IKM 116]

Sub. Code: 2014

Write short mates on : (10 × 5 = 50)

(a) Micro satellite instability

(b) Enzymes in tumor diagnosis

(c) WHO classification of AML

(d) Sideroblastic Assemia

(e) Flow Cytometry in Diagnosis

(f) Fase of Solivary gland lesions

(g) Mucosal Biopeles in large intestine

(h) Immunity in Leprosy

(i) CT Guided Aspirations in Abdominal lumps of a child

(i) Bone marrow trephine biopsy.

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch III - Pathology

Paper IV — IMMUNOPATHOLOGY, HAEMATOLOGY,
PRINCIPLES AND APPLICATION OF
TECHNOLOGICAL ADVANCES IN LABORATORY
SERVICES

Time: Three hours

Maximum : 100 marks

Theory : Two hours and

Theory: 80 marks

forty minutes

M.C.O.: Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay:

 $(2 \times 15 = 30)$

- (1) A male patient of sixty years admitted with severe amemic and mild interns. Tongue is beely red. This cuse the probable diagnosis, exception examples pathology and laboratory diagnosis.
- (2) A child of 3 years old attended hospital with history of fever, jaundice and splenomegaly. Discuss differential diagnosis and various laboratory investigations to clinch the diagnosis.

[KO 116]

Sub. Code: 2013

M.D. DEGREE EXAMINATION.

Branch III - Pathology

Paper IV — IMMUNOPATHOLOGY, HAEMATOLOGY, PRINCIPLES AND APPLICATIONS OF TECHNOLOGICAL ADVANCES IN LABORATORY SERVICES.

Time: Three hours

Maximum: 100 marks

Theory: Two hours and

Theory: 80 marks

forty minutes

M.C.Q. : Twenty minutes

M.C.Q.: 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions :

 $(2 \times 15 = 30)$

- Discuss the etiopathogenesis, classification and laboratory diagnosis of myelodysplastic syndromes.
- (2) Discuss the laboratory diagnosis of bleeding disorders.

II. Write short notes on :

 $(10 \times 5 = 50)$

- (a) Bone marrow transplant
- (b) Blood component therapy.
- (c) Recent advances in lab diagnosis of Malaria
- (d) Cytobrush
- (e) Sediments in urine
- (f) Immunotherapy
- (g) Semen Analysis
- (h) Proteolytic pretreatment of tissue sections
- (i) Harry cell Leukemia
- (j) Processing of Bone Marrow trephine biopsy.

[KP 116]

Sub. Code: 2013

M.D. DEGREE EXAMINATION.

Branch III — Pathology

Paper IV — IMMUNOPATHOLOGY, HAEMATOLOGY, PRINCIPLES AND APPLICATIONS OF TECHNOLOGICAL ADVANCES IN LABORATORY SERVICES

Time: Three hours Maximum: 100 marks

Theory: Two hours and Theory: 80 marks

forty minutes

M.C.Q.: Twenty minutes M.C.Q.: 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions:

- (1) Discuss diagnositic interpretation and clinical signifiance of serum enzymes and isoenzymes in disease. (20)
- (2) What is the method of preparation of blood components and discuss its importance in blood transfusion? (15)
- (3) Write in detail the role of immuno histochemistry in histological diagnosis. (15)

II. Write short notes on :

 $(6 \times 5 = 30)$

- (a) Disseminated intravascular coagulation.
- (b) Silver impregnation techniques in histopathology.
 - (c) Cell block preparation and diagnostic use.
- (d) Broncho alveolar lavage in detection of occupational lung disease.
- (e) Human leucocyte antigen (HLA), detection and its application.
- (f) Usefulness of Karyotyping in the diagnosis and management of leukaemia.

[KQ 114]

Sub. Code: 2013

M.D. DEGREE EXAMINATION.

Branch III - Pathology

IMMUNOPATHOLOGY, HAEMATOLOGY
PRINCIPLES AND APPLICATIONS TO
TECHNOLOGICAL ADVANCES IN LABORATORY
SERVICES

Common to — Paper IV — (Old/New/Revised Regulations)
(Candidates admitted from 1988–89 onwards) and
Paper V — (For candidates admitted from 2004–2005
onwards)

Time: Three hours Maximum: 100 marks

Theory: Two hours and Theory: 80 marks

forty minutes

M.C.Q.: Twenty minutes M.C.Q.: 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

- I. Essay questions:
- Classify haemorrhagic disorders and discuss the laboratory diagnosis of Von Willebrands disease.

(20)

- (2) Give an account of F.A.B. classification of leukemias and discuss childhood leukemias. (15)
- (3) Describe the pathology and pathogenesis of acquired immunodeficiency. (15)

II. Write short notes:

 $(6 \times 5 = 30)$

- (a) Role of colposcopy in gynecological pathology.
- (b) Glycosylated haemoglobin.
- (c) Autologus blood transfusion.
- (d) Liquid base cytology.
- (e) Advantages of diagnostic molecular pathology.
 - (f) Clinical application of flow cytometry.

[KQ 114]

[KR 116]

Sub. Code: 2013

M.D. DEGREE EXAMINATION.

Branch III - Pathology

IMMUNOPATHOLOGY, HAEMATOLOGY PRINCIPLES AND APPLICATIONS TO TECHNOLOGICAL ADVANCES IN LABORATORY SERVICES

Common to - Paper IV - (Old/New/Revised Regulations)

(Candidates admitted upto 2003-04) and

Paper IV — (For candidates admitted from 2004 – 2005 onwards)

Time: Three hours

Maximum: 100 marks

Theory: Two hours and

Theory: 80 marks

forty minutes

M.C.Q.: Twenty minutes

M.C.Q.: 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

- I. Essay questions:
- (1) Discuss the role of Bone Marrow biopsy in the diagnosis of Myeloproliferative disorders. (20)

- (2) Discuss the techniques in cytological preparation and diagnostic value of body fluids. (15)
- (3) Discuss the screening and specific tests used in the diagnosis of bleeding disorders. (15)

II. Write short notes on:

 $(6 \times 5 = 30)$

- (a) Cytokeratin expression in various neoplasms.
- (b) Hormone receptor status in Breast Carcinoma.
 - (c) Stem cell diseases.
 - (d) Tissue arrays application.
 - (e) Leucoerythroblastic blood picture.
 - (f) Applications of cytocentrifuge.

MARCH 2008

[KS 116] Sub. Code: 2013

M.D. DEGREE EXAMINATION.

Branch III — Pathology

IMMUNOPATHOLOGY, HAEMATOLOGY PRINCIPLES AND APPLICATIONS TO TECHNOLOGICAL ADVANCES IN LABORATORY SERVICES

(Common to all candidates)

Q.P. Code: 202013

Time: Three hours Maximum: 100 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Long Essay: $(2 \times 20 = 40)$

- 1. Discuss the laboratory diagnosis of haemolytic anemias.
- 2. Discuss the blood transfusion reactions.
- II. Write Short notes on:

 $(10 \times 6 = 60)$

- 1. Cytospin.
- 2. Aplastic anemia.
- 3. Immunethrombo cytopenic purpuras.
- 4. Natural killer cells.
- 5. Multiple myeloma.
- 6. Flow cytometry.
- 7. Nucleolar organizing regions.
- 8. Pure red cell aplasia.
- 9. Urinary sediments.
- 10. Automatted cell counters.

[KT 116] Sub. Code: 2013

M.D. DEGREE EXAMINATION

Branch III – Pathology

Paper IV – IMMUNOPATHOLOGY, HAEMATOLOGY PRINCIPLES AND APPLICATIONS TO TECHNOLOGICAL ADVANCES IN LABORATORY SERVICES

(Common to all candidates)

Q.P. Code: 202013

Time: Three hours Maximum: 100 marks

Draw suitable diagram wherever necessary. Answer ALL questions.

I. Essay questions:

 $(2 \times 20 = 40)$

- 1. Classify anemias. Discuss the etiopathogenesis, morphology and lab diagnosis of pernicious anemia.
- 2. Discuss the available immune markers in diagnostic pathology. Mention the recent advances in identification of tumors by immuno-histochemistry.

II. Write short notes on:

 $(10 \times 6 = 60)$

- 1. Utility and accuracy of zeta sedimentation.
- 2. Tropical sprue.
- 3. Recent advances in stem cell therapy.
- 4. Discuss pulmonary cytopathology -- routine and ancillary treatment.
- 5. Diseases of red cell membrane.
- 6. Complications of plasmacytoma.
- 7. Automation in urine analysis.
- 8. Von-willebrand's disease.
- 9. Recent advances in organ transplantation protocols.
- 10. Antibody dependent cell mediated cytotoxicity (ADCC).
