

Cellular pathology

cervical cytology



**ASSIGN
BUSTER**

CELLULAR PATHOLOGY CERVICAL CYTOLOGY OBSERVING THE COLOUR TRANSPARENCIES AND READING PRACTICAL SCHEDULE where is squamous epithelium located in the vagina and cervix [2 MARKS]

Vagina - vaginal canal

Cervix - exterior surface

[2] where is the columnar epithelium located in the cervix [1 MARK]

Endocervical canal

[3] list some cell types found in a normal cervical smear [6 MARKS]

Squamous cells - basal, parabasal, intermediate and superficial cells, columnar cells, blood cells

[4] what colours do these cell types stain with the papanicolaou stain [6 MARKS]

Parabasal - stain green [denser]

Intermediate - stain green [pale]

Superficial - stain pink

Basal cells - dense green

Blood cells- orange

[5] name some contaminants found in cervical smears [5 MARKS]

Inflammatory cells

Powder from gloves

Dust from slides

Contamination from the body

Fibers from tampons

Fibers from clothes

Lubricants

[6] which cell type normally has the smallest nucleus [2 MARKS]

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Superficial cells

[7] which cell type normally has the greatest amount of cytoplasm [2 MARKS]

Superficial cells

[8] name four early indicators of cellular change in a cervical smear [4 MARKS]

Inflammatory cells

Cervical mucin

Abnormal cytoplasmic staining

Abnormal cytoplasmic ratio

Cells indicating intraepithelial cell changes ie. Cells of mild dysplasia

Cells of invasive cancer ie. Cells of invasive squamous cell cancer

[9] advanced abnormal smears may contain a good deal of blood. Why [2 MARKS]

ulcerating or fungating or hemorrhagic lesion occurring in the vagina due to invasive cervical carcinoma.

BY OBSERVING H&E STAINED SECTIONS THROUGH THE VAGINA, READING SCHEDULE AND EXAMINING OVERHEAD SHEETS.

[10] draw a plan of a cross section through the vagina showing the location and cellular organisation of the squamous epithelium and its associated layers. Label your diagram and add appropriate magnification. (hand drawn diagram) [20 MARKS]

[11] draw a detailed diagram of a few cells from each layer of the vaginal squamous epithelium. Label your diagram and add appropriate magnification. (hand drawn diagram) [25 MARKS]

BY OBSERVING THE COLOUR TRANSPARENCIES, READING YOUR PRACTICAL

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SCHEDULE AND EXAMINING THE FIVE EXAMPLES OF CERVICAL SMEARS.

[12] by comparing them with the normal cervical smear, list and sketch

some features of abnormal cells shown in smears of CIN 1, CIN 2, CIN 3

(carcinoma in situ), and in invasive carcinoma (hand drawn diagram) [25

MARKS]