FRCOphth Part 1 May 2015

	Anatomy/Embryology	Physiology/Biochemis	Pathology/Microbiology	Pharmacology/geneti	Optics	Miscellaneous/
		try		C	- 100	statistic
1	SOF	SO introcyclotorsion	Peripapillary atrophy	Optic neuropathy	Diffraction	Continuous
				ethambutol		data reduce
						type 1
						error ?student
						T test
2	Lacrimal duct	Sherington law	Vasculitis	Bezalconium action	Reflection concave	Receiver
					mirror	Operating
						characteristic?
						Sensitivity vs
						specificity
3	Ciliary artery to sclera	Sclera water flow	Sarcoidosis	Vancomycin action	Jackson cross	Linear
					cylinder	regression ?vari
						able is
						time ?rate
						changes know
4	Heart valve	Amino acid glycine	Dystrophic Calcium	Penicillin	Maddox rod	?10 yr 100k.
						using gamble
						chance 0.5
						what QL per
						year
5	Ciliary nerve	RNA	Hyaline masson granular	Steroid	Indirect ophthalmo	
6	Corneal epithelium	Lens metabolism	Wound healing	Arachidonic acid	Aphakia image	Anomaloscope
7	Descemet membrane	Rhodopsin stimulated	Autoimmune ? type III	Autoclave? Rubber,	Irregular astigma	FFA
		by photon		alcohol disinfect HIV		
8	Iris band	Anterior pituitary	Immunoglobulin	SJS acetazolamide	BVP calculation	Middle cranial
		hormone				fossa foramen
9	Lens	Pancreatic hormone	HLA	Edrophonium	Amplitude accomo	
		insulin		myasthenia	calculation	
10	Orbit blood supply	ABG resp acidosis	BCC	Cocaine in Horner	Compound	

					microscope	
11	Orbit medial wall	IOP formula F=C+M-N/A?	Melanoma	Cornea polar drug absorption	Captoptric image	
12	Optic canal	IOP reduce blood supply ?retina?ciliary? choroid	Protein - Western blot	Dexamethasone acetate or phosphate better absorption	SRK formula	
13	Lacrimal gland	Cornea transparency	Pterygium histopath	SNP		
14	Periocular embryo	2 nd messenger ?NO arach acid G protein		Complement factor H	Total internal reflection	
15	Vitreous body			Loss of heterozyg ?RP ?RB CHRPE Stickler	Refraction to denser medium	
16	Retina layer			Marfan EDS stickler syndrome which collagen	Prism apparent Angle deviation	
17	Bruch memebrane layer	Intermediate filament ?actin myocin desmocolin	ESR	LeberHON	Retinoscopy with accomo	
18	Foramen ovale	,	Herpes simplex mouth	X-linked recessive	RSM	
19			Varicella zoster		Linear magnify	
20	Conjunctival mucin		Herpes simplex 1		Chromatic aberration	
21	Myelination ON		Pseudomonas		Reduce eye	
22	Fissure Coloboma	Mitochondria ADP	Toxoplasmosis		Bifocal jump	
23	Embryo origin 1		Chlamydia trachomatis		Slit lamp view corneal endo ?retroilluminat ion	
24	Embryo origin 1				Transpose spectacle	
	24	23	23	18	24	8

FRCOphth Paper 2 CRQ May 2015

- 1) Draw sagittal view of brain -6m
 - 2 ocular clinical feature of cerebellar disorder -2m
 - 2 Non ocular clinical feature of cerebellar disorder -2m
- 2) Diagram: brain, hypothalamus, pituitary, adrenal, Hormone A,B,C stress steroid hypothalamic pituitary adrenal axis draw the feedback loop with day and night pattern (Hormone A) 3m

Name 3 hormone -3m

Steroid 2 receptors and their classification – 2m

2 clinical feature of glucocorticoid excess beside HPT and DM -2m

3) Photograph A (BCC) and B (SCC) (Histopathology)

Describe the feature - 1m

What pathological term -1m

What diagnosis -1m

Why brown colour below the slide – 1m

Photo B 2 label what is it -2m

What different between photo A and B -2m

What feature photo B worse -2m

4) Draw concave mirror (image inside focal point) -4m
Draw concave mirror (image outside focal point) -4m

Why mirror in optical instrument no chromatic aberration – 1m What optical instrument using concave mirror as part of the component -1m

- 5) Photo lens (koeppe) use in gonioscopy
 What is it use for 2m
 Draw a diagram to show how to work this optical principal 6m
 What is the other 2 optical instrument using this principal 2m
- 6) Spectacle 10D 10mm then move to 8mm BVD, calculate the power 4m What is the induced phoria if centre move down 8mm (right 3D left eye plano) -3m Transpose the right and left eye power -2m
- 7) 3 colour pictures
 What is 1st picture showed? (Sturm Conoid) -1m
 Why? -1m
 How to reduce it -1m
 What 2nd picture showed (Chromatic aberration) -1m
 Why? -1m
 How to reduce it -1m
 What 3rd picture (Oblique astigmatism) -1m
 Why? 1m
- 8) Biometry list 2 formula -2m
 What measurement required 3m
 If AL 27mm what formula 1m

Given OD -2D/-1.0 OS -3.5D/-1.5D, what left eye expected to be corrected if undergo cataract surgery -1m Where is the surgical incision -1m

9) FFA given 9 fundal photo in 1 diagram

Diagram 1,4,7 what filter to use -3m

Describe diagram lesion (do not give diagnosis) -2m

What phase -1m

What is the vertical dark streak in diagram 9 -1m

Give 2 side effect of sodium fluorescence -2m

Give 2 emergency medications to stand by -2m

10) Picture showing right and left eye HVF

Humphrey visual field what kind of perimetry test -1m

Why SITA better -1m

Which test more reliable -1m

Describe the result -1m

Where is the lesion – 1m

Pattern deviation useful in which two clinical conditions – 2m

11) ERG diagram

Labe 1-4 and 1-2 cell location -4m (1-a wave 2-b wave 3-a wave and oscillatory segment? 4- oscillatory wave)

What does Pattern ERG test for -1m

What 2 clinical conditions make PERG inaccurate -2m

What is 30Hz flicker for -1m

12) WHO (1969) 10 Screening principal -10m