

**MASTER OF PHYSIOTHERAPY
FIRST SEMESTER
ADVANCE MEDICAL SCIENCES
MPT – 201**

**SET
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

Time: 30 min.

(Objective)

Marks: 20

Choose the correct answer from the following:

1×20=20

- All of the following are members of Lipids except
 - Cholesterol
 - Triglyceride
 - HDL
 - Acetylcholine
- Diabetes mellitus is diagnosed when :
 - Serum albumin is high
 - Blood glucose is high
 - Serum Creatinine is high
 - HDL is high
- Members of Lipid profile are all of the following except :
 - HDL
 - LDL
 - Thyroxine
 - VLDL
- Cardiac Troponin is a marker for :
 - Myocardial infarction
 - Diabetes mellitus
 - Hypertension
 - Hypotension
- "Turban bandage" is used for fracture of :
 - Femur
 - Patella
 - Tibia
 - Mandible
- Which assessment of blood glucose will confirm Diabetes mellitus :
 - FBS
 - Any finding 200mg% or more
 - PPBS
 - PPBS
- This type of bandage typically look like a tightly wrapped cylinder of white cotton gauze
 - Roller bandage
 - Tubular bandage
 - Crepe bandage
 - Triangular bandage
- Which manoeuvre is used in tackling a choking adult
 - Crede's maneuver
 - Heimlich maneuver
 - Kocher maneuver
 - Valsalva maneuver
- How many rescue breathes are given after 30 compressions in CPR
 - 1
 - 2
 - 3
 - 4

10. The central ray for projection for routine projection of elbow is
 - a. Lateral epicondyle
 - b. Medial epicondyle
 - c. Superior radioulnar joint
 - d. Inferor radioulnar joint
11. It can provide compression and can immobilize or support the knee and elbow joints.
 - a. Roller bandaging
 - b. Triangular bandaging
 - c. Tubular bandaging
 - d. All
12. Scaphoid X rays are best in
 - a. Radial projection
 - b. Ulnar projection
 - c. Anterior projection
 - d. All
13. What is the mechanism of action of succinylcholine?
 - a. Inhibition of acetylcholinesterase
 - b. Non-depolarizing neuromuscular blockade
 - c. Depolarizing neuromuscular blockade
 - d. Inhibition of potassium channels
14. Succinylcholine primarily acts on which type of muscle receptors?
 - a. Alpha-adrenergic receptors
 - b. Beta-adrenergic receptors
 - c. Nicotinic acetylcholine receptors
 - d. Muscarinic acetylcholine receptors
15. Which of the following medications is often prescribed to manage symptoms of Raynaud's phenomenon?
 - a. Calcium channel blockers
 - b. NSAIDs
 - c. Corticosteroids
 - d. Beta-blockers
16. Which form of Vitamin D is synthesized in the skin upon exposure to sunlight?
 - a. Vitamin D1
 - b. Vitamin D2
 - c. Vitamin D3
 - d. Vitamin D4
17. Botulinum toxin primarily exerts its effect by
 - a. Blocking Ach release
 - b. Increasing Ach release
 - c. Inhibiting acetylcholinesterase activity
 - d. Enhancing Ach receptor
18. Botulinum toxin injections are commonly used for the treatment of
 - a. Muscle hypertrophy
 - b. Muscle spasticity
 - c. Muscle atrophy
 - d. Muscle weakness
19. What is the mechanism of action of dantrolene?
 - a. Inhibition of Acetylcholine
 - b. Blocks calcium release
 - c. Enhancement of GABA transmission
 - d. Inhibition of dopamine
20. Quinine is known to affect muscle function primarily by:
 - a. Increasing muscle contractility
 - b. Enhancing muscle relaxation
 - c. Stimulating muscle growth
 - d. Reducing muscle excitability

(Descriptive)

Time: 2 hrs 30 min

Marks: 50

[Answer question no.1 & any four (4) from the rest]

1. Write an essay on Carbohydrates 10
2. Write an essay of Lipids 10
3. Write about the radiological procedure, patient preparation, and patient positioning for forearm radiological investigations 4+3+3
=10
4. What is basic life support? Write about compression and breathing techniques in basic life support. Also, mention about AED (Automated externaldefibrillator) 2+4+4
=10
5. What is bandaging? How many different types of bandages are present? What is triangular bandaging? 2+4+4
=10
6. Write the definition of succinylcholine (ScH). Mention its function in muscle relaxation. 5+5=10
7. Write the pharmacological management of the cardiovascular system. 10
8. What is anesthesia? Mention its type with examples. Elaborate the stages of anesthesia. 2+4+4
=10

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