

**Fourth Year Bachelor of Occupational Therapy Degree Supplementary
Examinations March 2026**

Clinical Cardio Respiratory and Work Physiology

(2020 Scheme)

Time: 3 Hours

Total Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Elaborate on

(2x20=40)

1. List the conditions requiring open heart surgery. Elaborate on the extent, use and complications of anterolateral sternotomy
2. Describe the clinical features of Chronic Obstructive Pulmonary Disease. Describe the management of the same

Write notes on

(8x5=40)

3. Ventilatory adaptations during exercise
4. Management of heart failure
5. Suppurative lung diseases
6. ABG analysis
7. Decortication and window operation
8. Factors affecting muscle work
9. Intercostal drainage
10. Weaning from ventilator

Short Answers

(10x2=20)

11. Pulmonary hypertension
12. Defibrillators
13. Pump handle and bucket handle movement
14. Peripheral chemoreceptors
15. Therapeutic benefits of regular exercise
16. Factors that limit oxygen uptake by muscles during exercise
17. ATP
18. Effect of smoking in athletes
19. Muscle blood flow during exercise
20. Recovery of muscle metabolic system after exercise
