

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI  
(END SEMESTER EXAMINATION)**

**CLASS: B.PHARM  
BRANCH: PHARMACY**

**SEMESTER: 2<sup>nd</sup>  
SESSION: SP/22**

**SUBJECT: BP204T PATHOPHYSIOLOGY**

**TIME: 3.00 Hours**

**FULL MARK: 75**

**INSTRUCTIONS:**

1. The missing data, if any, may be assumed suitably.
  2. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
  3. This question paper consists of (03) three parts. Read the part wise instructions before attempting the questions.
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**PART-I**

**Objective types questions (Instruction: Answer all questions)**

- Q1. (10 x 2 = 20 Marks)
- A. Define hypertrophy.
  - B. Differentiate infection and inflammation.
  - C. Define cytokines.
  - D. Write different phases of wound healing.
  - E. Define hypo- and hypernatremia.
  - F. Enlist the types of anaemia affecting the people
  - G. What are the types of ulcers occurring in the GIT?
  - H. What is the full form of IBD? Give the types of IBD
  - I. Name the diseases associated with joint inflammation.
  - J. Name the diseases affecting liver.

**PART-II**

**Short Answers**

**(Instruction: Answer seven out of nine questions)**

(7 x 5 = 35 Marks)

- Q2. Define homeostasis. Describe the components and types of feedback systems.
- Q3. Describe cell death in detail. Differentiate apoptosis and necrosis.
- Q4. Describe calcification, its types and their pathogenesis.
- Q5. Define inflammation. Describe the basic mechanism of Inflammation.
- Q6. Define Diabetes. Classify the types that are prevalent. Discuss the factors associated with the pathogenesis of this disease
- Q7. What is rheumatoid arthritis? Enumerate the symptoms and risk factors associated with rheumatoid arthritis
- Q8. Elaborate on the factors that are associated with the causation of anaemia. Enumerate the symptoms of anaemia and mention how it can be controlled.
- Q9. Illustrate in your own words the causes and symptoms of peptic ulcer and how can this disease be managed.
- Q10. Differentiate between jaundice and cirrhosis with respect to their causes, risk factors and preventions.

**PART-III**

**Long Answers**

**(Instruction: Answer two out of three questions)**

(2 x 10 = 20 marks)

- Q11. Define cell injury. Describe the etiology of cell injury. Explain various adaptive changes during cell injury.
- Q12. Classify diseases affecting the gastrointestinal system. Write an explanatory note regarding inflammatory bowel disease.
- Q13. Compare and contrast between the symptoms, prevention and treatment protocols of the main types of hepatitis.

:21/07/2022: