

Printing Page (s) : 1

02/01/25

(SVSU) 2022-2023/R (B)

Paper Code : MD-111

Enrollment No.

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**M.D. PATHOLOGY
PAPER 1**

(Basic sciences as applied to the Pathology)

[Time : 3:00 Hours]

[Max. Marks :100]

Note : Attempt all questions. Draw well labeled diagrams wherever necessary.

Q1. Long Question.

[20]

What is hypersensitivity. Classification of hypersensitivity reactions. Discuss in the detail the mechanisms for Type III hypersensitivity reaction.

Q2. Short Notes:

[4x10=40]

- (a) Thyroid Function tests.
- (b) Genomic imprinting in brief.
- (c) Diseases associated with ionizing radiation exposure.
- (d) Microbial carcinogenesis.

Q3: Discuss briefly:

[4x10=40]

- (a) Stem Cell- Role in Healing and Repair.
- (b) Intrinsic pathway for apoptosis.
- (c) Obesity pathogenesis.
- (d) Cell cycle.

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M D-Pathology

Paper –II

(Systemic Pathology- Surgical and Cytopathology)

[Time: 3:00 Hours]

[Max. Marks: 100]

Note: Attempt all questions. Draw well labeled diagrams wherever necessary.

1. (Long Essay)

- (a) Enumerate the various categories of Bethesda system in thyroid cytology reporting and their implications in treatment. [15]
- (b) Discuss the pathophysiology, molecular steps and prognostic factors associated with colonic carcinoma. [15]

2. (Short Note Essay)

- (a) Discuss the molecular profile of breast cancer and its therapeutic implications [10]
- (b) Describe the new entities as per revised WHO 2022 classification of renal tumors [10]
- (c) Enumerate the various molecular aberrations evaluated in case of lung cancer and discuss their relevance in tumor management. [10]

3. (Short Notes)

- (a) Hyper trophic cardiomyopathy. [10]
- (b) Role of IHC in prostatic carcinoma. [10]
- (c) Molecular classification of endometrial carcinoma [10]
- (d) Pathological and clinical features osteoarthritis. [10]

Enrollment No.																			
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M D - Pathology

Paper – III

(Hematology, transfusion medicine and laboratory)

[Time : 3:00 Hours]

[Max. Marks : 100]

1. (Long Essay)

(a) Discuss normal Iron metabolism. Write in detail about the laboratory diagnosis of Microcytic Hypochromic anemia. [15]

(b) Discuss the Recent updates in Myelodysplastic Syndrome. [15]

2. (Short Note Essay)

(a) Significance of mixing studies in coagulation disorder. [10]

(b) Laboratory approach in a case of Pancytopenia. [10]

(c) Quality control in hematology. [10]

3. (Short Notes)

(a) Hemovigilance. [10]

(b) TRALI. [10]

(c) Flowcytometric approach to chronic lymphoproliferative disorders. [10]

(d) Targeted therapy in haematologic malignancies. [10]

08/01/25

Printing Page (s): 1

SVSU/2024/R-C

Paper Code:MD-114

Enrollment No.																			
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M D-Pathology**Paper –IV**

(Recent advances in the Pathology)

[Time: 3:00 Hours]**[Max. Marks: 100]**

Note: Attempt all questions. Draw well labeled diagrams wherever necessary.

1. (Long Essay)

- (a) Discuss the role of immune-phenotyping in classifications of acute myeloid Leukemia. Discuss their distinction clinical and morphological features. [15]
- (b) Discuss the molecular pathways and new classification of medulloblastoma. [15]

2. (Short Note Essay)

- (a) Discuss autologous stem cell transplantation for multiple myeloma. [10]
- (b) Laser capture micro dissection. [10]
- © Non- coding RNA's (INCARNAS) and their role in development and disease. [10]

3. (Short Notes)

- (a) DNA microarray and its applications. [10]
- (b) Immune checkpoint inhibition. [10]
- © Cytokine storm in COVID-19. [10]
- (d) The maternal death autopsy. [10]
