

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

(DCP 0524)

MAY 2024

Sub. Code: 4005

DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION

PAPER II – SYSTEMIC PATHOLOGY, CYTOLOGY AND HAEMATOLOGY

Q.P .Code: 344005

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. 28 years female presented with history of repeated attacks of mild bloody diarrhoea, abdominal pain, fever and migratory polyarteritis. GI Endoscopy showed multiple linear ulcers in ileum and colon with intervening normal edematous mucosa.
 - a) What is the possible diagnosis?
 - b) Write the pathogenesis, morphology, complications and extraintestinal manifestations of the disorder.
2. 40 years male, an alcoholic presented with numbness and paraesthesia of both legs and feet. He had undergone subtotal gastrectomy for cancer stomach one year back. He had pallor with smooth red tongue and oral ulcers.
 - a) What is the diagnosis?
 - b) Discuss the etiology, pathogenesis and write the peripheral smear and bone marrow findings with appropriate diagram.

II. Write notes on:

(10 x 7 = 70)

1. Diabetic nephropathy.
2. Cholelithiasis.
3. Endometrial hyperplasia.
4. Liquid based cytology.
5. Cytochemical stains in leukemia.
6. Langerhans cell histiocytosis.
7. Pathophysiology and lab investigations in Sickle cell disease.
8. Hemophilia.
9. FNAC in solitary nodule thyroid.
10. Warthin tumour.

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

(DCP 1224)

**DECEMBER 2024
(OCTOBER 2024 EXAM SESSION)**

Sub. Code: 4005

DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION

PAPER II – SYSTEMIC PATHOLOGY, CYTOLOGY AND HAEMATOLOGY

Q. P. Code: 344005

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Define and classify haemolytic anaemias. Discuss the laboratory test in beta-thalassemia.
2. 5-year-old child presents with fever, malaise, oliguria and smoky urine for 1-2 weeks after recovery from a sore throat.
 - a) What is your diagnosis?
 - b) Discuss the etiopathogenesis of this disorder.
 - c) Describe the pathologic changes, immunofluorescence and electron microscopic findings.

II. Write notes on:

(10 x 7 = 70)

1. Principles of automated haematology cell counters.
2. Role of FNAC in the diagnosis of salivary lesions.
3. Bethesda system for thyroid cytology.
4. Medullary carcinoma breast.
5. Morphologic variants of renal cell carcinoma.
6. Immunofluorescence in diagnosis of bullous lesions of the skin.
7. Functional disorders of platelets.
8. Osteogenic sarcoma.
9. Special stains for H. pylori.
10. What are the diagnostic tests done to classify Acute Leukaemias?

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

(DCP 1025]

OCTOBER 2025

Sub. Code: 4005

DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION

PAPER II – SYSTEMIC PATHOLOGY, CYTOLOGY AND HAEMATOLOGY

Q. P. Code: 344005

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. 48-year male presented with bleeding gums, generalized tiredness and exertional dyspnoea for the past one month. On examination pallor ++ and moderate Hepatosplenomegaly noted. Total WBC count – 1.2 lakhs/cu.mm, platelet count -72,000/cu.mm, Hb – 7g%.
 - a) What is the likely diagnosis?
 - b) Discuss the pathogenesis, clinical features and laboratory investigation – peripheral smear and bone marrow findings with ancillary tests required to confirm the diagnosis.
2. 56-year male presented with altered bowel habits, weight loss, anorexia and left lower quadrant abdomen pain. Stool positive for occult blood. Lower GI Endoscopy showed an ulceronodular lesion in the sigmoid.
 - a) What is the possible diagnosis?
 - b) Discuss the etiology, molecular pathogenesis and morphology of the condition.

II. Write notes on:

(10 x 7 = 70)

1. Asbestosis.
2. Vegetative heart diseases.
3. Hydatidiform mole.
4. H. pylori gastritis.
5. Bronchial wash.
6. Von Willebrand disease.
7. Sputum cytology.
8. Body fluid cytology for malignant cells.
9. Burkitt lymphoma.
10. Hemoglobin electrophoresis.
