



BAREILLY INTERNATIONAL UNIVERSITY

Pilibhit Bypass Road, Bareilly - 243006 (U.P) India

Phone: 0581-2526051, 053, 153

Email: info@biu.edu.in Website : www.biu.edu.in

Course Work - Ph. D.

Syllabus

Paper-I (100 Marks)

Pathology (Code – 91276)

Credits : 04

Hrs. : 60

1. General Pathology:

- Role of pathologist in diagnosis and management of disease
- Common definitions and terms in pathology: Lesion, morphology, pathogenesis, syndrome, etiology, gross examination, microscopic examination
- Cell Injury – causes, mechanism
- Cell death – types, mechanisms, necrosis, apoptosis
- Cell Adaptations – atrophy, hypertrophy, hyperplasia, metaplasia, dysplasia, aplasia
- Inflammation – Acute & Chronic Inflammation -signs, gross and microscopic features
- Neoplasia – definition, types, differences between benign & malignant, nomenclature, spread of tumours, metastasis, carcinogenesis (viral, chemical), laboratory diagnosis, tumour markers

2. Fine Needle Aspiration (FNA):

- Introduction
- FNAC as a tool in clinical investigation, advantages, limitations, challenges
- Basic techniques – equipment, patient preparation, procedure, processing of sample, fixation, staining
- Image guided Aspiration cytology – technique, sterility, risk/complications, pitfalls

3. Non- Gynecological Cytopathology:

- Introduction to terminologies
- Concepts and skills used
- Head and Neck-cysts, neoplasms; Salivary gland cytology
- Lymph Node cytology

- Thyroid cytology with Bethesda system of reporting,
- Breast cytopathology-applications, advantages & disadvantages, fibroadenoma, phyllodes tumour, breast carcinoma
- Fluid Cytopathology – inflammatory, benign and malignant
- Soft tissue Lesions

4. Gynecological Cytopathology:

- Role of cytology in gynecological specimens (clinical applications)
- PAP test – Bethesda system of reporting, LBC – advantages

ASSESSMENT IN Ph. D. PATHOLOGY: 50 MCQ questions of total 100 marks

Distribution of MCQs :

Section Distribution	No. of MCQs	Marks
General Pathology	10	20
Fine Needle Aspiration (FNA)	10	20
Non- Gynecological Cytopathology	15	30
Gynecological Cytopathology	15	30
TOTAL	50	100