

# Question Paper

Exam Date & Time: 07-Mar-2022 (10:07 AM - 11:30 AM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER B.Sc. NURSING DEGREE EXAMINATION - FEBRUARY/MARCH 2022  
SUBJECT: PHYS 110 - APPLIED PHYSIOLOGY

Marks: 31

Duration: 83 mins.

Answer all the questions.

Section Duration: 7 mins

### 1. Essay:

- 1A) Explain the second phase of deglutition. (5)  
1B) List FIVE functions of liver. (5)

### 2. Short Note:

- 2A) Draw a labelled ECG recorded from limb lead II. Mention the cause of each wave. Mention one use of ECG. (5)  
2B) Explain the role of central chemoreceptors in regulation of respiration. Give the normal partial pressures of carbon dioxide in arterial and venous blood (4+1 = 5 marks) (5)  
2C) Name the plasma proteins. Mention any three functions of plasma proteins. (2+3 = 5 marks) (5)

### 3. Short answers:

- 3A) Briefly explain the basis for 'rigor mortis'. (2)  
3B) List any four symptoms of diabetes mellitus. (2)  
3C) Draw and label nerve action potential. (2)

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