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FINAL EXAM JÜNE 2013 NATIONAL BOARD OF EXAMINATIONS

PATHOLOGY PAPER –IV

PATHO/J/13/32/IV

Time	: 3 hours
Max. Marks	: 100

Attempt all questions in order. Each question carries 10 marks.

1.	reactions encountered in leprosy.	7+3
2.	Write short notes on: a. Polarising microscopy in diagnostic pathology b. Role of prostaglandins in acute inflammation	5+5
3.	What is Epithelial Mesenchymal Transition (EMT)? What are its molecular pathways and significance in malignancy?	4+3+3
4.	Write short notes on: a. Pathogenesis of vascular spread of tumours.b. Plasticity of stem cells and its clinical significance.	5+5
5.	Define innate and adaptive immunity. Describe the cellular and molecular mechanisms of innate immunity.	3+7
6.	Describe the various mechanisms of recognition and rejection of allografts. Describe in brief the morphology, immunocytochemistry and electron microscopy of chronic antibody mediated kidney transplant rejection.	7+3
7.	Give the various causes with examples of genetic predisposition to cancer. What is the interaction between genetic and non genetic factors?	7+3
8.	Write short notes on: a. Gene microarray technology b. Tissue microarrays	7+3
9.	Describe the genetic abnormalities, pathophysiology and clinical correlation of cystic fibrosis (mucoviscidosis).	4+3+3
10.	Enlist the various lysosomal disorders along with their specific defects. Describe the clinical features and pathology of different types of Niemann-Pick disease.	4+6

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