



BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – B.Physiotherapy-2020

Course Name – Physiotherapy in Medical Conditions

Course Code - BPT703

(Semester VII)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

(i) Identify the primary difference between CPAP and BiPAP therapy?

- | | |
|---|---|
| a) CPAP uses a single pressure, while BiPAP uses two pressure settings. | b) CPAP is for children, while BiPAP is for adults. |
| c) CPAP is more expensive than BiPAP. | d) CPAP is used during the day, while BiPAP is used at night. |

(ii) Identify the purpose of the expiratory pressure setting in BiPAP therapy?

- | | |
|---|---|
| a) To increase oxygen levels in the bloodstream | b) To prevent airway collapse during inhalation |
| c) To assist with exhalation and reduce work of breathing | d) To regulate the patient's heart rate |

(iii) Select the group for Simvastatin

- | | |
|-----------------|--------------------------------|
| a) beta blocker | b) lipid lowering drug |
| c) pain killer | d) prevention for peptic ulcer |

(iv) Identify the condition where bullae can be seen

- | | |
|------------------|-----------------------|
| a) asthma | b) pulmonary embolism |
| c) cor pulmonale | d) emphysema |

(v) Select the type of nebulizer is commonly used with mechanical ventilators for delivering medications?

- | | |
|-------------------------|-------------------------|
| a) Ultrasonic nebulizer | b) Jet nebulizer |
| c) Mesh nebulizer | d) Compressor nebulizer |

(vi) Distinguish the following correct statements about oxygen therapy in COPD

- | | |
|--|--|
| a) Oxygen therapy is only needed during the day. | b) Oxygen therapy is not effective in improving oxygen levels in COPD. |
|--|--|

- c) Oxygen therapy can improve survival and quality of life in certain COPD patients with low oxygen levels. d) Oxygen therapy is primarily used to cure COPD.
- (vii) Choose the correct option for Rheumatoid arthritis
 a) An inflammatory condition b) An infectious disease
 c) A condition that only affects women d) A condition that only affects men
- (viii) Identify the defect is not included in Tetralogy of Fallot
 a) ASD b) VSD
 c) PS d) Ventricular hypertrophy
- (ix) Collect the option for Swan neck deformity which is due to
 a) contracture of extensor digitorum communis b) intrinsic tightness
 c) contracture of FDP d) rupture/laxity of volar plate.
- (x) Choose the option for Bouttenaire deformity which is due to
 a) Contracture of FDS b) Rupture of central slip of extensor expansion
 c) Contracture of extensor digitorum d) Rupture of collateral slip of extensor expansion
- (xi) Relate the source of pain in OA of hip is
 a) articular cartilage b) joint capsule
 c) muscles d) all are correct
- (xii) Select the gene for involving in RA
 a) HLA DRB1 b) RH
 c) TNF d) HLA B27
- (xiii) Select the disease where the gamekeeper's thumb will be seen
 a) Rheumatoid arthritis b) osteoarthritis
 c) Infective arthritis d) Osteomyelitis
- (xiv) Select the arthritis where interstitial lung disease will be seen
 a) Rheumatoid arthritis b) osteoarthritis
 c) Infective arthritis d) gout arthritis
- (xv) Identify the parameter does FiO₂ directly affect in mechanical ventilation?
 a) Tidal Volume b) Respiratory Rate
 c) Oxygen Concentration d) Inspiratory Pressure

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Illustrate about the different areas of auscultation (3)
3. Differentiate between the restrictive and obstructive lung disease (3)
4. Explain about breathing discomfort (3)
5. Write about the complications of diabetes (3)
6. Illustrate about senile dementia. (3)

OR

Write about the difference between acute and chronic inflammation (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Explain about the physiotherapeutic management of peri-arthritis shoulder. (5)
8. Discuss about the Ankle brachial index. (5)
9. Illustrate about the exercise prescription of Diabetic patients. (5)

10. Discuss about the supplemental oxygen therapy (5)
 11. Explain about the physiological adaptations to exercise training for coronary heart disease patients (5)
 12. Illustrate about the physiotherapeutic management of infective arthritis. (5)
- OR**
- Write about the management of deformity after rheumatoid arthritis. (5)
