

**Shree Manibhai Virani and Smt. Navalben Virani Science College (Autonomous)**

Affiliated to Saurashtra University, Rajkot

SEMESTER END EXAMINATION NOVEMBER – 2016

**B.Voc. Medical Laboratory and Molecular Diagnostic Technology****MLMDT 1.2 - GENERAL PATHOLOGY***Duration of Exam – 3 hrs**Semester – I**Max. Marks – 70***Q.1 Answer the following Questions****[20]**

- 1 What is atrophy?
- 2 Most reactive free radical species responsible for damage is \_\_\_\_\_
- 3 What is a hyperemia?
- 4 What is cardiogenic shock?
- 5 Name of chemical mediators which is responsible for vasodilatation of blood vessel during inflammation.
- 6 Most cancers (>90%) arise from "epithelial" tissues, such as the inside lining of the colon, breast, lung or prostate. These are referred to as \_\_\_\_\_
- 7 A hallmark of malignancy is metastasis and \_\_\_\_\_ cells.
- 8 Give two examples of DNA oncogenic virus.
- 9 Klinefelter's syndrome is characterized by \_\_\_\_\_.
- 10 Name of enzyme which deficiency leads to Tay Sach disease?
- 11 Define iatrogenic agents.
- 12 Antioxidant properties is exhibited by Vitamin \_\_\_\_\_
- 13 What are the classical signs of inflammation?
- 14 Inherited diseases are caused by mutation in \_\_\_\_\_
- 15 Give examples of buffer system in the body
- 16 A \_\_\_\_\_ form of ionizing radiation exposure is associated with higher risk of cancer.
- 17 Hyperplasia and hypertrophy of adipocytes lead to \_\_\_\_\_.
- 18 Give two examples of gases for contribution in green house effect.
- 19 Indicator for water pollution is \_\_\_\_\_.
- 20 Define Metabolic acidosis

**Q-2 (A) Answer in brief (Any 3)****[6]**

- 1 Define Osmotic Pressure and Hydrostatic Pressure.
- 2 What is necrosis? Enumerate its types.
- 3 Give reason: Why inflammation reaction is considered as protective mechanism of body?
- 4 Which are the staging systems used for staging of cancer? Explain any one of them.
- 5 Differentiate between monosomy and trisomy.
- 6 What are the causes of Ischemia?

**Q-2 (B) Answer in brief (Any 3)****[9]**

- 1 Define: Hyperplasia, Dysplasia and Metaplasia
- 2 What are the causes and clinical feature of hypovolemic shock?
- 3 Differentiate between acute inflammation and chronic inflammation.
- 4 Explain the role of tumor suppressor genes in malignancy with examples.
- 5 What is Cri du Chat? What is the cause of this disease?
- 6 Classify chemical and drug injury. Write a note on alcoholism.

**Q-2 (C) Answer in detail (Any 2)****[10]**

- 1 Discuss various cell injury and its effects.
- 2 What is hyperemia? What are the two types of hyperemia? Name some factors which are responsible for hyperemia.
- 3 Briefly explain the stages of wound healing process.
- 4 Explain the process of chemical carcinogenesis.
- 5 What is genetic disorder? What are the different categories of genetic disorder? Briefly explain each category with one example.

**Q-3 (A) Answer in brief (Any 3)****[6]**

- 1 What is transudate and Exudate.
- 2 Define Drug Abuse with suitable examples.
- 3 What are the roles of macrophages in chronic inflammation reaction?
- 4 How benign tumor differs from malignant tumor?
- 5 What are the functions of vitamin E.
- 6 Define factors responsible for Environmental pollution.

**Q-3 (B) Answer in brief (Any 3)****[9]**

- 1 Enlist the morphologic changes in irreversible injury.
- 2 What is the difference between regeneration and repair?
- 3 What are the pathological conditions responsible for hemorrhage?
- 4 What is the reason that Hemophilia more common in males?
- 5 Write in brief about Oncogenes.
- 6 What are the effects of radiation on the cell and tissue?

**Q-3 (C) Answer in detail (Any 2)****[10]**

- 1 Write are the pathophysiology of obesity.
- 2 Describe cellular adaptations.
- 3 Explain the different stages of inflammation reaction.
- 4 Write in brief about routes of metastasis
- 5 Write a note on Tobacco related diseases