

Maharashtra State Board of Secondary & Higher Secondary

Education Board

H.S.C. Examination

H.S.C.VocationalCourse – Practical Exam,

Ophthalmic Technician (RA, RB, RC)

Common Ocular Discases, Special Investigations And

O.T.Procedures (RA)

Each Student has-

Q.No. 1	Long Experiment 1	25 Marks	1½ hour
Q.No. 2	Short Experiment 1	15 Marks	½ hour
Q.No.3	Identification Spot (10)	20 Marks	½ hour
Q.No. 4	Viva and Journal	20 Marks	½ Hour

Total – 3 hours.

List of Long Experiments **25 Marks each** **1½ hours**

1. To take history & ocular examination of patient.
2. To do sac syringing.
3. To check IOP.
4. To check distant vision.
5. To check near vision.
6. To check colour vision.
7. To do ophthalmoscopy.
8. To do perimetry.
9. To check blood pressure.
- 10.To estimate urine sugar.
- 11.To do eye bandaging.
- 12.To do epilation.

List of Short experiment 15 marks each ½ hours

1. To do Schirmer's test.
2. To take Conjunctival swab.
3. To test xylocaine sensitivity.
4. To do corneal sensation test.
5. To do fluorescence staining.
6. To test iris shadow.
7. To do digital tonometry.
8. To do pin -hole test.
9. To do deochrome test.
10. To do FRIEND test.

Q.3 Spotting 2marks each spot (20) 1/2 hours

1. Lignocaine 4% drops
2. Lignocaine 2% drops
3. Atropine eye drops/ ointment
4. Drosyn eye drops
5. Chloromycetine applicaps
6. Fluorescene strips
7. Schoitz' Tonometer
8. Distant vision chart
9. Near vision chart
10. Fundoscope
11. Torch
12. Bandage eye pad
13. Epilation forceps
14. Eye speculum
15. Lachrimal cannula
16. Punctum dilator
17. Chalazion clamp
18. Chalazion scoop
19. Sterilisation indicators
20. Benedict's solution

Q.4 Viva and Journal 10+10 = 20 Marks ½ hours

Refractive errors, squint and contact lenses (RB)

Each Student has-

Q.No. 1	Long Experiment 1	25 Marks	1½ hours
Q.No. 2	Short Experiment 1	15 Marks	½ hours
Q.No.3	Identification Spot (10)	20 Marks	½ hour
Q.No. 4	Viva and Journal	20 Marks	½ hours

Total –3 hours.

List of Long Experiments 25 Marks each 1½ hours

1. To do plane mirror retinoscopy.
2. To do streak retinoscopy.
3. To do subjective refraction and prescription writing.
4. To do refraction of presbyopia.
5. To do Maddox rod test.
6. To do Maddox wing test.

Q.2 List of Short experiment 15 marks each ½ hours

1. To do cover test.
2. To do cover and uncover test.
3. To do diplopia test.
4. To measure angle of squint with the help of torch.
5. To study and identify lenses in trial box.
6. To perform insertion of contact lens.
7. To remove contact lens.

Q.3 Spotting 2marks each spot (20 marks) ½ hours

1. Trial frame
2. Trial box
3. Plus spherical lenses
4. Minus spherical lenses
5. Plus cylindrical lenses
6. Minus cylindrical lenses
7. Pin hole lens
8. Occluder lens
9. Slit lens
10. Maddox rod
11. Maddox wing
12. Prism lenses
13. Lensometer
14. Distance vision chart
15. Near vision chart
16. Contact lenses
17. Plane mirror retinoscope
18. Streak retinoscope
19. Red glasses
20. Green glasses

Q.4 Viva and Journal 10+10=(20 Marks) ½ hour

Special lens grinding and dispensing of spectacles (RC)

Each Student has-

Q.No. 1	Long Experiment 1	25 Marks	1½ hours
Q.No. 2	Short Experiment 1	15 Marks	½ hour
Q.No.3	Identification Spot (10)	20 Marks	½ hour
Q.No. 4	Viva and Journal	20 Marks	½ Hour

Total –3 hours.

List of Long Experiments	25 Marks each	1½ hours
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1. To do spherical grinding and polishing
2. To do cylindrical grinding and polishing
3. To do bifocal grinding and polishing
4. To do spherical lens fitting in plastic and metal frame
5. To do cylindrical lens fitting in plastic and metal frame
6. To do bifocal lens fitting in plastic and metal frame

List of Short experiment	15 marks each	½ hours
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1. To do verification of unknown lens by neutralisation
2. To do verification of unknown lens by Geneva lens measure
3. To do verification of unknown lens by lensometer
4. To measure IPD
5. To study different frames
6. To do marking on glasses
7. To do cutting of glasses
8. To do Edging of glasses
9. To identify different types of bifocal lenses

Spotting**2marks each spot(20 Marks)****½ hours**

1. Blank glass
2. Tools - Spherical / Cylindrical
3. Button
4. Wax
5. Roughing powder
6. Grinding powder (MO2, MO3)
7. Polish cloth
8. Polish powder
9. RaI
10. Gauge
11. Executive bifocal
12. D bifocal
13. Fuse bifocal
14. Split bifocal
15. Photochromatic glasses
16. Multifocal lens
17. Aphakic glass
18. Diamond cutter
19. Chipping plier
20. Frame heater
21. Edging machine
22. Frames
23. Lensometer
24. Geneva lens measure

Q.4 Viva and Journal**10+10= (20 Marks)****½ Hours**