

Total No. of Questions: 3

Total No. of Printed Pages:2

Enrollment No.....



Faculty of Pharmacy
End Sem Examination May-2024
PY3CO08 Pathophysiology

Programme: B. Pharm.

Branch/Specialisation: Pharmacy

Duration: 3 Hrs.

Maximum Marks: 75

Note: All questions are compulsory. Internal choices, if any, are indicated. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1
- Define metaplasia with suitable example. 2
 - What is homeostasis? 2
 - Write about the different types of hypertension. 2
 - Discuss about atherosclerosis. 2
 - State the importance of iodide in thyroid hormone disorders. 2
 - What is sickle cell anaemia? 2
 - Discuss the clinical symptoms and diagnosis of Jaundice. 2
 - What are the causes of Osteoporosis? 2
 - Write the symptoms, causative organism of leprosy. 2
 - Define the term Gonorrhoea. 2

- Q.2
- Attempt any two:
- Define Acute inflammation. Explain the pathogenesis of acute inflammation. Add a note on the chemical mediators of inflammation. 10
 - Discuss the pathophysiology, causes and symptoms of congestive heart disease. 10
 - Explain the processes involved in healing of skin wounds in brief. 5
 - Discuss the pathophysiology of chronic obstructive airway diseases. 5

- Q.3
- Attempt any seven: Two questions from each section is compulsory.

Section - A

- Enlist various types of Anaemia. Write a note on iron deficiency anaemia. 5

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- Discuss pathophysiology of Alzheimer's disease. 5
- Write a note on risk factors and long-term complications of diabetes mellitus. 5

Section - B

- Explain in detail about the pathogenesis of cancer. 5
- Differentiate Ulcerative colitis and Crohn's disease. 5
- Write in brief pathogenesis of Gout and Arthritis. 5

Section - C

- Explain cause and pathogenesis of Tuberculosis. 5
- Describe pathophysiology and sign-symptoms of UTI. 5
- Explain briefly the pathogenesis and mode of transmission of AIDS. 5

P.T.O.

Marking Scheme

Pathophysiology (T) - PY3CO08 (T)

- Q.1**
- | | | |
|-------|--|----------|
| i) | Define metaplasia with suitable example.
Defination -1 Mark,
example- 1 Mark | 2 |
| ii) | What is homeostasis?
Defination - 2 marks | 2 |
| iii) | Write about the different types of hypertension.
Both types are of 2 marks. | 2 |
| iv) | Discuss about atherosclerosis.
Dicussion - 2 maks | 2 |
| v) | State the importance of iodide in thyroid hormone disorders.
Two importance of - 2 mark | 2 |
| vi) | What is sickle cell anemia?
Defination - 2 marks | 2 |
| vii) | Discuss the clinical symptoms and diagnosis of Jaundice.
clinical symptoms- 1mark, diagnosis- 1mark | 2 |
| viii) | What are the causes of Osteoporosis?
Four causes - 2 marks (0.5 each) | 2 |
| ix) | Write the symptoms, causative organism of leprosy?
Symptoms-1 mark, name of causative organism- 1mark | 2 |
| x) | Define the term Gonorrhea.
Defination - 2 marks | 2 |
- Q.2**
- Attempt any two:
- | | | |
|------|--|-----------|
| i. | Define Acute inflammation. Explain the pathogenesis of acute inflammation. Add a note on the chemical mediators of inflammation.
Defination - 2 marks, pathogenesis - 4 marks, note on chemical mediators - 4 maks. | 10 |
| ii. | Discuss the pathophysiology, causes and symptoms of congestive heart disease.
Pathophysiology- 4 marks, causes - 2 marks, symptoms - 2 marks. | 10 |
| iii. | (a) Explain the processes involved in healing of skin wounds in brief.
Process- 5 marks | 5 |
| | Discuss the pathophysiology of chronic obstructive airway diseases.
Pathophysiology- 5 marks | 5 |
- Q.3**
- Attempt any seven: Two questions from each section is compulsory.
Attempt any seven: Two questions from each section is compulsory.

P.T.O.

[2]

Section - A

- | | | |
|------|--|----------|
| i. | Enlist various types of Anemia and write a note on iron deficiency anemia.
Types of anemia- 2.5 marks, Note - 2.5 marks | 5 |
| ii. | Discuss pathophysiology of Alzheimer's disease.
Discussion pathophysiology- 5 marks | 5 |
| iii. | Write a note on risk factors and long term complications of diabetes mellitus.
Risk Factors :- 2 Marks
Discussion :- 3 Marks | 5 |

Section - B

- | | | |
|-----|--|----------|
| iv. | Explain in details about the pathogenesis of cancer.
Explanation- 5 Marks | 5 |
| v. | Differentiate Ulcerative colitis and Crohn's disease.
5 five differences - 5 Marks | 5 |
| vi. | Write in brief about pathogenesis of Gout and Arthritis.
Note on Gout - 2.5 Marks
Arthritis- 2.5 Marks | 5 |

Section - C

- | | | |
|-------|--|----------|
| vii. | Explain cause and pathogenesis of Tuberculosis.
Causes - 2 Marks
Pathogenesis 3 Marks | 5 |
| viii. | Describe pathophysiology and sign-symptoms of UTI.
sign-symptoms - 2 Marks
pathophysiology- 3 Marks | 5 |
| ix. | Explain briefly the pathogenesis and mode of transmission of AIDS
Pathogenesis- 3 Marks
mode of transmission 2 Marks | |
