

Vocational Practical Question Bank

Second Year

Ophthalmic Technician

Course Code:613

State Institute of Vocational Education

**O/o the Commissioner of Intermediate
Education,**

Telangana, Hyderabad

&

Board of Intermediate Education,

Telangana, Hyderabad

OPHTHALMIC TECHNOLOGY
Second Year
Subject : SPECTACLE LENS GRINDING,
DISPENSING OF SPECTACLES
Paper - I

Time : 3 Hours

Max. Marks : 50

Section - I

(1 x 8 = 8 Marks)

1. Draw the sketch diagram of types of lenses.
2. Draw the sketch diagram of spectacle frame.
3. Draw the sketch diagram of spherical aberration.
4. Write about inter papillary distance.
5. Write about base curve.
6. Write about trial of lenses and frames.

Section - II

(1 x 8 = 8 Marks)

7. Write about principles of grinding.
8. Write about Bifocals.
9. Write about cylindrical lenses.
10. What is Astigmatism?
11. Write about trial lenses.
12. Write about Multi focal lenses.

Section - III

(1 x 8 = 8 Marks)

13. Draw the foci meter.
14. Draw the convex and concave lens.
15. Draw the related measurement of frames with faces.
16. Write about cylindrical grinding.
17. Write about importance of IPD.
18. Write about aphakic glasses.

Section - IV

(2 x 4 = 8 Marks)

19. (a) Grinding of lens
(b) Astigmatic lens
20. (a) Protective glasses
(b) Tinted glasses
21. (a) Dispensing of cylindrical lens
(b) Selection of frame type
22. (a) Trial frame
(b) Trial lenses
23. (a) Cylindrical grinding
(b) Prism lens
24. (a) Ingredients of materials
(b) Tools used for grinding

Section - V

(4 x 2 = 8 Marks)

Describe

- 25. (a) Various parts of frames
- (b) Various parts of ophthalmic lens
- (c) Vertical decentration of lens
- (d) Horizontal decentration of lens
- 26. (a) Protective Eye glasses
- (b) Transition lenses
- (c) Tinted lenses
- (d) Tints in CR39 lenses
- 27. (a) Ingredient of Material
- (b) Grinding
- (c) Grinding powder
- (d) Grinding pads & tools
- 28. (a) Frame types
- (b) Specific indication of frames
- (c) Centration of frames
- (d) Centration of lenses
- 29. (a) Types of faces
- (b) Related spectacle measurement
- (c) Aphakic frame types
- (d) Frame selection for children
- 30. (a) Prismatic lenses
- (b) Prismatic lens grinding
- (c) Fitting of prismatic lenses
- (d) Uses of frosted lenses.

Section - VI

Record

5 Marks

Viva

5 Marks

OPHTHALMIC TECHNOLOGY

Second Year

MODEL QUESTION PAPER

Subject : Spectacle Lens Grinding Dispensing Of Spectacles

Paper - I

Time : 3 hours

Max. Marks : 50

Section - I

1 x 8 = 8 marks

4. Draw the frame types and specific indications.

Section - II

1 x 8 = 8 Marks

8. Write about lens grinding process.

Section - III

2 x 4 = 8 Marks

17. Write about Bifocal and Multifocal requirements.

Section - IV

2 x 4 = 8 Marks

22. (a) IPD and its importance.

(b) Prismatic effect.

Section - V

4 x 2 = 8 Marks

25. (a) Unifocals and Multifocals.

(b) Aberrations in lenses.

(c) Base curves.

(d) Focimeter.

Section - VI

Record

5 Marks

Viva

5 Marks

Note : The Serial numbers of the questions mentioned above are the serial numbers in question bank. In practical examination only the serial number of the questions will be given, the examiner shall decode it with question bank and give the questions.

OPHTHALMIC TECHNOLOGY

Second Year

PRACTICAL SCHEME OF VALUATION

Subject : Spectacle Lens Grinding, Dispensing of spectacles
Paper - I

Time : 3 hours

Max. Marks : 50

Section - I,II,III Major Questions (1 x 8 = 8 Marks)

- | | | |
|------------------------------------|---|---------|
| 1. Principle / Objective / Purpose | : | 1 mark |
| 2. Material | : | 1 mark |
| 3. Procedure / Method | : | 4 marks |
| 4. Result / Observation / Comment | : | 2 marks |

Section - IV (2 x 4 = 8 Marks)

- | | | |
|------------------------------|---|---------|
| 1. Purpose / Use / Objective | : | 1 mark |
| 2. Method / Description | : | 2 marks |
| 3. Result or Remark | : | 1 mark |

Section - V Identification and Use (4 x 2 = 8 Marks)

- (a) Cutting and fitting of lenses
- (b) Dispensing spectacles
- (c) Grinding process
- (d) Unifocals, Bifocals & Multifocals

Section - VI

- | | | |
|---------------|---|---------|
| Record | : | 5 Marks |
| Viva | : | 5 Marks |

OPHTHALMIC TECHNOLOGY

Second Year

Subject : COMMON OCULAR DISEASES & PRIMARY OPERATION THEATRE PROCEDURES

Paper - II

Time : 3 Hours

Max. Marks : 50

Section - I

(1 x 8 = 8 Marks)

1. Draw the sketch diagram of eye lid.
2. Draw the sketch diagram of conical ulcer.
3. Draw the sketch diagram of distichiasis.
4. Write about sac-syringing.
5. Name some eye lid infections.

Section - II

(1 x 8 = 8 Marks)

6. Write about cataract and investigation.
7. Write about allergic conditions of eye.
8. Write about glaucoma and management.
9. How do you record visual fields.
10. What is minor OT theatre procedure.
11. Post operative instructions of Eye surgery.

Section - III

(1 x 8 = 8 Marks)

12. How do you perform sac-syringing?
13. What are the pre-operative instructions?
14. Importance of fluorescent staining.
15. How do you achieve Asepsis?
16. Sterilization process of minor OT.
17. How do you test for colour vision.

Section - IV

(2 x 4 = 8 Marks)

18. (a) Sac-syringing.
(b) Importance of Sac-syringing.
19. (a) Asepsis.
(b) Sterilization.
20. (a) Post operative eye care
(b) Operative instructions to patient
21. (a) Preparation of patient for surgery.
(b) Sterilization process.
22. (a) Corneal ulcer.
(b) Types of ulcers.
23. (a) Anesthetic agents.
(b) Indication of Anesthetic agents.

Section - V

(4 x 2 = 8 Marks)

24. (a) Vitamin-A deficiency.
(b) Injuries to eye.
(c) Sub-conjunctiva hemorrhage
(d) Eye – Allergy.
25. (a) Tonometry.
(b) Fluoroscein staining.
(c) Lacrimal test.
(d) Colour vision.
26. (a) Urine test.
(b) Albumin.
(c) Sugar.
(d) Hypertension.
27. (a) Various instruments.
(b) Principles of Instruments.
(c) Calibration of Instruments.
(d) Slit Lamp.
28. (a) Eye lid infections.
(b) Internal hordeolum.
(c) Blepharitis.
(d) External hordeolum.
29. (a) Bandaging the eye.
(b) Anesthetic agents.
(c) Corneal ulcers.
(d) Injuries to eye.

Section - VI

Record

5 Marks

Viva

5 Marks

OPHTHALMIC TECHNOLOGY
Second Year
MODEL QUESTION PAPER
Subject : Common Ocular Diseases &
Primary Operation Theatre Procedures
Paper - II

Time : 3 hours

Max. Marks : 50

Section - I

1 x 8 = 8 marks

3. Pre-operative and post-operative instructions of eye surgery.

Section - II

1 x 8 = 8 Marks

10. Write about cataract and investigations.

Section - III

1 x 8 = 8 Marks

14. Write about Glaucoma and its management.

Section - IV

2 x 4 = 8 Marks

19. (a) Name some lid infections.
(b) Write about corneal ulcers.

Section - V

4 x 2 = 8 Marks

25. (a) Tonometer.
(b) Visual fields.
(c) Colour vision.
(d) Lacrimal test.

Section - VI

Record

5 Marks

Viva

5 Marks

Note : The Serial numbers of the questions mentioned above are the serial numbers in question bank. In practical examination only the serial number of the questions will be given, the examiner shall decode it with question bank and give the questions.

OPHTHALMIC TECHNOLOGY

Second Year

PRACTICAL SCHEME OF VALUATION

Subject : Common Ocular Diseases & Primary Operation Theatre Procedures

Paper - II

Time : 3 hours

Max. Marks : 50

Section - I,II,III Major Questions (1 x 8 = 8 Marks)

1. Principle / Objective / Purpose : 1 mark
2. Materials : 1 mark
3. Procedure / Method : 4 marks
4. Result / Observation / Comment : 2 marks

Section - IV (2 x 4 = 8 Marks)

1. Purpose / Use / Objective : 1 mark
2. Method / Description : 2 marks
3. Result or Remark : 1 mark

Section - V Identification and Use (4 x 2 = 8 Marks)

- (a) Swab smears.
- (b) Swab cultures.
- (c) Common Eye diseases.
- (d) Detecting common eye diseases.

Section - VI

- Record** : 5 Marks
- Viva** : 5 Marks

OPHTHALMIC TECHNOLOGY

Second Year

PRACTICAL SCHEME OF VALUATION

Subject : Refractive Errors, Maintenance Of Investigative Instruments & Equipments
Paper - III

Time : 3 Hours

Max. Marks : 50

Section - I

(1 x 8 = 8 Marks)

1. What is squint.
2. Write about slit lamp.
3. What is Keratometer.
4. How do you check visual acuity?
5. How do you check visual acuity for near?
6. Name some eye surgical instruments.

Section - II

(1 x 8 = 8 Marks)

7. Write about Aphakic correction.
8. How do you check IOP in with slit-lamp.
9. Write about symptomatology of Myopia.
10. Write about symptomatology of hypermetropia.
11. Write about symptomatology of Astigmatism.
12. Write about examination of eye.

Section - III

(1 x 8 = 8 Marks)

13. Write about ophthalmoscope.
14. Write about optical system of slit-lamp.
15. Write about magnification system of Indirect ophthalmoscope.
16. Write about mechanical system of slit-lamp.
17. Write about illumination system of Retinoscope.

Section - IV

(2 x 4 = 8 Marks)

19. (a) Write about cataract
(b) Causes of cataract
20. (a) Ophthalmoscope
(b) Retinoscope.
21. (a) Pin hole
(b) Calibration of slit lamp
22. (a) Write about Eye Instruments
(b) Surgical Instruments
23. (a) Presbyopia.
(b) Contact lens.
24. (a) Reading problems in children.
(b) Vitamin-A deficiency.

Section - V

(4 x 2 = 8 Marks)

Identify the following

25. (a) Retinoscope
(b) Direct Ophthalmoscope
(c) Occuluder
(d) Muscle test torch
26. (a) Fixation light
(b) Snellen's chart
(c) Chart for illiterates
(d) Slit-Lamp
27. (a) Lensometer
(b) Prism lenses
(c) Protective Eye wear
(d) Prism bar
28. (a) Eye bandage
(b) Punctum dilator
(c) Tonometer
(d) Occluder
29. (a) Pin-hole
(b) Maddox rod
(c) Prentice ruler for near vision
(d) IPD measuring scale
30. (a) Lens marker
(b) Digital lens-meter
(c) Sterilizer
(d) Eye protection cup.

Section - VI

Record

5 Marks

Viva

5 Marks

OPHTHALMIC TECHNICIAN
Second Year
MODEL QUESTION PAPER
Subject : Community Ophthalmology & Health Education
Paper - III

Time : 3 hours

Max. Marks : 50

Section - I

1 x 8 = 8 marks

1. Write about symptomatology of hypermetropia & management.

Section - II

1 x 8 = 8 Marks

10. Write about management of vitamin-A, deficiency.

Section - III

1 x 8 = 8 Marks

17. Contact lens prescription and practice.

Section - IV

2 x4 = 8 Marks

21. (a) Trial set
(b) Instruments

Section - V

4 x 2 = 8 Marks

26. (a) Muscle light
(b) Fixation lamp
(c) Surgical instruments
(d) Cataract

Section - VI

Record

5 Marks

Viva

5 Marks

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OPHTHALMIC TECHNICIAN
Second Year
MODEL QUESTION PAPER
Subject : Community Ophthalmology & Health Education
Paper - III

Time : 3 hours

Max. Marks : 50

Section - I,II,III Major Questions (1 x 8 = 8 Marks)

- | | | |
|------------------------------------|---|---------|
| 1. Principle / Objective / Purpose | : | 1 mark |
| 2. Materials | : | 1 mark |
| 3. Procedure / Method | : | 4 marks |
| 4. Result / Observation / Comment | : | 2 marks |

Section - IV (2 x 4 = 8 Marks)

- | | | |
|------------------------------|---|---------|
| 1. Purpose / Use / Objective | : | 1 mark |
| 2. Method / Description | : | 2 marks |
| 3. Result or Remark | : | 1 mark |

Section - V Identification and Use (4 x 2 = 8 Marks)

- (a) Presbyopia
- (b) Aphakia
- (c) Hypermetropia & Myopia
- (d) Astigmatism

Section - VI

- | | | |
|--------|---|---------|
| Record | : | 5 Marks |
| Viva | : | 5 Marks |