



NC-10602 Seat No. _____

Fourth Year B. Physiotherapy Examination

January – 2017

P. T. in Cardiopulmonary Condition

Time : **3 Hours]**

[Total Marks : **100**

Instructions :

- (1) The answers should be specific to the questions asked.
- (2) Each section should be in a separate answer booklets.
- (3) Draw neat labeled diagrams wherever necessary.
- (4) Answer all the questions.

SECTION – I

- 1** Long essay : (any **two**) **10×2=20**
 - a) PT assessment and management for cystic fibrosis has undergone lobectomy.
 - b) Explain in detail the pulmonary rehabilitation for patient suffering from COPD.
 - c) Cardiac rehabilitation for myocardial infarction patient.

- 2** Short essay : (any **two**) **2×5=10**
 - a) 6 minutes walk test
 - b) Bronchial hygiene technique
 - c) CPR

- 3** Very short essay : **5×2=10**
 - a) Cyanosis
 - b) Vocal fremitus
 - c) Contraindication of postural drainage
 - d) Advantage of aerobic exercise
 - e) ACBT
 - f) Advantage of AMBU beg.

- 4 Multiple choice questions : 1×10=10
- 1) Tachypnea is define as –
 - a) RR greater than 20
 - b) RR greater than 40
 - c) RR greater than 10
 - d) RR greater than 8

 - 2) Central cyanosis seen on –
 - a) Tongue
 - b) Face
 - c) hand
 - d) Chest

 - 3) Pigeon chest seen on –
 - a) Asthma
 - b) Emphysema
 - c) Lung abscess
 - d) Lung cancer

 - 4) Apnoea is –
 - a) Absence of breathing more then 5 sec
 - b) Absence of breathing more then 8 sec
 - c) Absence of breathing more then 15 sec
 - d) Absence of breathing more then 10 sec

 - 5) Normal pH values –
 - a) 7.35 – 7.45
 - b) 7.25 – 7.30
 - c) 7.10 – 7.15
 - d) 7.55 – 7.75

 - 6) Causes of atrial arrhythmias –
 - a) Ischaemic heart disease
 - b) Rheumatic heart disease
 - c) Cardiomyopathy
 - d) All of the above

 - 7) Which of the following cause a Pneumothorax ?
 - a) Pneumonia
 - b) Tuberculosis
 - c) COPD
 - d) All of the above

 - 8) Most pulmonary emboli originates from thrombi in the –
 - a) Lungs
 - b) Right heart
 - c) Pelvic veins
 - d) Pulmonary veins

 - 9) In an obstructive lung disorder which of the following occurs –
 - a) FRC decrease
 - b) RV decrease
 - c) V C decrease
 - d) Both b) & c)

 - 10) N Y H A classification for –
 - a) Dyspnea
 - b) Chest mobility
 - c) Chest expansion
 - d) Cough

SECTION – II

- 5 Long essay : (any two) 2×10=20
- a) Discuss Pre and Post operative management for 60 year old man who underwent CABG.
 - b) Discuss physiotherapy role in neonatal ICU.
 - c) Write in detail about mechanical ventilator with weaning criteria and complication ?
- 6 Short essay : (any two) 2×5=10
- a) Effect of supine and prone position on lung function
 - b) Incentive spirometer
 - c) P T management on buerger's disease
- 7 Very short notes (any five) 5×2=10
- a) Cardiac murmur
 - b) Deep vein thrombosis
 - e) Define pneumothorax
 - d) What is R V ?
 - e) Complication of percussion
 - f) Thoracic expansion exercise.
- 8 Multiple choice questions : 10×1=10
1. S1 heart sound is associated with –
 - a) Closure of A V valve
 - b) closure of semi lunar valve
 - c) MI
 - d) All of the above
 2. In cardiac cycle, diastole period is –
 - a) Ventricular contraction
 - b) Ventricular relaxation
 - c) Atrial contraction
 - d) Atrial relaxation
 3. P wave is represented by –
 - a) AV node
 - b) S A node
 - c) Atrial contraction
 - d) Atrial relaxation

4. QRS complex is represented by –
- a) ventricular contraction
 - b) ventricular relaxation
 - c) atrial contraction
 - d) atrial relaxation
5. which is not a symptoms of C.H.F. ?
- a) dyspnea
 - b) weight loss
 - c) crackles
 - d) orthopnea
6. Normal ventilation / perfusion ratio are
- a) 0.2
 - b) 0.4
 - c) 0.6
 - d) 0.8
7. The following is the recognized cause of hemoptysis –
- a) asthma
 - b) pleural effusion
 - c) bronchiectasis
 - d) tuberculosis
8. Ventricular depolarization in ECG is represented by –
- a) P WAVE
 - b) U WAVE
 - c) T WAVE
 - d) QRS COMPLEX
9. CABG done by –
- a) sternotomy incision
 - b) lateral incision
 - c) antro-lateral incision
 - d) none of the above
10. Flutter is a –
- a) chest compressor
 - b) high frequency PEP device
 - c) vibrator
 - d) none of above
-