

ANNEX C

EXAMINATION FOR CYTOTECHNICIANS

Basic qualification and experience in cytology Higher Secondary in biological Sciences with diploma in Medical Lab. Technology/ certificate course and a six months experience in cytology.
OR
Higher secondary in biological Sciences with 5 years experience in cytology
OR
B.Sc. Medical with 6 months experience in Cytology

1. Schedule of examination

- i) Examination should consist of **theory, practical & viva-voce**
- ii) **Theory paper (100 marks)** : Should have 40 MCQs (40 marks); 5 matching type question (20 marks) and 8 short answer questions (40 marks) (duration 3 hours)
- iii) Distribution of **theory questions** should be as follows :

Basic cytology	20%
Gynaecological cytology	20%
Non-gynaecological cytology	
Including FNAC	20%
Techniques	40%

iv) **Practical : 100 marks**

Practical :

To have 3 practical exercises :

- i) Papanicolaou stain (10)
- ii) Preparatory techniques/Cytospin/Millipore filter preparation etc. (14)
- iii) Special stain/MGG etc. (10)

Spots : Consisting of 15 objective structure practical examination stations.

- i) 7 stations on instruments. (7x2=14)
- ii) 8 stations on identification of cells etc. (8x4=32)

Total marks : 80

A candidate has to pass separately in theory and practical + viva voce. A candidate must secure at least 50% in each.

Fees Rs. 100/- (by a bank draft drawn in favour of Treasurer, Indian Academy of Cytology)

Certificate A certificate will be issued to successful candidates.

Time of examination Around September / October of every year

COURSE FOR CYTOTECHNICIAN

i) **Staining of cytopathology Specimen**

- a) Principles of fixation and various fixatives used.
- b) Papanicolaou staining-principles, advantages and techniques.

ii) **Centrifugation techniques**

- a) Centrifugation principle and applications.
- b) Cyto centrifuge - principle and applications.
- c) Membrane filters - principle and applications.

iii) **Cytochemistry**

- a) Routine cytochemistry staining procedure like MGG, alcian blue, mucicarmine, PAS, fat stain etc.

iv) **Female Genital tract**

- a) Anatomy, structure & physiology of female genital tract.
- b) Various techniques of collecting material from female genital tract.
- c) Hormonal cytology and staining
- d) Various types of cells from female genital tract
- e) Cytology of uterine cervix.

v) **Respiratory tract**

- a) Anatomy and physiology of respiratory tract.
- b) Collection and preparation

vi) **Urinary tract**

- a) Anatomy and physiology of urinary tract
- b) Collection and preparation.

vii) **Gastro-intestinal tract**

- a) Anatomy and physiology of gastrointestinal tract.
- b) Collection of material from gastrointestinal tract and its preparation.

viii) **Effusion**

- a) Anatomy of serous cavities
- b) Collection and preparation of fluid for cytological examination.

ix) **Introduction of cytogenetics**

- a) Collection of material and staining for sex chromatin.
- b) Culture of lymphocytes and making smears and staining.

x) Preliminary knowledge on **fine needle aspiration** cytology, preparation of smears and staining.