## BV (6/CBCS) MLT/MDT VE3

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## MEDICAL LABORATORY TECHNICIAN/ MEDICAL LAB AND MOLECULAR DIAGNOSTIC TECHNOLOGY

Paper: MLT-VE-6036/MDT-VE-6036

( Pathology—VI )

Full Marks: 60

Time: 3 hours

The figures in the margin indicate full marks for the questions

	The presence of in the body
(ω)	cavity fluids is a key indicator of
tus: Par	inflammation or infection.
(b)	crystals are frequently found in
r Skd	urine and may appear as enveloped-shaped structure.
Ingoi	rainteni la alteració de la
(c)	The process of collection of pericardial
	fluid is known as
	10 March 1981

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(Turn Over)

	(d)	In cervical cytology, is the primary screening method for detecting precancerous and cancerous lesions.
	(e)	Hematoxylin is used in pap stain the cell
	<b>(f)</b>	is a commonly used fixative in cytology that preserves cellular morphology by denaturing proteins.
	<i>(g)</i>	is specimen with low pH.
2.	Ans	wer the following questions:
	(a)	Write short notes on the following: 2+2=4  (i) Triple smear  (ii) Ileal conduit of urine
		What is the difference between a wet smear and a dry smear in cytology preparation?
	(c)	What are the common types of urinary crystals encountered in urine cytology? 2
3.		wer any <i>three</i> of the following questions: 5×3=15
	(a)	Discuss the role of interventional cytology in the diagnosis and management of various types of lesions or diseases.
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- (b) Define effusion. Describe the common types of effusion.
- (c) Define dyskaryotic changes and explain the cellular abnormalities associated with dyskaryosis.
- (d) How will you process a bloody specimen in cytopathology laboratory?
- (e) Describe the steps involved in preparing a cell block from cytological specimen.
- **4.** Answer any *three* of the following questions:  $10 \times 3 = 30$ 
  - (a) What the primary purpose is conducting cervical cytology? Describe the process of collection of specimen female genital from the tract emphasizing patient comfort and sample integrity. 2+8=10
  - (b) What is FNAC? Write two advantages of FNAC. Describe the procedure of FNAC.

    1+2+7=10
  - (c) Write a note on papanicolaou stain and its application.

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- (d) Explain the applications of exofoliative cytology in the diagnosis of urinary tract disorders. Explain the types of specimen obtained for urine cytology. 5+5=10
- (e) What is interventional cytology?

  Describe the technique used to collect samples for cytological examination.

1+9=10

(f) Explain the methodologies used to process fluid specimens in a cytology laboratory.

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