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**The Assam Royal Global University, Guwahati**  
**Royal School of Medical and Allied Sciences**  
**Bachelor of Physiotherapy, 6<sup>th</sup> Semester**  
**Semester End Examination, June 2023**  
**Course Title: Clinical Cardiology and Pulmonary Disorders**  
**Course Code : PHT242C601**

**Time: 3 Hours**

**Maximum Marks: 70**

**Note: Attempt all questions as per instructions given.**  
*The figures in the right-hand margin indicate marks.*

**Section – A**

1. Attempt **all** questions. (Maximum word limit 50) **2 x 8**
- a. Write about 2 minute walk test.
  - b. What is resting membrane potential of heart?
  - c. What is depolarization?
  - d. Write the difference between obstructive and restrictive lung diseases.
  - e. What are the indications of ECG?
  - f. What are the landmarks to see in chest x-ray?
  - g. What is thoracocentesis?
  - h. Write the causes of lung abscess.

**Section – B**

2. Attempt **any one** of the following: **12 x 1**
- a. Write a note on various stress tests.
  - b. What is pneumothorax? Explain the types of pneumothorax along with clinical management.
3. Attempt **any two** of the following: **7 x 2**
- a. Define ABG. Describe steps to interpret ABG.
  - a. Write the fundamental principles of ECG.
  - b. Define cardiomyopathy. Write in details about hypertrophic cardiomyopathy.
4. Attempt **any two** of the following: **7 x 2**
- a. What are the indication for PFT? Write about the various tests of PFT.
  - b. Define empyema and explain in details about the stages of empyema.
  - c. Write in details about the types of adventitious breath sounds.
5. Attempt **any two** of the following: **7 x 2**
- a. What is bronchiectasis? Explain in details about bronchiectasis.
  - b. Explain in details about the various occupational lung diseases.
  - c. Explain the types of respiratory failure.