



## MANIPAL UNIVERSITY

**SECOND SEMESTER BSc. RESPIRATORY THERAPY DEGREE EXAMINATION - AUGUST  
2017  
SUBJECT: BRES 112 - CLINICAL ANATOMY AND PHYSIOLOGY FOR RESPIRATORY CARE  
(2016 SCHEME)  
Monday, August 21, 2017 (14.00 - 16.00 Hrs.)**

**Marks: 50**

**Duration: 120 mins.**

**Answer all the questions.**

- 1) Explain Primary principle of ventilation with the help of diagram. (10)
- 2) Describe vascular resistance and mention factors that increase and decrease vascular resistance. (10)
- 3A) Distribution of pulmonary blood flow. (5)
- 3B) Clinical significance of the Steep portion of the curve. (5)
- 3C) Explain oxygen diffusion capacity. (5)
- 3D) Describe the classification of renal disorders. (5)
- 4A) Define: i) Dalton's law ii) Rapid shallow breathing index (RSBI) (2)
- 4B) Function of the larynx (2)
- 4C) Compute the Total oxygen content formulae and normal value (2)
- 4D) Enlist prerenal abnormalities (2)
- 4E) Compare K complexes with Sleep Spindles (2)