



**DNB Ophthalmology  
Question Bank  
Retina and Vitreous  
1999-2019**



**Eye Learn**

All about the Eye

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## RETINA, VITREOUS AND CHOROID

### A. Retinal vascular disorders

1. Anatomy
2. Diabetic retinopathy
  - a) NPDR
  - b) PDR
  - c) Macular edema
3. Retinal vein occlusion
  - a) BRVO
  - b) CRVO
4. Retinal artery occlusion
  - a) CRAO
  - b) OIS
5. Hypertensive retinopathy
6. Pregnancy related hypertensive retinopathy
7. ROP
8. Coats disease
9. Eales disease
10. Radiation retinopathy

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2. Investigations
  - a) Macular function tests
  - b) FFA
  - c) ICG
  - d) OCT
  - e) OCTA
3. Macular degeneration
  - a) ARMD
  - b) CNVM
  - c) IPCV
4. Vitreomacular interface disorders
  - a) ERM
  - b) Macular hole
5. CSR
6. Submacular hemorrhage
7. Macular surgeries
8. Other macular disorders

### C. Hereditary Fundus Dystrophies

1. Anatomy
  - a) RPE
  - b) Rods and cones
2. Investigations
  - a) VEP
  - b) ERG
  - c) EOG
  - d) Electronystagmometry
3. RP
4. Retinoschisis
5. Bionic eye

### D. Retinal Detachment

1. Anatomy



2. Investigations
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5. GRT
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  - c) ERD
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8. Vitreous substitutes
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  - b) Gas
  - c) Silicon Oil
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1. Intravitreal drugs
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  - b) Anti- VEGF agents
2. Retinal LASERS
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  - b) PDT
  - c) TTT

#### **F. Vitreous and choroid**

1. Vitreous
  - a) Vitreous hemorrhage
  - b) Terson's syndrome
  - c) PHPVAsteroid hyalosis
2. Choroid
  - a) Choroidal coloboma
  - b) Choroidal effusion

#### **G. Tumors of retina and choroid**

1. Retinoblastoma and DD of leukocoria
2. Vascular retinal tumors
3. Choroidal osteoma

#### **H. Trauma and endophthalmitis**

1. Trauma
2. IOFB
3. Siderosis bulbi
4. Endophthalmitis and Case



## A) RETINAL VASCULAR DISORDERS

### ANATOMY

#### RETINA

1. a) Draw a labelled diagram of cut section of the retina b) Describe the importance of Ganglion cells and Muller cells c) Explain how the rods and cones are distributed in the retina 5+3+2 D2019(GUWAHATI)
2. a) Anatomy and blood supply of retina. (4+4+2) J2019  
b) Anatomy and histology of macula.  
c) Enumerate macular function test.
3. Draw diagram (s) depicting the anatomy of retina. D2009
4. Name the layers of retina. Briefly outline the structure of retinal receptor cells. (2006)
5. Nerve fibre arrangement in Retina. (1999)

### RETINAL VASCULAR DISEASE

#### DIABETIC RETINOPATHY

6. a) Pathogenesis and sequelae of cotton wool spots and hard exudates in retina in diabetic retinopathy. (5) J2018
7. What are the 3 landmark studies in establishing management protocols in Diabetic retinopathy? What are the conclusions of each of them? [1+ (3+3+3)] D2013
8. Classify diabetic retinopathy giving features of each category and outline of management. 5+5 J2011
9. Role of glycosylated Hb, blood pressure and blood cholesterol in prevention and management of diabetic retinopathy. J2009
10. Relevance of various clinical trials in diabetes and eye-their contribution in current management of diabetes complications in the eye. (2008)
11. Describe the pathogenesis, classification, clinical picture and treatment of diabetic retinopathy (2003,2002, 2000, 1999)
12. Medical Management of Diabetic Retinopathy. (2001)

#### NPDR

13. a) Investigations and assessment of a case of long-standing diabetes with moderate non-proliferative diabetic retinopathy with clinically significant macular edema. b) How will you manage such a case? (4+6) J2015

#### PDR

14. Ocular management of a 50-year-old diabetic patient including medical, surgical and Laser treatment who has 3/60 vision and proliferative diabetic retinopathy in both eyes. (10) J2019
15. A 65-year-old diabetic man presents with painless diminution of vision with vitreous haze. How will you investigate and treat him? (5+5) J2016
16. Indications and contraindications of Intravitreal Avastin in PDR. (2010)
17. Discuss the Indications of Vitrectomy in a Patient with Longstanding Diabetes Mellitus. How will you deal with concurrent cataract? (2007)
18. Discuss the management of a diabetic patient with evidence of proliferative diabetic retinopathy and advanced cataract. (2006)
19. Etiopathogenesis of neovascularization of iris, its impact and management. (2004,2001)
20. Etiopathogenesis of neovascularization of retina, its impact and management. (2002)

#### MACULAR EDEMA

21. Diagnosis and management of non-resolving diabetic macular edema. (5+5) D2017
22. Pathogenesis, clinical features, diagnosis and management of various types of diabetic macular edema. (2+2+2+4) J2017
23. a) Pathogenesis of diabetic macular edema. b) Various modalities of treatment available for treatment of diabetic macular edema. (5+5) J2016
24. Discuss the role of Lasers in diabetic macular edema. Outline complete plan of management in severe diabetic macular edema. What is the role of newer Lasers in management of diabetic macular edema? (5+2+3) D2014
25. Discuss clinical features, classification, investigations and management of diabetic macular edema. (3+2+2+3) D2013
26. How you will diagnose diabetic macular edema? Discuss its investigation and management. (2+3+5) J2013
27. Define clinically significant macular edema, high risk PDR and management of these conditions. D2012,2000
28. Discuss etiology, clinical features and management strategies for diabetic macular edema (3+3+4) D2011
29. Classify diabetic macular edema and methods to classify it and its clinical relevance. D2010
30. Management of diffuse diabetic macular edema with visual acuity less than 6/60 in both eyes. D2009
31. Define clinically significant macular edema in diabetic retinopathy. Discuss its pathophysiology and management. (2008)



32. Cystoid macular edema: pathophysiology, diagnosis and treatment. (2006,2005)
33. Write on diabetic maculopathy. (2003)

### RETINAL VEIN OCCLUSIONS

34. Clinical features, diagnosis and management of retinal vein occlusions. (2+3+5) D2016
35. Management of macular edema following retinal vein occlusion. (10) D2015
36. What is the role of intraocular corticosteroids in retinal vein occlusions? Discuss the findings of SCORE and Posurdex trial in venous occlusions. [4+(3+3)] D2013

### CRVO

37. Etiopathogenesis, clinical features, investigation and management of central retinal vein occlusion. (2+2+2+4) J2017
38. Write down management and complications of ischemic central retinal vein occlusion. J2009
39. CRVO- Changing trends in management. (2005)
40. Discuss the management of central retinal vein occlusion (CRVO). (1999)

### BRVO

41. a) CF of early & late branch vein occlusion b) Results of important trials in management of BRVO 4+(3+3) J2018
42. Describe clinical features, etiology, investigations and various modalities of management in branch retinal vein occlusion. J2012
43. Clinical signs and management of branch vein occlusions. D2010
44. Management of branch retinal vein occlusion. D2009,2005

### RETINAL ARTERY OCCLUSIONS

#### CRAO

45. Etiopathogenesis, clinical features, investigations and management of central retinal arterial occlusion. 2+2+3+3 D2017
46. Types of retinal artery obstructions, DD and its causes and management. 5+5 J2011,2004

#### OIS

47. Ocular ischemic syndrome. Describe clinical features, etiology, differential diagnosis & management. (2008)

### HYPERTENSIVE RETINOPATHY

48. Hypertensive retinopathy. J2010,2002
49. Describe features of Hypertensive Retinopathy. D2009
50. Classification of hypertensive retinopathy. (2000)

### PREGNANCY RELATED HTN RETINOPATHY

51. Pathogenesis, clinical features, diagnosis and management of different grades of retinopathy in pregnancy induced hypertension. (2+2+3+3) D2017
52. A 34-year-old pregnant lady presents with sudden bilateral loss of vision. What are the likely causes? How will you treat them? (5+5) D2015
53. Ocular changes in pregnancy induced hypertension. (2005)

### ROP

54. Risk factors, classification and management of Retinopathy of Prematurity (ROP). (2+3+5) D2019
55. Etiology, evaluation, classification and management of retinopathy of prematurity. (2+2+3+3) D2017
56. Risk factors, classification and management of retinopathy of prematurity. (2+4+4) D2016
57. Describe the clinical characteristics and staging of retinopathy of prematurity (ROP). Write the criteria for its screening with management principles. D2012
58. Describe staging, risk factors and outline management principles of retinopathy of prematurity. (4+2+4) D2011
59. How is retinopathy of prematurity classified indicating the indications & principles for therapy? (10) J2011
60. Retinopathy of prematurity. J2010
61. Management of retinopathy of prematurity. D2009
62. Screening of a case of retinopathy of prematurity. J2009



### **COAT'S DISEASE**

63. Clinical features, differential diagnosis and management of a case of Coat's disease. (2+4+4) J2015

### **EALES DISEASE**

64. Describe etiology, clinical features and management of Eales disease. (2+4+4) D2011

### **RADIATION RETINOPATHY**

65. Radiation Hazards in the eye. (2001)

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## B) ACQUIRED MACULAR DISORDERS

### ANATOMY

66. a) Anatomy and development of the macula. b) Different zones of macula and their clinical importance. c) Enumerate the macular function tests. [4+(2+2) +2] J2015
67. Discuss the anatomy of macula. Enumerate relevant points of difference of retinal anatomy at macula and peripheral retina. J2012
68. Describe anatomy of macula of retina. Support your answer with suitable diagrams. (10) D2011

### INVESTIGATIONS

#### MACULAR FUNCTION TEST

69. How will you evaluate visual function in a patient with opaque media? (10) D2011
70. Various macular function test. J2010
71. Macular function tests. D2009
72. Discuss recent advances in assessment of retinal functions. (2003)
73. Describe the assessment of macular functions in case of opaque media. (2002)

#### FFA

74. a) Causes of hyperfluorescence and blocked fluorescence in Fluorescein Angiography b) Fluorescein Angiography features in CSR (5+5) J2018
75. Discuss the immediate management of a 60-year-old diabetic patient who has collapsed after injection of dye during FFA. J2012
76. Fluorescein angiography - principle and clinical application. (2008,2003,2000)

#### ICG

77. Comment on Indo cyanine green (ICG) angiography and its diagnostic use. (2005, 2003, 2003, 2001,1999)

#### OCT

78. Note on OCT angiography, Mechanism of action, algorithm used, clinical applications, advantages and limitations (10) October 2017 FAT
79. a) Principle of optical coherence tomography. b) Indications of use of above modality in different ocular conditions. c) Recent advances in OCT. (2+5+3). J2017
80. What is OCT? What are its advantages over conventional imaging? Name the conditions where it helps in precise diagnosis? (2+6+2) J2016
81. Enumerate the uses of optical coherence principle in Ophthalmology. What equipments are based on this principle and their advantages? 5+5 D2015
82. What are the recent advances in choroidal assessment on OCT? In which situations has it been applied? 7+3 D2015
83. Discuss the principles of optical coherence tomography (OCT). What are the types of OCT? Mention indications of its use. (4+2+4) D2014
84. What is the principle of Optical Coherence Tomography? What are the types of OCTs available? What are the diagnostic and therapeutic issues of OCT in management of macular pathology? 2+2+ (3+3) D2013
85. What is the principle of Optical Coherence tomography? What are its uses in corneal and retinal diseases? (2+4+4) J2013
86. Method of assessment of macular thickness. J2010
87. Role of OCT in retinal disease, diagnosis and management. (2010, 2007, 2006, 2005)

#### OCTA

88. OCTA - Principle and clinical applications. (5+5) D2019

### MACULAR DEGENERATION

89. Clinical Picture of hereditary macular degeneration and its mode of inheritance. J2009
90. Pathology of various age-related macular lesions. 10 J2016

### ARMED & CNVM

91. Describe management options for a 60-year old patient suffering from age related macular degeneration with visual acuity of 3/60 in both eyes. Discuss options for visual rehabilitation of patient. (5+5) J2019
92. Pathology of dry and wet age-related macular degeneration. (5+5) D2014



93. Describe the clinical features and clinicopathologic correlation of age-related macular degeneration (ARMD). Describe the role of various modalities in the management of ARMD. D2012
94. Causes, pathogenesis and principles of management of choroidal neovascular membrane (CNVM). (3+3+4) J2011, 2003,2001,1999
95. Describe MARINA & FOCUS Trails in the management of Wet ARMD. J2009

#### **IPCV**

96. Clinical features, diagnosis, differential diagnosis and management of idiopathic polypoidal choroidal vasculopathy. (2+2+2+4) D2016

#### **VITREOMACULAR INTERFACE DISORDERS**

##### **ERM**

97. a) What is an epiretinal membrane (ERM)? b) Causes of ERM and their management. [2+(4+4)] J2015

##### **MACULAR HOLES**

98. a) Pathophysiology, evaluation and management of full thickness macular hole. b) Factors prognosticating the treatment outcome. (7+3) D2019
99. Macular hole- its causes, grading & management (3+3+4) J2018
100. Write the causes, clinical features, diagnosis and surgical management of macular holes. D2012
101. Etiology, methods of evaluation and management of macular hole. (3+3+4) D2017
102. a) What are the causes of macular hole? b) How will you investigate, prognosticate and manage a case of Idiopathic macular hole? 2+(3+2+3) J2016
103. Macular Hole-classifications, stages, etiopathogenesis. Briefly enumerate the various investigations to confirm and prognosticate macular hole (2003,2002,2001,1999)

##### **CSR**

104. What are the current management options available for a case of chronic central serous chorioretinopathy? (10) J2019
105. A patient present with central unilateral metamorphopsia. Discuss differential diagnosis, evaluation and management of such a case. (3+3+4) D2018
106. Recent advances in diagnosis, pathogenesis and management of central serous retinopathy. (2+4+4) D2015,2003,2000

##### **SUB-MACULAR HEMORRHAGE**

107. Evaluation and management of traumatic sub-retinal hemorrhage over the macula. (10) D2018

##### **MACULAR SURGERIES**

108. Indications, advantages and disadvantages of internal limiting membrane (ILM) peeling in vitreoretinal surgery. (2+4+4) J2015
109. Macular Translocation. (2004)
110. Recent advances in management of macular diseases. (2002)

##### **OTHER MACULAR DISORDERS**

111. Abiotrophy of Retina. (2007)
112. Chloroquine Retinopathy. (2005)
113. Inherited macular disorders. (2002)
114. Ocular side effects of systemically administered drugs used for malaria. (2000)



## C) HEREDITARY FUNDUS DYSTROPHY

### ANATOMY

#### RPE

115. Anatomy, biochemical composition and physiological roles of retinal pigment epithelium. (4+2+4) J2016  
116. Pigment epithelium and its importance in retinal integrity. (2000)

#### RODS AND CONES

117. a) Detailed structure of rods and cones b) Their distribution over the retina c) Implications in the vision quality with rods and cone dysfunction (6+2+2) J2018  
118. a) Explain with diagram anatomy of layers of retina. b) What are the differences between rods and cones? c) What is the importance of IS-OS junction? (10) October 2017 FAT  
119. a) Describe in brief the embryological evolution of retina? b) What are the differences between rods and cones? c) What is the importance of IS/OS junctions? J2014  
120. Discuss physiology of visual perception. (2008)  
121. Physiological Basis of Night Vision. (2005)  
122. Physiology of Dark Adaptation. (2007)

### INVESTIGATIONS

#### VEP

123. a) Genesis of visual evoked potential (VEP).  
b) What are the types of VEP and enumerate the conditions for assisting in diagnosis and management of the conditions? [3+(2+2+3)] D2015  
124. What is VEP? What are the types of VEP? What is the role of VEP in modern clinical practice? What are its limitations? [(2+2+4+2)] D2014  
125. Write short note on Visual Evoked Potential. (2006) (2002)

#### ERG & EOG

126. a) Electrophysiological basis of Electroretinography (ERG) and Electro-oculography (EOG). (5+5) D2018  
b) Clinical applications of ERG and EOG  
127. a) Principles, role and uses of ERG. b) Multifocal ERG and its importance. [(2+3+3) +2] J2015  
128. What is ERG? Mention various types of ERG and their uses in ophthalmology. D2010  
129. Describe electroretinography. D2009, 2003

#### ELECTRONYSTAGMOGRAPHY

130. Electronystagmography. (1999)

### RP

131. Discuss the molecular genetics, clinical features, tests of visual functions in typical Retinitis Pigmentosa. 2+4+4 D2013

### RETINOSCHISIS

132. Discuss clinical features and diagnostic tests to differentiate between retinoschisis and retinal detachment. D2012  
133. What is the difference between retinoschisis and retinal detachment? Discuss the various types of retinoschisis and its management. 3+(4+3) D2013  
134. What are the points of differentiation between retinal detachment and retinoschisis? 5 October 2017 FAT  
135. Differentiating features between Retinoschisis and Rhegmatogenous Retinal Detachment. 10 D2016

### BIONIC EYE

136. a) What is ARGUS II implant, its indications and success in clinical cases? b) What are the basics of selective laser trabeculoplasty? 5+5 D2019(GUWAHATI)  
137. What is a Bionic Eye? What are the principles of its working and enumerate its indications? 3+(5+2) D2016  
138. Development of Electronic Eye. What are the limitations? (2005)



## D) RETINAL DETACHMENT

### ANATOMY

139. Discuss anatomy and physiology of vitreous. Write a brief note on etiopathogenesis of posterior vitreous detachment. (4+4+2) D2011
140. Describe normal attachment of vitreous. J2009
141. Briefly describe the surgical anatomy of vitreous & its role in pathogenesis of retinal detachment. (2006)

### INVESTIGATIONS

#### USG

142. Ultrasonic Bio-microscopy: Principles & Uses. (2005)
143. B-Scan-Indications and utility. (2002)
144. Discuss the role of ultrasonography in ophthalmology. (2001) (1999)
145. Role of Doppler in Ophthalmology. (2001)

### PERIPHERAL RETINAL DEGENERATIONS

146. Describe the predisposing peripheral retinal degenerations for retinal detachment and give indications and methods of prophylaxis. (5+5) J2011
147. Name the peripheral retinal degenerations and illustrate with diagrams. (2006)

### RETINAL TEARS AND BREAKS

148. A 21-year-old myopic male presented with a total retinal detachment in the right eye, a single causative break at 11 o'clock anterior to the equator and no PVR.
- a) What are the surgical options for management of retinal detachment?
- b) Explain clearly why you would recommend your chosen surgical option and outline the surgical steps. (5+5) J2019

### GRT

149. a) Clinical features and differential diagnosis of various types of retinal detachment. b) Management of giant retinal tear. (6+4) J2019
150. Write clinical features and management of retinal detachment with giant retinal tear in a 22-year-old boy with Marfan's Syndrome (3+7) J2013
151. How do you classify giant retinal breaks? Describe its etiology, pre-operative evaluation and principles of management. (2+2+2+4) D2011, 2008, 1999

### RETINAL DETACHMENT

#### RRD

152. Management of rhegmatogenous retinal detachment. J2010
153. Anatomical and functional prognostic factors in management of rhegmatogenous retinal detachment. J2009

#### TRD

154. Describe the causes, investigations and management in a case of "tractional retinal detachment". (3+3+4) D2014
155. Classification of PVR. (2004)

#### ERD

156. Etiopathogenesis and management of exudative retinal detachment. (5+5) D2017
157. Mention a differential diagnosis of various etiologies of exudative retinal detachment. (5) October 2017 FAT

### RETINAL DETACHMENT SURGERIES

#### VITRECTOMY

158. a) What are the advantages and disadvantages of 25G or Smaller Gauge Vitrectomy Surgeries b) What are the different vitreous substitutes used in Retinal Surgeries, their advantages and disadvantages? [(2+2) + (3+3)] D2019 (GUWAHATI)
159. Write down the advantages and disadvantages of various methods of retinopexy like laser and cryopexy. Write down how you are going to do. D2010
160. Various vitreoretinal procedures. J2010
161. Factors influencing sclerotomy, sites for vitrectomy. J2009



### SRF DRAINAGE

- 162.a) What is pneumatic retinopexy and its indications? b) Describe complications of scleral buckling. c) Indications and complications of subretinal fluid drainage. (3+3+4) D2019 (GUWAHATI)

### BUCKLE

163. Describe complications of scleral buckling. (3) D2019 (GUWAHATI)  
164. What are the principles of scleral buckling surgery for retinal detachment? What are its modern-day indications and problems? [4+(3+3)] D2015  
165. Advantages and disadvantages of scleral buckling surgery versus pars plana vitrectomy for RD. (5+5) J2011  
166. Principles of RD buckling surgery. D2009

### VITREOUS SUBSTITUTES

167. What are the different vitreous substitutes used in Retinal Surgeries, their advantages and disadvantages? (3+3) D2019 (GUWAHATI)  
168.a) Indications and procedure for use of various tamponading agents in retinal surgery.  
b) Advantages and disadvantages of tamponading agents used in retinal surgery. (5+5) D2018  
169. Intraocular tamponade used in vitreoretinal surgery. D2009  
170. Discuss role of silicone oil and expandable gases in the management of retinal detachment. J2012  
171. Chemical adjuvants, internal tamponading agents & sustained drug delivery device in Vitreo-retinal surgery. (2008)

### AIR- PNEUMATIC RETINOPEXY

172. What is pneumatic retinopexy and its indications? (3) D2019 (GUWAHATI)  
173. Pneumatic retinopexy-indications, Contraindications, steps of procedure & Complications. (2005,2003)

### GASES

174. Use of intravitreal gases in retinal detachment surgery. (2000)

### SILICON OIL

175. Discuss the role of Silicon oil in VR surgery. Describe its complications and method of removal. [4+(4+2)] D2017  
176. Complications of Silicon Oil and their management. (2007)

### PFCL

177. Name various vitreous substitutes. Write about PFCL (perfluorocarbon liquids). (2006)  
178. Discuss the role of liquid perfluorocarbons in vitreoretinal surgery. (2004) (2003) (1999)



## E) DRUGS & LASER

### INTRAVITREAL DRUGS

- 179.a) Intravitreal implants & indications for use b) What is possible side effects (7+3) J2018  
180.Enumerate the routes of drug delivery in eye. Mention four commonly used intravitreal drugs with their dosages and indications. D2012  
181.Intravitreal injection. J2010  
182.Intraocular drug implants – principal, types, uses, disadvantages. J2009

### INTRAVITREAL STEROIDS

- 183.Role of intra-vitreous steroid injections. (5) D2019 (GUWAHATI)  
184.What are the types, indications and complications of intraocular steroids? (2+4+4) D2013  
185.Name few intraocular steroid implants approved by FDA and mention its indications, contraindications and side effects. D2010  
186.Indications, complications of intravitreal steroids. J2009

### INTRAVITREAL ANTI-VEGF AGENTS

- 187.a) Bevacizumab — Mechanism of action, indications and differences with other drugs of same group. b) Discuss in brief CATT 1 and CATT 2 trials. (6+4) D2019  
188.a) What are various types of anti-VEGF available? b) What are their pharmacological features? C) What is their role in retinal disorders? d) What are their complications? (10) October 2017 FAT  
189.What is CATT trial What were the objectives, conclusions, design & implications of trial in respect of anti-VEGF agents? (10) October 2017 FAT  
190.Classify and mention briefly about different anti-VEGF agents and their uses in ophthalmology. (2+2+6) J2017  
191.a) What are the various Anti VEGF intra-vitreous agents being used? b) What are the indications for their use and highlight their side effects? [3+(3+4)] D2016  
192.a) What is VEGF-Trap? b) What are its advantages over the current anti-VEGF agents? (5+5) J2016  
193.Discuss the CATT trial. What were the objectives, design, conclusions and implications of the trial in respect of anti-VEGF agents? [2+(2+2+2+2)] D2014  
194.a) What are the various types of anti-VEGF agents available?  
b) What are their pharmacological features?  
c) What is their role in retinal disorders?  
d) What are their complications and Limitations? J2014  
195.Indications and contraindications of Intravitreal Avastin in PDR. D2010  
196.VEGF - Define, source in eye, their role in disease and their modulation. (2008)

### RETINAL LASER

#### MICROPULSED RETINAL LASER

- 197.What is micropulsed retinal laser? What is the change in concept of application of lasers in a micropulsed design and what are its advantages? [ 3+(3+4)] J2017

#### PDT

- 198.Write in brief about PDT (10) October 2017 FAT  
199.Principles, technique, indications, and complications of photodynamic therapy. (2+3+3+2) D2015

#### TTT

- 200.TTT (2004)



## F) VITREOUS AND CHOROID

### VITREOUS

#### VITREOUS HEMORRHAGE

201. Discuss the differential diagnosis of vitreous hemorrhage. Also discuss investigations and management. (2008) (2005) (2002)

#### TERSON'S SYNDROME

202. a) What is Terson's Syndrome?  
b) What are its Clinical Features?  
c) Discuss its differential diagnosis.  
d) Describe the complications and their management J2014

#### PHPV

203. Write brief note on Etiopathogenesis & management of a case of persistent primary vitreous. (10) October 2017 FAT  
204. a) Development of vitreous. b) What is persistent hyperplastic primary vitreous? c) Diagnostic features and differential diagnosis of persistent hyperplastic primary vitreous. [3+2+(3+2)] D2016  
205. a) Embryology of development of vitreous.  
b) How does one diagnose and manage PHPV? [4+(2+4)] D2015

#### ASTEROID HYALOSIS

206. Write short note on Asteroid hyalosis. (2006)  
207. Asteroid hyalosis. (2000)

### CHOROID

#### CHOROIDAL COLOBOMA

208. a) What is optic disc pit? What is its latest treatment? What is Ida Mann classification of fundal coloboma (3+3) +4 D2019 (GUWAHATI)  
209. Describe briefly anatomy of choroid. Discuss the developmental basis of choroidal coloboma. Classify types of choroidal colobomas. D2012

#### CHOROIDAL EFFUSIONS

210. Classification and diagnosis of choroidal effusions. 5+5 D2016



## G) TUMORS OF RETINA AND CHOROID

### RB/LEUKOCORIA

- 211.a) Current concepts in management of retinoblastoma. (5) D2019 (GUWAHATI)
- 212.a) Genetics of retinoblastoma. b) Histopathology of retinoblastoma (5+5) D2019
- 213.A 10-year-old child with complaints of blurring of vision and whitish opacities in both eyes is brought to OPD. Discuss differential diagnosis and management of this case. (5+5) J2019
- 214.a) Intra-arterial chemotherapy for retinoblastoma. b) Uses of botulinum toxin in the eye. (5+5) J2019
- 215.Indications, procedure, advantages and disadvantages of chemo-reduction for retinoblastoma. (2+3+5) D2018
- 216.Newer advances in management of 2 DD unilateral retinoblastoma in the presenting eye and when presenting in fellow eye in bilateral retinoblastoma. (5+5) J2018
- 217.a) Management of a 2-disc diameter raised retinoblastoma in a 3-year-old child. b) Recent advances in the management of retinoblastoma. (7+3) J2017
- 218.A 6-year-old boy presents with unilateral leukocoria. What is the differential diagnosis and describe management of its most common cause? (4+6) J2016
- 219.Discuss the differential diagnosis of retinoblastoma. Discuss the factors which affect the genetic counseling for patients of retinoblastoma. J2014
- 220.Give the international classification of retinoblastoma. Discuss the management of retinoblastoma with recent advances in detail. D2012
- 221.Discuss differential diagnosis of Leukocoria. (10) D2011
- 222.Describe the common causes of leukocoria. What is retinoblastoma gene and inheritance? (8+2) J2011
- 223.Write down modern histopathology classification of Retinoblastoma and give its clinical significance and effect on management. D2010.
- 224.Write down prevalence of various forms of retinoblastoma. How will you counsel a parent with one child having a retinoblastoma? D2010
- 225.Pathology of retinoblastoma J2010, D2009
- 226.Genetics and inheritance of retinoblastoma, counseling. J2009,2006,2005
- 227.Discuss the differential diagnosis of leukocoria in an eight months old child. Describe in brief various modalities for treatment of retinoblastoma. (2003)
- 228.Radiological findings in Retinoblastoma. (1999)

### Vascular retinal tumors

- 229.What are the various vascular retinal tumors? Briefly discuss presentation, diagnosis and management of any 2 of them. [2+(4+4)] D2015

### Choroidal melanoma

- 230.Classification, clinical features, diagnosis and management of choroidal melanoma. (2+2+2+4) D2019, J2017
- 231.a) Pathology of choroidal melanoma. b) What are its adverse prognostic factors? 5+5 D2015
- 232.Pathology, different diagnosis, adverse prognostic factors and non-surgical management of a case of choroidal melanoma. (2+2+2+4) J2015
- 233.a) Enumerate the differential diagnosis of a pigmented iris lesion. b) Write a short note on histopathology of choroidal melanoma. J2014
- 234.Describe the pathology of "malignant melanoma of choroid". How does the pathology influence the prognosis? 10 D2013
- 235.Write about clinical presentation, investigations, histopathology and management of choroidal melanoma. (2+3+2+3) D2011



## H) TRAUMA AND ENDOPHTHALMITIS

### TRAUMA

- 236.a) Enumerate the various consequences of a closed globe injury by a blunt object.  
b) How would you distinguish between open globe and closed globe injury? (6+4) J2019
237. Evaluation and management of a case presenting with iridodialysis. (4+6) D2018
- 238.a) Posterior segment complications in a case of blunt trauma to the eye.  
b) How will you manage them? (5+5) J2015
239. Discuss all the possible ocular injuries with a cricket ball to the eye in 20-year-old male. Give management of traumatic retinal disorders. (5+5) J2013
240. Classify globe injuries and describe the injuries in the anterior segment after a closed globe injury. (10) J2011
241. Write down posterior segment complication of blunt trauma which can affect vision. D2010
242. Classify globe injuries and describe the injuries in the anterior segment after a closed globe injury (2009)
243. Classify ocular injuries. Outline the factors responsible for onset of sympathetic ophthalmitis. (2006)
244. Choroidal injuries in blunt ocular trauma. (2001)

### IOFB

245. Discuss the management of metallic intraocular foreign body. What are the ophthalmological effects if it is not removed? (5+5) D2013
246. Discuss clinical features, investigations, sequelae and management of intraocular metallic foreign body. J2012
247. Diagnostic challenges of retained intraocular foreign body. (2005)
248. Give the clinical diagnosis of retained intraocular foreign body & its management. (2003)
249. Localization of intraocular foreign body. (2000) (2000) (1999)

### SIDEROSIS BULBI

250. Siderosis bulbi CF, Erg changes (7+3) J2018
251. Localization, management & complications of retained intraocular copper foreign body. (2008)
252. Siderosis Bulbi - Clinical picture management of retained intraocular metallic foreign body. Surgical steps of retained retinal foreign body removal. (2008)
253. Siderosis Bulbi. (2006)

### ENDOPHTHALMITIS

254. Discuss etiopathogenesis and current concepts in management of acute post-operative endophthalmitis (4+6) D2019(GUWAHATI)
- 255.a) Investigations and management of cluster endophthalmitis. b) Differences between TASS and endophthalmitis. (6+4) D2019
- 256.a) Enumerate the microbiological techniques available to diagnose and identify the cause of intraocular infection. b) Discuss the advantages and disadvantages of each technique. (5+5) J2019
257. Clinical features, causes, evaluation and management of a case endophthalmitis, six weeks after cataract surgery. (2+2+3+3) D2018
258. Enumerate findings of endophthalmitis vitrectomy study. Classify endophthalmitis on basis of etiology. (10) October 2017 FAT
259. Management of a case of suspected endophthalmitis 8 days following uncomplicated cataract surgery. (10) October 2017 FAT
260. Clinical features, laboratory investigations and management of post cataract surgery endophthalmitis. (3+2+5) J2017
- 261.a. Discuss the microbiological profile in infective endophthalmitis with their antibiotic sensitivity profile. b. Give doses and combinations of preferred intravitreal antibiotics. c. What is the normal ocular flora? (3+3+4) D2014
262. What is endophthalmitis? What are the precautions to be taken to prevent postoperative endophthalmitis? (2+8) D2013
263. Discuss endophthalmitis-vitrectomy study with respect to aim, design and outcomes. D2012
264. What are the common organisms causing endophthalmitis after cataract? Describe the principles of treatment. (5+5) J2011
265. Management of bacterial endophthalmitis D2009
266. Discuss in detail how to collect vitreous sample for microbiological studies in endophthalmitis. J2009
267. Clinical features, differential diagnosis and management of acute post-operative endophthalmitis. (2008,2006,2004,2000,1999)



## CASES

268. A 64-year-old individual presents with sudden profound unilateral loss of vision. Discuss etiology, evaluation and management. (3+2+5) D2018
269. Describe the approach to a 73-year-old male patient who complains of a profound unilateral loss of vision in one eye, followed by a similar loss on the other after 8 weeks. What is the diagnosis, clinical features, investigations and management of such a case? (2+3+2+3) D2015
270. Differential diagnosis and management of a 47-year-old female patient presenting with unilateral hazy vitreous. (5+5) D2015
271. a) Enumerate causes of unilateral profound painless loss of vision. b) How will you manage such a case in a 65-year-old male patient? (3+7) J2015
272. Investigations, diagnosis and management of a 40-year-old male patient presenting with unilateral central scotoma. (3+3+4) J2015
273. A 21-year-old myope (-2.5D) presented with sudden profound unilateral diminution of vision. Discuss the differential diagnosis, investigation and management. D2014
274. Discuss the differential diagnosis, investigations and management in a 22-year-old male with unilateral, profound and sudden diminution of vision. J2014
275. Discuss clinical features, differential diagnosis and management of metastatic endophthalmitis in a 15-year-old boy. (4+3+3) J2013
276. Approach to a patient who presented with sudden decrease in vision associated with pain and redness after phacoemulsification. J2010
277. Management of a case of pulmonary tuberculosis who developed sudden decrease of vision after one month of starting antitubercular therapy. (2009)
278. Describe three most ophthalmic emergencies requiring immediate management. D2009

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