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

Describe  
(4 x 2 = 8 Marks)

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) Trasition 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
4. Draw the frame types and specific indications. 1 x 8 = 8 marks

Section - II
8. Write about lens grinding process. 1 x 8 = 8 Marks

Section - III
17. Write about Bifocal and Multifocal requirements. 2 x 4 = 8 Marks

Section - IV
22. (a) IPD and its importance.
(b) Prismatic effect. 2 x 4 = 8 Marks

Section - V
25. (a) Unifocals and Multifocals.
(b) Aberrations in lenses. 4 x 2 = 8 Marks
(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 corneal 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?
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

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 symptomalogy of Myopia.
10. Write about symptomalogy of hypermetropia.
11. Write about symptomalogy 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 
Identify the following (4 x 2 = 8 Marks)

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 x 4 = 8 Marks
21. (a) Trail 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
Viva
5 Marks
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 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