



BBW-10602

Seat No. _____

Final Year B. P. T. Examination

August – 2021

Physiotherapy In Cardio - Pulmonary Conditions

Time : 3 Hours]

[Total Marks : 100

SECTION - I

- 1 Long Essay : (Any Two) 2×10=20**
- (1) Write physiotherapy assessment and management for 20 Years old patient with cystic fibrosis.
 - (2) Discuss post-operative assessment and physiotherapy management for right side lobectomy.
 - (3) Discuss physiotherapy assessment and management for peripheral vascular disease.
- 2 Short Essay : (Any Two) 2×5=10**
- (1) Pulmonary fuction test
 - (2) Active cycle breathing
 - (3) 6 - minute walk test
- 3 Very Short Essay : (Any Five) 5×2=10**
- (1) Acapella
 - (2) Pulmonary tuberculosis
 - (3) Causes of Pneumothorax
 - (4) Meter dose inhaler
 - (5) humidifier
 - (6) pulse oximeter
- 4 Multiple choice question : (M.C.Q.) 10×1=10**
- (1) What is the correct formula to use in order to gain a patient's target heart rate?
 - (A) Target Heart Rate = [(max HR × intensity) × %Resting HR] - max HR
 - (B) Target Heart Rate = [(max HR + resting HR) - %Intensity] + resting HR
 - (C) Target Heart Rate = {(resting HR - max HR) + %Intensity} - max HR
 - (D) Target Heart Rate = [(max HR - resting HR) × %Intensity] + resting HR

- (2) Which of the following most accurately describes Inspiratory capacity?
- (A) The amount of air that can be inhaled following a normal tidal inhalation
 - (B) The maximum amount of air that can be inhaled following complete expiration
 - (C) The volume of air that can be forcefully exhaled following a maximum inhalation
 - (D) Amount of air that remains in lungs after exhalation of ERV
- (3) internal intercostals muscle work during
- (A) inspiration
 - (B) expiration
 - (C) increase vertical diameter
 - (D) none of above
- (4) paradoxical breathing occurs in
- (A) frail chest
 - (B) acute bronchitis
 - (C) bronchial asthma
 - (D) none of above
- (5) In patients with COPD the pattern of lung function tests includes the following except:
- (A) Reduced FEV1
 - (B) Increased vital capacity (VC)
 - (C) Increased total lung capacity (TLC)
 - (D) Reduced carbon monoxide diffusing capacity (DLCO)
- (6) Which of the following diseases is included in the umbrella term COPD?
- (A) Asthma
 - (B) Chronic bronchitis
 - (C) Emphysema
 - (D) Both b and c
- (7) Long-term exposure to which of the following can increase the risk for COPD?
- (A) pollution
 - (B) air irritant
 - (C) smoking
 - (D) all of above
- (8) What is normal inspiration: expiration ratio?
- (A) 1:4
 - (B) 1:3
 - (C) 1:2
 - (D) 1:5
- (9) In obstructive lung disease, which of the following occurs?
- (A) increase total lung capacity
 - (B) decrease FEV1/FVC
 - (C) increase residual volume
 - (D) all of above

- (10) All of the following cause compressive atelectasis EXCEPT
- (A) Pneumothorax (B) pyothorax
(C) pleural effusion (D) asthma

SECTION - II

- 5 Long Essay : (Any Two) 2×10=20**
- (1) Physiotherapy assessment and management for patient admitted in ICU.
- (2) Discuss outpatient phase of cardiac rehabilitation for 65-year-old man who is operated and CABG was done.
- (3) Discuss mechanical ventilator.
- 6 Short Essay : (Any Two) 2×5=10**
- (1) CPR
- (2) Aortic regurgitation
- (3) IPPB (Intermittent positive pressure breathing)
- 7 Very Short Essay : (Any Five) 5×2=10**
- (1) Cardiac arrhythmia
- (2) Complication of ventilator
- (3) Varicose vein
- (4) Heart sound
- (5) Breath sound
- (6) Autogenic drainage
- 8 Multiple choice question : (M.C.Q.) 10×1=10**
- (1) tetralogy of Fallot includes
- (A) ASD (B) VSD
(C) pulmonary stenosis (D) Both B And C
- (2) in mechanical ventilator, following mode is use for weaning
- (A) control mode (B) SIMV
(C) IMV (D) all of above
- (3) cardiac output is equal to
- (A) $HR \times SV$ (B) $HR \times SBP$
(C) $HR \times DBP$ (D) None of above

- (4) What can be a cause of pedal edema
(A) hypoproteinemia (B) right heart failure
(C) Both A and B (D) none of above
- (5) Which of the following is the most common symptom of myocardial infarction?
(A) Chest pain (B) Dyspnea
(C) Edema (D) none of above
- (6) What is the term used to describe an enlargement of the heart muscle?
(A) Cardiomegaly (B) Cardiac tamponade
(C) Myocarditis (D) Pericarditis
- (7) The ratio of cardiac compression to breath during single operator CPR is
(A) 15:2 (B) 5:1
(C) 15:1 (D) 10:2
- (8) Stimulation of the sympathetic nervous system produces which of the following responses?
(A) Bradycardia
(B) Tachycardia
(C) Hypotension
(D) Decreased myocardial contractibility
- (9) Which of the following symptoms might a client with right-sided heart failure exhibit?
(A) Adequate urine output
(B) Polyuria
(C) Oliguria
(D) Polydipsia
- (10) Which phase of cardiac rehab would employ low intensity 2-3 MET activities initially, and progress to 3-5 Met activities by conclusion of the phase?
(A) inpatient phase (B) outpatient phase
(C) both a and b (D) none of above