

# **PATHOLOGY**

## **(THEORY)**

### **PAST PAPER QUESTIONS**

#### **1. CELL INJURY & ADAPTATION**

1. Write short note on hypertrophy. (04) (2<sup>nd</sup>A/2016)
2. What is apoptosis? Describe the mechanism of apoptosis. (04) (2<sup>nd</sup>A/2017, A/2022)
3. Define hyperplasia and hypertrophy and explain with examples. (05) (2<sup>nd</sup>A/2018)
4. Write short note on Metaplasia (03) (2<sup>nd</sup>A/2018)
5. What is apoptosis? Describe its mechanism and give examples. (05) (A/2019)
6. Write short note on Apoptosis (03) (A/2021,22)
7. What is necrosis? Describe its various types. (06) (A/2019,22)
8. What is pathological calcification? What are its types. Give examples. (10) (A/2015)
9. Define pathological calcification. What are its types. Briefly describe its types with examples (06) (2<sup>nd</sup>A/2017)
10. What is calcification and write down its types. (05) (2<sup>nd</sup>A/2018)
11. Write short note on dystrophic calcification (04) (A/2016,17,18,19,21,23) (2<sup>nd</sup>A/2022)
12. Define pathological calcification. What are its different types and explain with examples (10) (A/2021)
13. Define pathological calcification. Give examples. (06) (A/2022)
14. Write short note on causes of cell injury (03) (A/2015)
15. What is irreversible cell injury? Explain cytoplasmic and nuclear features of irreversible cell injury. (10) (2<sup>nd</sup>A/2016,23)
16. Write short note on irreversible cell injury (03) (A/2017,18)
17. Write short note on reversible cell injury (03) (2<sup>nd</sup>A/2017)
18. Write briefly about reversible cell injury. Describe morphological features in detail. (10) (A/2018)
19. What is cellular adaptation? Briefly describe its different types. (10) (A/2017,19)
20. Define reversible cell injury. Explain in detail its cytoplasmic and nuclear features. (10) (2<sup>nd</sup>A/2021)
21. Write briefly about irreversible cell injury. Describe morphological features in detail. (10) (2<sup>nd</sup>A/2022) (A/2023)
22. Write short note on pigmentation (04) (A/2015)
23. What is pigmentation? Briefly describe its different types. (10) (A/2016,19)
24. What is pigmentation? What are its different types? Give examples. (05) (A/2021)
25. Write short note on endogenous pigmentation. (03) (A/2017,18,19,21,22)
26. Write a short note on exogenous pigmentation. (03) (2<sup>nd</sup>A/2022) (A/2023)

#### **2. INFLAMMATION**

1. Write short note on chemotaxis (03) (2<sup>nd</sup>A/2018)
2. What is granulomatous inflammation? Draw and describe the granuloma in detail? (10) (A/2015,17)

3. Define inflammation and write down features of acute inflammation. Give four causes of chronic granulomatous inflammation. (10) (A/2020)
4. What is chronic inflammation? What are the cells of chronic inflammation? Explain morphological features of chronic inflammation. (10) (A/2016,19)
5. Define acute inflammation? Briefly describe different morphological patterns of acute inflammation. (06) (2<sup>nd</sup> A/2016)
6. Explain outcome of acute inflammation. (04) (2<sup>nd</sup> A/2016)
7. Name different chemical mediators of inflammation with their functions? (05) (A/2021,22) (2<sup>nd</sup> A/2017)
8. Explain morphological changes in acute inflammation. (05) (2<sup>nd</sup> A/2022) (A/2023)
9. Write short note on difference between transudate and exudate fluid. (03) (A/2015,16,18,19,21) (2<sup>nd</sup> A/2017,18,22)
10. What is difference between exudate and transudate fluid. (05) (2<sup>nd</sup> A/2022,23) (A/2023)
11. Write short note on granuloma (03) (A/2018,19,21,22) (2<sup>nd</sup> A/2016,17)
12. Define granuloma and write down three causes of granuloma. (05) (2<sup>nd</sup> A/2018)
13. Draw and label granuloma. Write down the causes of granuloma formation. (05) (A/2021)

### **3. HEMODYNAMIC DISORDERS**

1. What is thrombosis? What is the fate of thrombus? (05) (2<sup>nd</sup> A/2016,17)
2. Define infarction? What are its types? (05) (2<sup>nd</sup> A/2016)
3. What is thrombosis? What are different types of thrombus? Briefly describe. (10) (A/2017)
4. Define thrombosis and briefly discuss its types. (10) (2<sup>nd</sup> A/2018)
5. Write short note on thrombosis (04) (2<sup>nd</sup> A/2018)
6. Write short note on fate of thrombosis (03) (A/2021,2<sup>nd</sup> A/2022) (A/2023)
7. What is edema? What is its pathophysiology? Briefly describe. (10) (A/2015)
8. Define edema. What are the different causes of edema. (05) (2<sup>nd</sup> A/2017)
9. What is shock? Briefly describe its different types. (10) (A/2016) (6) (2<sup>nd</sup> A/2023)
10. What is shock? What are its different types? Briefly describe anyone. (10) (A/2019)
11. Define shock and write down its types. (05) (A/2020)
12. Enlist the factors contributing to the pathophysiology of septic shock. (05) (A/2020)
13. Write short note on causes of shock. (03) (A/2021)
14. What is shock? What are its different types? Briefly discuss. (05) (A/2022)
15. What is embolism? What are its different types? Briefly discuss. (05) (2<sup>nd</sup> A/2022,23) (A/2023)

### **4. NEOPLASIA / TUMORS**

1. Define neoplasia. Discuss in detail the spread of tumors. (2,8) (2<sup>nd</sup> A/2018)
2. Define neoplasia. Discuss in detail the features of malignant tumors. (10) (A/2020)
3. Draw cell cycle with different stages? (05) (A/2015)
4. Describe cells on the basis of division capacity. Draw cell cycle. (05) (2<sup>nd</sup> A/2017)
5. What is metastasis? Explain its different routes? Give examples. (05) (A/2015,19,21)
6. Write short note on metastasis. (03) (2<sup>nd</sup> A/2016) (04) (2<sup>nd</sup> A/2017)
7. Name different carcinogens with their specificity for tumor? (05) (A/2015)

8. Define malignant tumor. Briefly describe its features. (05) (A/2016) (2<sup>nd</sup> A/2017)
9. Nomenclature of malignant tumor? Give examples. (05) (A/2016,17) (4) (2<sup>nd</sup> A/2023)
10. Define benign tumor? What different are its features. (06) (2<sup>nd</sup> A/2016)
11. Nomenclature of benign tumor with examples? (04) (2<sup>nd</sup> A/2016,17)
12. Write down differences between benign and malignant tumor. (05) (A/2017,18,23) (2<sup>nd</sup> A/2022)
13. What is malignant tumor? Discuss its characteristics. (05) (A/2021)
14. What is metastatic calcification. What are its causes? Give examples. (4) (2<sup>nd</sup> A/2023)
15. Briefly discuss the features of benign tumor. (6) (2<sup>nd</sup> A/2023)

## **5. HYPERSENSITIVITY**

1. Define hypersensitivity reaction? Briefly describe its different type. (10) (A/2015)
2. Briefly describe cell mediated hypersensitivity reaction? (06) (A/2016,19)
3. Briefly describe antibody mediated hypersensitivity reaction? (05) (2<sup>nd</sup> A/2016)
4. Briefly describe immediate hypersensitivity reaction (Type I)? (06) (A/2017)
5. Describe antigen-antibody mediated hypersensitivity reaction (Type III). (05) (2<sup>nd</sup> A/2017)
6. What is type IV hypersensitivity reaction. (05) (A/2018,20,21,23) (2<sup>nd</sup> A/2022)
7. What is type III hypersensitivity reaction. (05) (A/2019,21,22)
8. Draw and label structure of antibody. (04) (A/2016,17)
9. What are the different types of antibodies? Write down their important features (05) (2<sup>nd</sup> A/2016,17)
10. Write short note on antibody types and structure. (04) (A/2019)
11. Enumerate different types of immunoglobulins and their properties. (07) (2<sup>nd</sup> A/2018)
12. Draw and label structures of immunoglobulin. (03) (2<sup>nd</sup> A/2018)
13. Briefly describe type II hypersensitivity reaction. (5) (2<sup>nd</sup> A/2023)

## **6. WOUND HEALING**

1. Write down the factors that affect the wound healing? (05) (A/2016,17,18,19,20,21,22) (2<sup>nd</sup> A/2023)
2. What are factors which can cause delay in wound healing? (05) (A/2020)
3. Explain secondary wound healing. (05) (A/2016,19)
4. Write short note on complications of wound healing (03) (A/2016,19)
5. Write down the complication of secondary wound healing? (06) (A/2017,18,21,23) (2<sup>nd</sup> A/2016,22)
6. What is healing by primary and secondary intension? (05) (A/2020)
7. Briefly discuss secondary intention wound healing. (05) (A/2021)
8. What are the differences between primary and secondary wound healing? (05) (A/2015,19,21,22) (2<sup>nd</sup> A/2017,16)