

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018

OPHTHALMIC TECHNOLOGY

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 . Cross section of upper eyelid
- 2 . Drainage of aqueous humour
- 3 . Ocular movements
- 4 . Uses of various mirrors in ophthalmology / Contents of orbit
- 5 . Types of astigmatism

II. Short answers

10 X 3 = 30 marks

- 6 . Types of blepharitis
- 7 . Trichiasis
- 8 . schrimmer test
- 9 . Near vision charts
- 10 . Uses of prism
- 11 . Fogging technique
- 12 . Astigmatic fan
- 13 . Uses of cylindrical lens
- 14 . A-scan
- 15 . Grades of binocular single vision

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 . How to write prescription format
- 2 . Describe the types and management of Myopia
- 3 . Contact lenses and its indications
- 4 . Refractive surgeries
- 5 . Advantages of executive bifocal lenses

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II. Short answers

10 X 3 = 30 marks

- 6 . Multifocals
- 7 . Name the tests used to check binocular single vision
- 8 . Complications of contact lens use
- 9 . What is simple transposition of lenses for -2Dspherical
- 10 . -1.0 cylindrical at 90 degrees
- 11 . Methods of correction of aphakia
- 12 . Antireflection coating
- 13 . Parts of spectacles
- 14 . Intraocular refractive surgeries
- 15 . Visual acuity test in children

PARAMEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, AUGUST 2019
II YEAR DIPLOMA IN OPHTHALMIC TECHNOLOGY(DOT)
TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS:100

QP CODE: 5161, PAPER-I

I. SHORT NOTES - ANSWER ANY EIGHT

8 x 5=40

1. Write a neat diagram of V/S of the Eye ball and label the parts.
2. Explain laws of reflection. Illustrate with diagram.
3. Write a note on: a) Anisokonia b) Anisometropia
4. What is hyper metropia? How do you correct it, indicate with diagram.
5. Aphakia and its correction.
6. How do you test near and distant vision and materials used for testing.
7. How do you arrange dark room for conducting refraction?
8. Trial lens kit and its contents.
9. Write a diagram of lacrimal oparatus.
10. Write a short note on: a) Ametropia b) Amblyopia

II. Short Notes answer all the questions of the following:

20X3=60

11. Types and causes of astigmatism.
12. Optical constants of the Eye.
13. What is Presbyoia.
14. Causes of myopia.
15. Types of Lenses.
16. Pinhole.
17. Advantage of contact lens.
18. Types of prescription lenses.
19. Give the prescription for the following refractions conducted:

a)
$$\begin{array}{c|c} & +2.O_D \\ \hline & \\ \hline & +2.O_D \end{array}$$

b)
$$\begin{array}{c|c} & - 6.O_D \\ \hline & \\ \hline & - 6.O_D \end{array}$$

c)
$$\begin{array}{c|c} & \pm 0.2.5_D \\ \hline & \\ \hline & +1.O_D \end{array}$$

20. Types of bifocal lenses.
21. Parts of spectacle.
22. Methods of refraction
23. Diagnose the kind of refractive error for the following prescription given:

1. $-2.O_D$ SPH BE
2. $+ 5.O_D$ SPH BE
3. $-2.O_D/-1.O_D$ 90° BE

24. Keratometer
25. Slit lamp
26. Tonometer
27. Colour Vision
28. Drugs used in refraction
29. Refractive media of the Eye ball
30. Diagram of the Eye lens.

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PARAMEDICAL BOARD, BENGALURU
SUPPLEMENTARY EXAMINATION, JANUARY 2020
II YEAR DIPLOMA IN OPHTHALMIC TECHNOLOGY
QP CODE: 5161, OPHTHALMOLOGY PAPER-I(RS -2 SCHEME)
(WRITE IN GREEN ANSWER BOOK)

TIME: 3 HRS

MAX. MARKS:100

I. SHORT NOTES - ANSWER ANY EIGHT

8 x 5=40

1. Define myopia. Describe Clinical Types of Myopia
2. Name Cycloplegic Eye drops and describe their uses
3. Define Presbyopia. Describe Optical Correction of Presbyopia
4. Describe principle & uses of Snellen's Chart
5. Draw a neat Labelled Diagram of Cut Section Of eyeball
6. Advantages of Contact Lenses over Spectacles
7. What Is Lasik Procedure? Mention its Uses
8. High Index Lenses
9. Formation & drainage of aqueous humour
10. Low visual aids and uses

II. SHORT ANSWERS

20x3=60

11. Draw a neat labelled diagram of cut section of eyelid
12. Describe 3 Methods of recording Intra ocular pressure
13. Layers of Tear Film
14. Name Extra Ocular Muscles and their Nerve Supply
15. Optical Correction of Aphakia
16. Fogging Technique
17. Duochrome Test
18. How to Identify a Convex Lens
19. Components of accommodation
20. Jackson's cross Cylinder & its Uses
21. Write simple transposition of lens +2D sphere -1 D Cylinder at 90 Degree axis
22. Lenticular Lenses
23. Draw neat Diagram of optics of myopia
24. Describe different Designs of Spectacle Frame
25. Material Used for spectacle Frame
26. Trial Set
27. Layers of cornea
28. Mention Different Stereo acuity Tests
29. Types of colour Blindness
30. Types of Perimeter

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ANNUAL EXAMINATION, NOVEMBER 2020

II YEAR DIPLOMA IN OPHTHALMIC TECHNOLOGY (DOT)

TIME: 3 Hrs

(RS -2 SCHEME)

MAX. MARKS:100

QP CODE: 5161, OPHTHALMOLOGY, PAPER-I

(WRITE IN GREEN ANSWER BOOK)

SHORT NOTES - ANSWER ANY EIGHT

8 x 5=40

- 1 Draw a neat labeled diagram of cut section of eyeball
- 2 What Is Lasik Procedure & mention its uses
- 3 Define Presbyopia. Describe optical correction of Presbyopia
- 4 Describe principle & uses of Snellen's Chart
- 5 Define myopia. Describe clinical types of myopia
- 6 Advantages of contact lenses over spectacles
- 7 Name cycloplegic eye drops and describe their uses
- 8 High Index Lenses
- 9 Formation & drainage of aqueous humour
- 10 Low visual aids and uses

SHORT ANSWERS

20x3=60

- 11 Bifocal lens
- 12 Describe 3 methods of recording intra ocular pressure
- 13 Layers of Tear Film
- 14 Name extra ocular muscles and their nerve supply
- 15 Optical correction of Aphakia
- 16 Fogging Technique
- 17 Duochrome Test
- 18 How to identify a convex Lens?
- 19 Components of accommodation
- 20 Jackson's cross Cylinder & its Uses
- 21 Write simple transposition of lens +2D sphere -1 D Cylinder at 90 Degree axis
- 22 Lenticular Lenses
- 23 Draw neat diagram of optics of myopia
- 24 Describe different designs of Spectacle Frame
- 25 Material used for spectacle Frame
- 26 Trial Set
- 27 Layers of cornea
- 28 Mention Different Stereo acuity Tests
- 29 Types of colour Blindness
- 30 Types of Perimeter

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SUPPLEMENTARY EXAMINATION, JULY 2021

II YEAR DIPLOMA IN OPHTHALMIC TECHNOLOGY (DOT)

TIME: 3 Hrs

(RS -2 SCHEME)

MAX. MARKS:100

QP CODE: 5161, OPHTHALMOLOGY, PAPER-I

(WRITE IN GREEN ANSWER BOOK)

SHORT NOTES - ANSWER ANY EIGHT

8 x 5=40

- 1 Define hypermetropia. Classify hypermetropia
- 2 Laws of refraction
- 3 Layers of retina
- 4 Define retinoscopy. Add a note on objective refraction
- 5 Cycloplegic refraction and its uses
- 6 Ocular coats of the eye
- 7 treatment of myopia
- 8 Extra ocular muscles and action of each muscle
- 9 Describe drainage of aqueous humour of the eye
- 10 Ascan biometry

SHORT ANSWERS

20x3=60

- 11 Prisms
- 12 Types of spectacle frames
- 13 Worth 4 dot test
- 14 Trial frame
- 15 Jackson cross cylinder and its uses
- 16 Lacrimal apparatus
- 17 Maddox rod
- 18 Types of contact lens
- 19 Tear film
- 20 Lasik
- 21 Structure of eyelid
- 22 Write simple transposition of +3DS-1DC at 180 degrees
- 23 How to identify concave lens?
- 24 Bifocal lens
- 25 Factors affecting corneal transparency
- 26 Types of tonometer
- 27 Fogging technique
- 28 Snellens chart
- 29 Pupillary reflexes
- 30 Homatropine

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PARAMEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, NOVEMBER 2021

II YEAR DIPLOMA IN OPHTHALMIC TECHNOLOGY (DOT)

TIME: 3 Hrs

(RS -2 SCHEME)

MAX. MARKS:100

QP CODE: 5161, OPHTHALMOLOGY, PAPER-I

(WRITE IN GREEN ANSWER BOOK)

SHORT NOTES - ANSWER ANY EIGHT

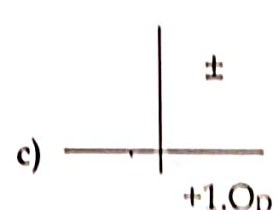
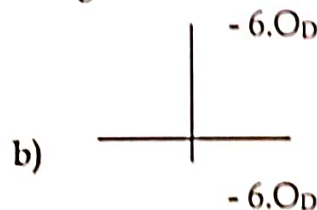
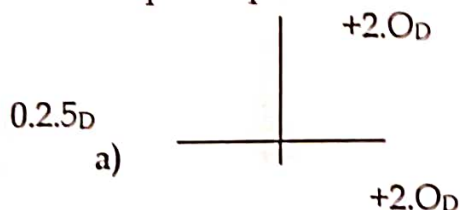
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- 5 Aphakia and its correction
- 6 How do you test near and distant vision? Mention the materials used for testing
- 7 How do you arrange dark room for conducting refraction?
- 8 Trial lens kit and its contents
- 9 Write a diagram of lacrimal apparatus
- 10 Write a short note on: a) Ametropia, b) Amblyopia

SHORT ANSWERS

20x3=60

- 11 Types and causes of astigmatism
- 12 Optical constants of the Eye
- 13 What is Presbyopia?
- 14 Causes of myopia
- 15 Types of Lenses
- 16 Pinhole
- 17 Advantage of contact lens
- 18 Types of prescription lenses
- 19 Give the prescription for the following refractions conducted:



- 20 Types of bifocal lenses
- 21 Parts of spectacle
- 22 Methods of refraction
- 23 Diagnose the kind of refractive error for the following prescription given:
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 2. +5.0D SPH BE
 3. -2.0D/-1.0D 90° BE
- 24 Keratometer
- 25 Slit lamp
- 26 Tonometer
- 27 Colour Vision
- 28 Drugs used in refraction
- 29 Refractive media of the Eye ball
- 30 Diagram of the Eye lens.

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