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FINAL EXAM JUNE 2018 NATIONAL BOARD OF EXAMINATIONS

OPHTHALMOLOGY

PAPER-I

TIME: 3 HOURS OPH/J/18/26/I MAX. MARKS: 100

IMPORTANT INSTRUCTIONS

- This question paper consists of 10 questions divided into Part "A" and part "B", each part containing 5 questions.
- Answers to questions of part A and part B are to be strictly attempted in separate answer sheet(s) and the main + supplementary answer sheet(s) used for each part must be tagged separately.
- Answers to question(s) of Part A attempted in answer sheet(s) of part B or Vice versa shall not be evaluated.
- Answer sheets of Part A and Part B are not to be tagged together.
- Part A and Part B should be mentioned only on the covering page of the respective answer sheets.
- · Attempt all questions in order.
- Each question carries 10 marks.
- · Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

PART A

1. a) Anatomical structure of upper eyelid.
b) Its blood supply, venous drainage & lymphatic drainage.
c) Clinical implications of its blood supply.

2. a) Anatomy of the medial wall of orbit.

5+3+2

- b) What is its importance in Orbital decompression?
- c) What is the most common cause of severe bleed during external DCR?
- 3. a) Detailed structure of retinal rods and cones.

6+2+2

- b) Their distribution over the retina.
- c) Implications in vision quality with rod and cone dysfunction.
- 4. a) What are mechanisms of aqueous formation?

5+3+2

- b) Detailed anatomy of the trabecular meshwork and Schlemm canal.
- c) Optical principle to see the angle structures.
- 5. a) What is a "Randomized Control Trial"?

3+3+4

- b) What is randomization and why is it required?
- c) What are confounding factors in a study and how to avoid them?



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(1+3)+(4+2)

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Please read carefully the important instructions mentioned on Page '1'

- Answers to questions of Part A and part B are to be strictly attempted in separate answer sheets and the main + supplementary answer sheets used for each part must be tagged separately.
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PART B

6. a) What is anisocoria and indications for its investigation?

0.	b)	Give the physiological basis and causes of Light-near reflex dissociation.	(1.0).(1.2)
7.	a)	Name 3 commonly used Ophthalmic preservatives in topical medication.	1+4+5
	b)	What are the adverse effects of preservatives in ophthalmic medications?	
	c)	What are the various means of preventing these adverse effects?	
8.	_	What is AC:A ratio for convergence?	1+5+4
	c)	What are the methods of measuring it? Briefly discuss the disorders resulting from altered AC:A ratio.	
9.	b)	What is the principle of Optical Coherence Biometry? Which Ophthalmic equipment uses this principle? What are the advantages and disadvantages of this type of	2+2+6
		biometry?	
10.	•	Metabolism of the lens in the eye. How does the lens maintain transparency?	4+6
