

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

[AHS 0321]

**MARCH 2021  
(OCTOBER 2020 EXAM SESSION)**

**Sub. Code: 1635**

**M.OPTOM  
SECOND YEAR (From 2018-2019 onwards)  
PAPER V – SPORTS VISION AND OCCUPATIONAL OPTOMETRY  
Q.P. Code : 281635**

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. Visual task analysis in Sports with one example
2. Role of optometrists in occupational health with specific reference to Visual display

**II. Write Short Notes on:**

**(10x6 = 60)**

1. Heat disorders in the work place
2. Discuss general visual characteristics of a sport.
3. Safety and control measures of chemical splashes with specific reference to the eyes.
4. Perceptual mechanism in visual information processing in sports
5. Advantages of contact lenses over spectacles in the workplace
6. Medicolegal issues while prescribing protective eyewear for sports
7. Ocular and visual effects of pesticides with 2 examples
8. Common ocular injuries in football
9. Types of glare and how can it be managed
10. Static and Dynamic Visual Acuity

\*\*\*\*\*

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

[AHS 0921]

**SEPTEMBER 2021  
(MAY 2021 EXAM SESSION)**

**Sub. Code: 1635**

**M.OPTOM  
SECOND YEAR (From 2018-2019 onwards)  
PAPER V – SPORTS VISION AND OCCUPATIONAL OPTOMETRY  
*Q.P. Code : 281635***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. Visual task analysis in Occupation with an example.
2. Visual information processing in sports, with 1 example

**II. Write Short Notes on:**

**(10x6 = 60)**

1. Occupational lenses while prescribing spectacles
2. Prevention of Ocular and visual effects of pesticides
3. Safety and control measures of ocular injuries in sports.
4. Discuss general visual characteristics of a sport.
5. Static and Dynamic visual acuity
6. Refractive error correction requirement in sports
7. Work place hazards – reference to any particular industry
8. Risk assessment in an industry
9. Chemical splash – prevention and management
10. What are some of the health promotion activities that can be planned in an industry.

\*\*\*\*\*

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

[AHS 0122]

**JANUARY 2022  
(OCTOBER 2021 EXAM SESSION)**

**Sub. Code: 1635**

**M.OPTOM  
SECOND YEAR (From 2018-2019 onwards)  
PAPER V – SPORTS VISION AND OCCUPATIONAL OPTOMETRY  
*Q.P. Code : 281635***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. Planning a sports vision evaluation at a regional football championship game in your locality.
2. You have been appointed as the occupational optometrist in a new chemical plant, how will you plan and organize the occupational health assessment, risk assessment and ocular protection plan.

**II. Write Short Notes on:**

**(10x6 = 60)**

1. Occupational lenses while prescribing spectacles
2. Prevention of Ocular and visual effects of pesticides
3. Safety and control measures of ocular injuries in sports.
4. Discuss general visual characteristics of a sport.
5. Static and Dynamic visual acuity
6. Refractive error correction requirement in sports
7. What are some of the health promotion activities that can be planned in an industry
8. Perceptual mechanism of visual information processing in Sports
9. Effects of UV Radiation on the eye.
10. Peripheral awareness testing and improvement

\*\*\*\*\*

**THE TAMIL NADU M.G.R. MEDICAL UNIVERSITY**

[AHS 1022]

**OCTOBER 2022**

**Sub. Code: 1635**

**M.OPTOM**

**SECOND YEAR (From 2018–2019 & 2020-2021 onwards)**

**PAPER V – SPORTS VISION AND OCCUPATIONAL OPTOMETRY**

***Q.P.Code : 281635***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. How would you develop a plan for a sports vision evaluation in your local sports club? How will you convince the participants regarding the importance of such an evaluation?
2. Discuss in detail about steps involved in Visual task analysis for a school teacher.

**II. Write short notes on:**

**(10 x 6 = 60)**

1. Occupational progressive lenses.
2. Static and dynamic visual acuity.
3. Work place hazards in Eye Frame making industry.
4. Chemical splash prevention and management.
5. Types of glare and how it can be managed.
6. Influence of refractive error on sports performance.
7. Ergonomic advice for VDU users.
8. What is visual-coincidence anticipation?
9. Discuss the role of protective eyewear in sports with an example.
10. Discuss the treatment/ management of sports related ocular injuries.

\*\*\*\*\*

**THE TAMIL NADU M.G.R. MEDICAL UNIVERSITY**

[AHS 0523]

**MAY 2023**

**Sub. Code: 1635**

**M.OPTOM**

**SECOND YEAR (From 2020-2021 onwards)**

**PAPER V – SPORTS VISION AND OCCUPATIONAL OPTOMETRY**

*Q.P. Code: 281635*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. Role of Optometrist in occupational health with specific reference to visual display.
2. Application of visual information processing to a sport, give an example and discuss.

**II. Write short notes on:**

**(10 x 6 = 60)**

1. Heat hazards in work place.
2. Effect of Ultra Violet ray in Eye.
3. How will you prescribe a glass for snooker player?
4. What all occupational hazards you can think of in a tyre industry?
5. Common ocular injuries in shuttlecock.
6. Discuss the issues with contact lenses for athletes.
7. Advantages of Contact lens over spectacles in work place.
8. What are the essential components of a Sports vision screening report?
9. Steps in oculomotor evaluation in sports.
10. Effect of contrast sensitivity on the performance of a sportsperson.

\*\*\*\*\*

**THE TAMIL NADU M.G.R. MEDICAL UNIVERSITY**

**[AHS 1023]**

**OCTOBER 2023**

**Sub. Code: 1635**

**M.OPTOM  
SECOND YEAR (From 2020-2021 onwards)  
PAPER V – SPORTS VISION AND OCCUPATIONAL OPTOMETRY**

***Q.P. Code: 281635***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. Visual Information processing in Sports with one example.
2. Discuss in detail about steps involved in Visual task analysis for an Optometrist.

**II. Write short notes on:**

**(10 x 6 = 60)**

1. Ocular and visual effects of exposure to Pesticides.
2. Employee's State Insurance Corporation.
3. Accident Investigation, Risk assessment and Analysis.
4. Advantages of Contact lenses over spectacles in sports.
5. Prescribing Filters and Performance Sun Eyewear in Sports.
6. Chemical splash prevention and management.
7. Components of visual performance evaluation.
8. Role of Optometrist in Occupational Health.
9. Common ocular injuries in Badminton.
10. Enumerate the key factors to start an exclusive sports vision practice.

\*\*\*\*\*

**THE TAMIL NADU M.G.R. MEDICAL UNIVERSITY**

[AHS 1024]

**OCTOBER 2024**

**Sub. Code: 1635**

**M.OPTOM**  
**SECOND YEAR (From 2020-2021 onwards)**  
**PAPER V – SPORTS VISION AND OCCUPATIONAL OPTOMETRY**

*Q.P. Code: 281635*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. Explain the Visual Performance evaluation in sports with an example.
2. An IT professional who is 25 years old, currently doing work from home comes to the clinic with a complaint of digital eye strain. Mention in detail the assessments to be done, modifications to be recommended and management of the condition.

**II. Write short notes on:**

**(10 x 6 = 60)**

1. Explain about Perceptual Mechanism in Visual Processing.
2. Characteristics of good lighting.
3. Refractive compensation for a sportsperson.
4. Eye and Face personal protective equipment.
5. How to conduct the sports vision screening protocol?
6. Workmen's Compensation Act, (1923).
7. Safety and control measures of ocular injuries in sports.
8. Recognition, evaluation and control of hazards.
9. Infrared radiations- Sources, Effects and Prevention.
10. Types of visual demands with relevant examples.

\*\*\*\*\*

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[AHS 0525]**

**MAY 2025**

**Sub. Code: 1635**

**M.OPTOM**

**SECOND YEAR (From 2020-2021 onwards)**

**PAPER V – SPORTS VISION AND OCCUPATIONAL OPTOMETRY**

***Q.P. Code: 281635***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss in detail about steps involved in Visual task analysis for a cricketer.
2. Explain in detail about Personal Protective equipment related to Eye and Face.

**II. Write Short notes on:**

**(10 x 6 = 60)**

1. Food Safety and Standards Act (2006).
2. Enhancement Method of Coincidence-Anticipation Skills in Sports.
3. Explain the performance evaluation of the Vergence and Accommodative Function.
4. Prescribing for the Athletes.
5. Role of Optometrist in Occupational Health.
6. Types of Glare and how it can be managed.
7. Potential Hazards of Contact lens wear in the Workplace.
8. Peripheral awareness testing and improvement.
9. Medical Monitoring in Workplace.
10. Risk of Ocular Injuries and Management for football players.

\*\*\*\*\*

**THE TAMIL NADU M.G.R. MEDICAL UNIVERSITY**

**[AHS 1025]**

**OCTOBER 2025**

**Sub. Code: 1635**

**M.OPTOM**

**SECOND YEAR (From 2020-2021 onwards)**

**PAPER V – SPORTS VISION AND OCCUPATIONAL OPTOMETRY**

***Q.P. Code: 281635***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. Write in detail sports vision screening and report writing.
2. Explain in detail the types of occupational hazards.

**II. Write short notes on:**

**(10 x 6 = 60)**

1. Dynamic versus non dynamic sports – Explain with examples.
2. Write short notes on protective eye wear and sports.
3. Classify sports based on gaze angles and test to be performed to evaluate the same.
4. Write short notes on contrast levels on sports.
5. Write the guidelines for prescribing refractive compensation in athletes.
6. Biological monitoring in industry.
7. Impact of ionizing and non-ionizing radiations on health and eye.
8. Discuss the clinical features of dry eye? Enumerate and give solutions for at least 3 occupations wherein the dry eye will be a concern.
9. What measures are in place in the organised sector to ensure the health and well-being of employees?
10. Eyewash stations in industry.

\*\*\*\*\*