur blood supply and nerve supply.

Or

- Write in about blood supply of the eye.
- 30. Describe in detail about the cornea.

Or

Write briefly about nerves of the eye.

6

		Reg. No. :
D	160 ·	Q.P. Code: [07 OPT 10]
	(For the candida	tes admitted from 2007 onwards)
В	Sc. DEGREE EX	KAMINATION, DECEMBER 2010.
		Third Year
	Par	t III — Optometrics
	SYSTEM	MIC OPTHALMOLOGY
Tim	e : Three hours	Maximum: 100 marks
	SECTION	I A — (10 × 2 = 20 marks)
	Ans	wer ALL questions.
1.		is seen in —————————————————————————————————
2.	Hyphaema, su due to deficienc	abconjuctival haemorrhage can be
3.	Oral form of Vi	tamin Ass
4.	Deficiency of corneal anaesth	

Int	erstitial kerati	s is seen i	n ————
An	gular conjuncti	vitis is ca	used by ———
Pse	eudo membran	ne conjun	ctivitis is cause
-	CO//		
Ну	erglycaemia	can can	1se ————
	nge in refractiv		
,			
Flo	me chaned h	aemorrha	ge are common
Fla	me shaped h		ge are common
-	1	retinopath	y.
Che		retinopath	ny.
Che	erry red spot is	retinopath seen in — (b)	ny.
Che (a) (c)	erry red spot is CRAO Diabetes	seen in — (b) (d)	CSR Chorioretinitis
Che (a) (c) In	erry red spot is CRAO Diabetes	retinopath seen in — (b) (d) is abnor	CSR Chorioretinitis
Che (a) (c) In	erry red spot is CRAO Diabetes Gout, there	retinopath seen in — (b) (d) is abnor	CSR Chorioretinitis

- Steven Johnson syndrome can be caused by Sulpha drug Herpes simplex Both above None of above (d) (c) Peripheral marginal keratitis seen in Fungal infection (b) Acanthoamoeba Rosacia Atopic dermatitis (d) Steven Johnson syndrome leads to Fungal infection (a) Cicatricial conjunctivitis Malignancy None of above (d) Bitemporal hemianopia is seen in lesion of Optic Tract Optic chiasma Optic radiation Papilloedema is been in tracramil Tumor of all, except Mid brain Cerebellum Occipital lobe (c) Medulla oblongata Disc edema with macular exudates is Optic neuritis Neuro retinitis (a) Chorioretinites (c) Retrobulbar neuritis
- 20. Inferior homonymous quardrantopia is seen in
 - (a) Temporal lobe lesion
 - (b) Parietal lobe lesion
 - (c) Frontal lobe
 - Calcarine fissure

SECTION B -- $(5 \times 6 = 30 \text{ marks})$

Answer ALL questions.

21. (a) Discuss a role of Vitamin A in ephysiology.

Or

- (b) Discuss on various ocular manifretation Vitamin deficiencies
- (a) Write a short note on causes clinical featur and treatment of acute conjunctivitis.

Or

- (b) Write a short note on endophthalmit prophylaxis and management.
- (a) Discuss on classification and clinical feature of uveitis.

Or

(b) Differentiate between granulomatous an non-granulomatous uveitis. (a) Write a short note on Steven Johnson syndrome.

Or

- (b) Write a short note on various autoimmune disorders affecting the eye.
- (a) Write a note on Foster Kennedy syndrome.

Or

(b) Draw a diagram of visual pathway and visual field defects.

SECTION C — $(5 \times 10 = 50 \text{ marks})$

Answer ALL questions.

(a) Describe WHO classification and prevention of xerophthalmia.

Or

- (b) Discuss causes, clinical leatures and management of Vitamin A definiency.
- (a) Discuss causes of not infective conjuctivities and their clinical features.
 - (b) Diccuss clinical feature, complication and management of Toxoplasmosis chorioretinitis.

 (a) Describe the characteristic and manager of Proliferative diabetic Retinopathy.

Or

- (b) Discuss classification and complication Proliferative diabetic retinopathy.
- 29. (a) Discuss Ocular manifestation of Tubercul and management.

Or

- (b) Discuss Ocular manifestation of AIDS.
- (a) Discuss clinical features, classification treatment of Optic Neuritis.

Or

(b) Describe Pupillary pathway and describe abnormal pupillary reactions.

			Reg.	No.:
D 1	62		Q.I	P. Code : [07 OPT 12]
(For th	e candidates ad	mitted	l from 2007 onwards)
В.	Sc. DI	EGREE EXAMI	NATIO	ON, DECEMBER 2010.
		Th	ird Ye	ar
		Part III -	— Opt	omerics
	-	CONTA	CT LE	ENSES
Tim	e : Th	ree hours		Maximum: 100 marks
		SECTION A -	(20 ×	1 = 20 marks)
		Answer A	LL qu	nestions.
1.	RGF	lens materials	includ	le de
	(a)	PMMA		CHUICH
	(b)	HEMA		W. 5
	(c)	Silicone Acryla	ite	M
	(d)	None of above.		Maximum: 100 marks 1 = 20 marks) nestions.
2.	Hyd	rogel malerials	includ	e
	(a)	PMMA	(b)	Silicone Aerylate
	(c)	Styrene	(d)	MMA – PVD.

3.		the water of hyd gen permeability		n of a lens increases its
	(a)	increases	(b)	decreases
	(c)	remains same	(d)	none of above.
	190000	417.1		to common

- 4. the lens thickness permeability
 - increases none of above. icinains same
 - Central dark area with peripheral bright green fluorescein staining indicates

decreases

- steep feit flat fit none of above. ideas fit
- Central bright green fluorescein staining with 6. intermediate dark zone in lens fitting indicate
 - flat fit steep fit
 - none of above. ideal fit (d)
- Over all domain of a soft contact lens is 7.
 - <HVID >HVID (a)
 - None of above. = HVID
- Excessive movement of lens over cornea indicates
 - steep fit flat fit (a)
 - none of above. ideas fit (d) (c)

9.	Ar	a example of ext	anded.	wear lens with high water	14.	Тур	e A cosmetic con	ntact	lens is used for	
	COI	ntent is	enueu	wear lens with high water		(a)	Occlusion ther	ару		
	(a)	CSI lens				(b)	Cosmetic enha	ncen	nent	
	(b)	Softcon lens				(c)	Albinism			
	(c)	Hydro curve	lens			(d)	Polycoria.			
	(d)	Perma lens.			15.	Clea	A STATE OF THE PARTY OF THE PAR		brown tint is	seen in
10.	Per ent	rcentage of wate tered wear lens	er cont	ent in low water content		(a)	A	(b)	В	
	(a)	38 - 45%	(b)	45 — 60%	ight	(c)	C	(d)	D.	
	(c)	> 60%	(d)	None of above.	Ideino	Ultr	athin or membra	ane le	enses are indicat	ted in
11.	A tech	contact lens is	s fitte	d with 3 point touch		(a) (b)	Epitheilal defe	et		
	(a)	Aphakia	(b)	Pseudophakia		(c)	Bullous kerato	pathy	,	
	(c)	Prebyopia	(d)	Keratoconas		(d)	All the above.			
2.	Lar	ge lenticular len	s can b	e tried in	17.	End	othelial pleomor	phisr	n and polymega	athism is
	(a)	Aphakia	(b)	Preudophakia			mostly with use			
	(c)	Presbyopia	(d)	Keratoconus.		(a)	PMMA lens	(b)	RGP lens	*
3.	An e	example of a the	raputio	contact lens is		(c)	Soft lens	(d)	All the above.	
	(a)	CSI lens	**************************************		18.		of homemade sation with	aline	causes keratiti	c due to
	(b)	Perma lens				(a)	Aeanthamoeba	(b)	Pseudomonas	
	(c)	Hydro curve le	ns			(c)	Staphylococeus	(d)	Streptococcus.	
	(d)	Plano T lens.						A		D 100

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3

seen in

10	D I	1		
19.	Polyviny	a	conol	is a

- (a) waiting agent
- (b) cleaning agent
- (c) enzymatic cleaner
- (d) soaking solution.

Benzalkonium chloride is a

- (a) Weeting agent (b) Cleaning agent
- (c) Preservative (d) Soaking solution.

SECTION B — $(5 \times 6 = 30 \text{ marks})$

Answer ALL questions.

21. (a) List the properties of an ideal contact lens material.

Or

- (b) Write short notes on RGr lens materials.
- (a) Explain fluorescein patterns in contact lens fitting and clinical significance.

Or

(b) Write short notes on hard lens problems.

(a) Write short notes on extended wear hydrogel soft lens.

Or

- (b) Write short notes on extended wear rigid lens.
- 24. (a) Hew can contact lenses he used for drug delivery?

Or

- b) What are bandage contact lenses and Where are they used?
- (a) Write briefly on conjunctival complications of contact lens use.

Or

(b) What is enzyme cleaning of contact lenses?

SECTION C — $(5 \times 10 = 50 \text{ marks})$

Answer ALL questions.

26. (a) Explain in detail contact lens materials

Or

(b) What are the manufacturing techniques involved in contact lens preparation? (a) Explain fitting procedure of rigid contact lens.

Or

- (b) Explain fitting procedure of soft contact lens.
- 28. (a) Write briefly on extended wear lenses.

Or

- (b) Write about contact lens fitting in aslig matism and aphelia.
- 29. (a) What are the indications for use of therapeutic contact lenses?

Or

- (b) Write briefly on indications, inting techniques and complications of cosmetic contact lenses.
- 30. (a) What are the complication of contact lens wear?
 - (b) Write briefly on care of contact lenses.

			2.
		Reg. No. :	3.
D 161	a a	Q.P. Code : [07 OPT 11]	
(For	the candidates adn	nitted from 2007 onwards)	4.
B.Sc.	DEGREE EXAMIN	ATION, DECEMBER 2010.	4.
	Thir	d Year	
	Part III —	Optometrics	5.
OPTI	CAL INSTRUCTIO	NS IN OPHTHALMOLOGY	
Time:	Three hours	Maximum: 100 marks	:.0
	SECTION A —	(20 × 1 = 20 marks)	8//
	Answer Al	Maximum: 100 marks (20 × 1 = 20 marks) LL questions. Imp are all except	ř.
1 11	lumination in slit la	amp are all except	0,:
(8	i) Direct focal	*(1/0.)	
(1) Indirect	, 5	
(0	e) Retro illuminat	ion	
(6	d) Indirect infocal		7.

- Illumination in slit lamp are all except
 - Direct focal (a)
 - Indirect (b)
 - Retro illumination (c)
 - Indirect infocal
- 90 D is used for \underline{g}
 - Posterior Segment Anterior segment (b)
 - IOP (c)

Duct examination

- Structures seen with indirect ophthalmoscope are 3. all expect
 - Disc

- Retinal vessels
- Iris vessesIs
- ora serrata
- Yag laser is used for
 - PCO (a)

- Cataract
- Trauma ic catract (d) Paediatric catract
- 5. Image in indirect ophthalmoscope is
 - Real, Inverted and magnified
 - Virtual inverted and magnified
 - Real, erect and magnified
 - Real ,inverted and minified
- Direct Ophthalmoscope can used in the following conditions except
 - Glaucoma
 - Hypertensive retinopathy
 - Age related macular degeneration (c)
 - Conjunictival naevus
- Indirect ophthalmoscope with +20 D procedure
 - 1 × magnification (b) 2 × magnification
 - 3 × magnification (d) 4 × magnification (c)

- 8. Distant direct ophthanmoscope is used for all except
 - To see opacity in refractive media
 - (b) To diagnose diabetic retinopathy
 - To detect retinal microaneurism (c)
 - None of the above
- 9: Specular microscopy is used to study
 - Corneal epithelial cells (a)
 - Corneal endothelial cells (b)
 - Conjuntival epithelial cells
 - Retinal epithelial cells (d)
- OCT is used to study 10.
 - Macula

- Both of the above (c)
- OCT stands for
 - Optical circuar tomography
 - Optical coherence topograpy (b)
 - Optical coherence tomography (c)
 - (d) Optical coherence test

- ARMD stands for —— 12.
- Instrument used to measure power of spectacle is known as
 - Lensometer
- Focimeter
- Vertometer
- All of the above
- Automate i lensometer all are true except
 - (a) Can be used in ophtahalmic practice

Microcomputer are inbuilt to mathematically the data associated with laws measurement

- It requires to be kept at specific temperature condition
- Example is humphry lens analyzer
- studyouidein Operating microscope - Basic system are all except
 - Observation system (a)
 - Illumination system
 - Mechanical support system
 - Power supply
 - Ophthalmic operating microscope is used in
 - (a) Retinal surgery
 - (b) Pteriygium autograft
 - Squint surgery
 - All the above (d)

- B scan can be used for
 - Intraocular foreign body
 - (b) IOL position
 - Extraocular muscle insertion (c)
 - All the above (d)
- Total RD is seen in B scan as
 - Funnel shaped RD (n)
 - (b)
 - (c)
 - (d)
- B scan
 Automated lensometer
 ery is used for
 sing vis IOL power calculation requires
 - (a)
 - (b)
 - (c)
- 20. Perimetery is used for
 - (a)
 - (b) Assessing visual acuity
 - Can be used for IOL power (c)
 - (d) None of the above

SECTION B — $(5 \times 6 = 30 \text{ marks})$

Answer ALL questions.

Discuss the optics of keratometer. 21.

Or

What are the clinical applications of slit amp? Which accessory devices can be used with slit lamp?

What are the advantages and disadvantages of indirect ophthalmoscopy?

Or

- Discuss the technique indirect ophthalmoscopy.
- (a) Discuss optics and techniques interferometry.

Or

- Explain the advantages and disadvantages of pachymetry.
- (a) Discuss the clinical applications lensemeter.

Or

Discuss the clinical applications of operating microscope.

 (a) Write the clinical applications of B scan in ophthalmic practice.

Or

(b) Discuss the advantages and disadvantages of B scan.

SECTION C — $(5 \times 10 = 50 \text{ marks})$

Answer ALL questions.

 (a) What is gonioscopy? Discuss its principle with type. Write briefly on advantages and disadvantages of gonoscope.

Or

- (b) What is specular microscopy explain its optics briefly? What is the method of analysis and clinical uses of specular microscopy.
- 27. (a) What is the technique of indirect ophthalmoscope and also discuss briefly on optics. Mention he advantages and disadvantages of indirect ophthalmoscope.

Or

(b) What is ophthalmoscopy? Discuss the optics of direct ophthalmoscope. Compare direct vs indirect ophthalmoscope. (a) Discuss the optics of pachymeter with diagram and mention its uses, applications. advantages and disadvantages.

Or

(b) How QCT is useful in todays practice?

Mention its clinical applications, advantages
and disadvantages.

Draw a schemmatics diagram depicting components of observation system of operating microscope. Briefly discuss the components of operating microscope.

Or

- (b) Discuss the optic system of lensometer and mention about its clinical use, advantages and disadvantages.
- (a) Discuss briefly on B-scan, its principle and its clinical application.

Or

(b) Discuss briefly on IOL power calculation.

Reg. No.:....

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Q.P. Code: [07 OPT 13]

(For the candidates admitted from 2007 onwards) B.Sc. DEGREE EXAMINATION, DECEMBER 2010.

Third Year

Part III - Optometrics

PHYSICAL AND GEOMETRIC OPTICS

Time: Three hours

Maximum: 100 marks

SECTION A — $(20 \times 1 = 20 \text{ marks})$

Answer ALL the questions.

- Visible spectrum of light is from
 - (a) 200 400 nm
- 400 700 nm
- 300 600 nm
- 500 800 nm
- Electromagnetic theory was proposed by
 - Newton (a)

- HrvreL
- Maxwell

- instein
- Quantion theory was proposed by
 - Newton

- Huygens
- (c) Maxwell
- (d) Einstein

- Phenomena of interference and diffraction is successfully explained by
 - corpuscular theory (a)
 - wave theory (b)
 - electromagnetic theory (c)
 - (d) quantum theory
- The features of an image formed by a plane mirror inchae e
 - same size as object
 - virtual (b)
 - laterally inverted (c)
 - all of the above (d)
- Ayouideir Distance of principle focus from the pole of the spherical mirror is the
 - normal (a)

- principle axis
- focal length (c)
- radius of curvature
- 7. A real inverted image equal to size of object is formed by a concave mirror if object position is
 - At infinity
- Beyond C

(c) A+ C

A+F (d)

8	3. Pr	inciple of total int	ernal r	efraction	is used in						
	(a)	fibreophe lights	3		to asca III		12	. Fo	r testing distant	visual	acuity the distance
	(b)	applanation tor	omete	r				wh	ich the patient i	s seated	from snellens char
	(c)	cronioscope						(a)	121	(b)	5 m
	(d)	all of the above						(6)	10 m	(d)	6 m
9.	The hype	best example of	f minir	num det	erminable of	× ×	33,	/in pap	gle formed betw illary line is	een the	visual axis and
						:190		(a)	Angle alpha	(b)	Angle Beta
	(a)	Snellen's	(b)	Landol	ts	76//		(c)	Angle kappa	(d)	Angle delta
10.	(c)	Vernier	(d)	Gratin	gs	ideind	14.	One	dioptre is the	recipr	ocal of focal leng
		cample of detectio	n acuit	y test is	413			(a)	centimeters	(b)	meters
	(a)	catford drum test		*	70.	(%		(c)	inches	(d)	degrees
		snellens E chart Lighthouse test	N.	1.50	1979,		15.	Angl	e formed betwee at the nodal poin	n the op	otical axis and visu
			111					(a)	Angle alpha	(b)	Angle Beta
12.5		Domino's card * est						(c)	Angle kappa	(d)	Angle gamma
11.	Each le	etter of the sneller — at th	ne char ne noda	t subtead	ls an angle f the eye		16.	10081	point is —	ye posi	tion of the anterio
	(a) 5	min	(b) 1	0 min	8			corne	а.		0.000-0
20.	(c) 1	min						(a)	15.5	(b)	15.6
	(Mars#1) (Mill)		(d) 1	5 min				(c)	15.7	(d)	15.8
		3			D 163						

17.	Ор	tical aberrations o	of eye in	nclude	1
	(a)	Spherical aberr	ation		
	(b)	Chromatic aber	ration		
	(c)	Oblique aberrat	ion		
	(d)	ALL of the abov	e		
18.		allel rays of light he retina in	are br	ought to focus in fron	t
	(a)	Myopia			
	(b)	Hypermetopia			
	(c)	Astegmatropia		3	100
	(d)	None of the abov	e.	errected by Stud	.)
19.	Con	npound astigmatis	m is co	rrected by	
	(a)	convex lens	(b)	concave lens	
	(c)	spherocylinder	(d)	simple cylinder	
20.	Нур	ermetropia is corr	ected b	У	
	(a)	Concave lens	(b)	Convex lens	

(d)

5

None of the above

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Cylinder

SECTION B - (5 × 6 = 30 marks)

Answer ALL questions.

21. (a) Write short notes on Neutons corpusenlar theory

Or

Write short notes on Huygens wave theory

Briefly describe laser of refraction with diagram

Or

- (b) Explain phenomena of total internal reflection with diagram.
- 23. (a) What are the factors affecting visual acuity.

Or

- (b) Explain preferential looking test
- (a) Briefly describe visual angles of the eye and clinical significance

Or

(b) Enumerate the six cardinal points of the eye.

6

 (a) Write short notes on spherical aberration in eye.

Or

(b) Write short notes on ocular chromatic aberrations.

SECTION C — $(5 \times 10 = 50 \text{ marks})$

Answer ALL questions.

 (a) Explain briefly various theories describing the nature of light.

Or

- (b) What is LASER? Explain it's principle of production and applied aspects
- (a) Briefly describe images formed by a concave mirror with appropriate diagrams.

Or

(b) Explain in brief the images formed by a convex lens with appropriate diagrams. (a) Explain lists used for measurement of visual acuity.

Or

(b) What are the components of visual acuity?

Five examples of lists which measure each type.

Explain the axes and angels of the eye with clinical significance.

Or

- (b) Explain the models of schematic eye.
- (a) What are optical aberrations? Explain in detail.

Or

(b) Describe the errors of refraction.

Q. P. Code: 07OPT08

(For candidates admitted from 2007 onwards)

B. Sc. DEGREE EXAMINATIONS, DECEMBER - 2010

Part -III Branch: Optometrics

PATHOLOGY AND MICROBIOLOGY - I

Time: 3 Hours

Maximum: 100 Marks

Section A - (20 X I = 20 Marks)

Answer all the questions

Pannus is a term applied for

. Superficial neovascularization

b. Epithelial oedema

c. Exivaelial keratitis

Vascularization in diabetic retanopathy can be detected by d

a. Retroillumivation

b. Appearance of ulcer

c. Indirect ophypamoscopy

3. Lipid deposition in comea follows

a. Chronic inflammation

Breaks in the membrane.

.: Vascularization

is a filamentous fungi

a. Aspergillus spp.,

b. Nocardia spp.,

c. Klebsiella spp.,

The lens has parts.

a. One

b. Two

c. Three

a. Aqueous samples

Identification of pathogens in lens-induced endophthalmitis is by

0

b. Vitreous samples

Both a & b

b. K c. A 15. 'Normal' IOP in elderly women ranges upto	 14. Vitamin is supplemented for patients with retinitis pigmentosa, a. C b. K 	Ingrowths of vessels & associated tissues in the macular region is referred a. Melanoma b. Rethrest neovascularization c. Chorodal neovascularization Mantoux test involves intracertial injection of purified protein derivative from	Rubeosis iridis is Vascularization of the a. Iris b. Choroid Retina	a. Refractive b. Diffractive c. Distractive	C. None of the above Lens is a vital element.		a. Autosomal dominant (AD) b. Autosomal recessive (AR) c. None of the above a. Refractive b. Diffractive c. Distractive c. Distractive a. Iris b. Choroid Retina Oux test involves intracerptal injection of purified protein derivative a. Mycobacterium letral controls the amount of light ransmitted into the eye. b. Iris c. Choroid controls the amount of light ransmitted into the eye. b. Iris c. Choroid controls day a. Ciliary body b. Iris c. Choroid c. Both a & b. c. Both a & b. d. Retinative patients with retinitis pigmentosa. a. C. b. K. c. A congenital b. Acquired c. Both a & b. b. K. c. A c.
		Mycobacterium towis Mycobacterium towis Mycobacterium lep as ontrols the amount of light Ciliary body Iris Choroid	Ingrowths of vessels to associated tissues in the macular region is referred a. Melanoma b. Reenanceovascularization c. Chor dal neovascularization dantoux test involves intracernal injection of purified protein derivative a. Mycobacterium topists b. Mycobacterium topist c. Mycobacterium lep as c. Choroid	Rubeosis iridis is Vascularization of the a. Iris b. Choroid Retina Ingrowths of vessel & associated tissues in the macular region is referred a. Melapoma b. Rechardneovascularization c. Chorodal neovascularization c. Chorodal neovascularization a. Mycobacterium taberculosis b. Mycobacterium lep a controls the amount of light ransmitted into the eye. a. Ciliary body b. Iris c. Choroid	a. Refractive b. Diffractive c. Distractive Rubeosis iridis is Vascularization of the a. Iris Choroid B. Retina b. Resonana b. Resonana c. Chorodal neovascularization c. Chorodal neovascularization c. Chorodal neovascularization d. Mycobacterium tep as controls the amount of light ransmitted into the eye. a. Ciliary body b. Iris c. Choroid c. Choroid	Lens is a vital element. a. Refractive b. Diffractive c. Distractive c. Distractive a. Iris Neubeosis iridis is Vascularization of the a. Iris b. Choroid a. Meanoma b. Reenanceoularization c. Choroidal neovascularization a. Mycobacterium lepta b. Mycobacterium lepta controls the amount of light ransmitted into the eye. a. Ciliary body b. Iris c. Choroid	na is
na is	na is classif a. b. c.	Mycobacterium Lovis Mycobacterium Lovis Mycobacterium lep ae	Ingrowths of vessely & associated tissues in the macular region is referred a. Melanoma b. Rethor neovascularization c. Chorodal neovascularization Mantoux test involves intraderial injection of purified protein derivative from a. Mycobacterium tobasis b. Mycobacterium lepras c. Mycobacterium lepras	Rubeosis iridis is Vascularization of the a. Iris b. Choroid Retina Ingrowths of vessel & associated tissues in the macular region is referred a. Melapoma b. Retina neovascularization c. Choroidal neovascularization c. Choroidal neovascularization a. Mycobacterium foris b. Mycobacterium foris c. Mycobacterium leprae c. Mycobacterium leprae	Aubeosis iridis is Vascularization of the Bubeosis iridis is Vascularization of the a. Iris b. Choroid Retina Retina Meanoma b. Retarancovascularization c. Choroidal neovascularization c. Chorodal neovascularization c. Chorodal neovascularization d. Mycobacterium leptas a. Mycobacterium leptas c. Mycobacterium leptas c. Mycobacterium leptas c. Mycobacterium leptas	Lens is a vital element. a. Refractive b. Diffractive c. Distractive c. Distractive a. Iris b. Choroid Retina A. Retina b. Retina b. Retina b. Resolution of the macular region is referred a. Meanoma b. Resolution neovascularization c. Choroidal neovascularization c. Choroidal neovascularization c. Choroidal neovascularization c. Alycobacterium teptas b. Mycobacterium teptas c. Mycobacterium leptas c. Mycobacterium leptas	Ontrols the amount of light Ciliary body Iris Choroid
a. Ciliary body b. Iris c. Choroid a is classified as a. Congenital b. Acquired c. Both a & b is supplemented for patients witt	a. Ciliary body b. Iris c. Choroid na is classified as a. Congenital b. Acquired c. Both a & b		Ingrowths of vessels to associated tissues in the macular region is referred a. Melanoma b. Rechart neovascularization c. Chorodal neovascularization Mantoux test involves intradernal injection of purified protein derivative from	Rubeosis iridis is Vascularization of the a. Iris b. Choroid Retina Ingrowths of vessels e- associated tissues in the macular region is referred a. Melanoma b. Retination c. Choroidal neovascularization c. Choroidal neovascularization hantoux test involves intradernal injection of purified protein derivative from	a. Refractive b. Diffractive c. Distractive a. Iris b. Choroid Retina lingrowths of vessely associated tissues in the macular region is referred a Melanoma b. Retina c. Choroidal neovascularization c. Choroidal neovascularization c. Choroidal neovascularization from	8. Lens is a vital element. a. Refractive b. Diffractive c. Distractive c. Distractive a. Iris b. Choroid Retina 10. Ingrowths of vessels associated tissues in the macular region is referred as b. Retina c. Chorofdal neovascularization c. Chorofdal neovascularization c. Choroves intracertial injection of purified protein derivative from	

-	Rod-cone dystrophy affects the	iy affects the more severely.	
	e d	scentors	
	b.	Cones	
		None of the above	
	17. Nocardia is a	filamentous bacterium.	
	cd	Gram positive	
	p.	Gram negative	
	C.	None of the above	
-	8. Mycobactgrium tu	reulosis is stained with	as primary stair
	J. a.		
	P	Crystal violet	
	3	Giemsa stain	
-	19. Neisseria gonarrhea is a	asi sa	
	3.	(Cram positive coccobacilli	
	b.		
	Ö		
00		conjunctivitie is the manes commenced infactions	
1		A demindred to the continuous viral infection	T
	ė .c	Adenovins Varicella zorer virus	
	ő	Herpes simplex orus	
	SECTION	SECTION BACK 6-30 March	
-		a. How to control the infections & inflam nation of comea?	2
		(LO)	
	b. Write notes on	a. Melanosis b. Corneal ne. plasia	
Ci		a. Explain the cellular events of the lens	
		(Or)	
	b. Describe the clir	b. Describe the clinical features of lens-induced uvering.	
in	a. Write short notes	a. Write short notes on choroidal neovascularization.	~
		(Or)	
	 b. Explain the infla 	 b. Explain the inflammation of uveal tract. 	
4.		a. Write the clinical features of rod-cone dysplasia.	
		(Or)	
	 b. What is rod-cone degeneration? 	degeneration?	
S		a. Explain the diagnosis of bacterial eye pathogens.	
		(Or)	
	b. Write about the	 b. Write about the fungal eye pathogens. 	

SECTION – C (5 X 10 = 50 Marks)

- a. Describe the various types of mycotic keratitis
- b. Describe general reactions of comeal inflammation.
- a. Describe the pathogenesis of sugar cataract. 3
- b. Elaborate on the pathogenesis & prophylaxis of lens-induced endophthalmitis
- 3. a. Describe he various stages of equine recurrent uveitis.
- b. Elaborate or the retinal neovascularization.
- a. Describe light-induced retinal degeneration. 4
- b. Write in detail about the pathology of glaucoma. 5. a. Explain the pathogenes(s.g. viral eye pathogens.

b. Explain the diagnosis & treatment of mycobacterial eye pathogens.