

Brainware University
Parasat, Kolkata -700125



BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Physiotherapy-2022/B.Physiotherapy-2023/B.Physiotherapy-2024

Course Name – Exercise Therapy - I

Course Code - BPTC203

(Semester II)

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) Find out the line about which movement takes place.
 - a) Inclined plane

b) vertical line

c) axis

- d) plane
- (ii) Identify the planes and axis for hip flexion.
 - a) vertical plane & horizontal axis
- b) sagittal axis & frontal plane
- c) frontal axis & sagittal plane

- d) horzontal plane & vertical axis
- (iii) Select the correct option In isometric type of contraction.
 - a) tone is equal/same

b) tone will change

c) length will change

- d) length will same/equal
- (iv) Express the progression for De lorme & Watkins technique.
 - a) Once in a week

b) 2 - 3 month

c) yearly

- d) Each day
- (v) Identify the agonist muscle during elbow flexion.
 - a) Biceps brachi

b) Triceps

c) Rhomboids

- d) Trapizius
- (vi) Choose the close kinematic chain exercise.
 - a) Sit to stand

b) elbow flexion

c) squating

d) Plantar flexion

- (vii) Select the friction technique
 - a) Circular friction

b) Horizontal friction

c) both 1 & 2

d) angular friction

| | (viii) Choose clapping is an example of | | | | | | |
|---|--|---|----------|--|--|--|--|
| | a) Percussion | b) Pressure | | | | | |
| | c) Stroking | d) Vibration manipulation. | | | | | |
| | (ix) Express the knee flexor muscle | | | | | | |
| | a) Hamstring | b) Quadriceps | | | | | |
| | c) Biceps | d) Triceps | | | | | |
| | (x) Write the example of isotonic exercise. | | | | | | |
| | a) Biceps curl with dumble | b) Elbow flexion with theraband | | | | | |
| | c) both 1 & 2 | d) squating | | | | | |
| | (xi) Write 5 RM load refers to | | | | | | |
| | a) A weight that can be lifted less than 5 times | b) A maximum weight that can be lifte | d for | | | | |
| | as it is too heavy | minimum 5 times | | | | | |
| | c) A minimum weight that can be lifted for | d) A weight that can be lifted only 5 tir | mes and | | | | |
| | maximum 5 times | is too heavy to be lifted more than : | | | | | |
| | (xii) Name the open kinematic chain exercises. | Should Street To the Street Contact | | | | | |
| | a) Dorsiflexion | b) squat | | | | | |
| | c) push ups | d) plank | | | | | |
| | (xiii) Select the grade 0 of MMT | 5/ p.s.m | | | | | |
| | | b) Flicker | | | | | |
| 9 | a) No contraction c) Moderate | d) Very low | | | | | |
| | (xiv) State the correct option for GRF acting on human body. | | | | | | |
| | | | | | | | |
| | a) Gravity resistance force | b) Gravity reaction force | | | | | |
| | c) Ground resistance force d) Ground reaction force (xv) Choose the normal end-feel of knee joint. | | | | | | |
| | | to the party of the state of the state of the | | | | | |
| | a) Hard | b) Empty | | | | | |
| | c) Soft | d) None of these | | | | | |
| | Gr | oup-B | | | | | |
| | | Type Questions) | 3 x 5=15 | | | | |
| | (SHOTE AHSWEI | Type Questions) | | | | | |
| | 2. Describe the passive insufficiency of a muscle wit | h ovamplo | (3) | | | | |
| | Restate about concentric and eccentric muscle co | | (3) | | | | |
| | Explain the example of 3rd order lever in human | | (3) | | | | |
| | 5. Discuss the role of breathing during relaxation ex | | (3) | | | | |
| | 6. Explain about the physiological barrier and anato | | (3) | | | | |
| | The state of the s | OR | | | | | |
| | Explain the types of resistance exercise with exan | nple. | (3) | | | | |
| | | | | | | | |
| | Gr | oup-C | | | | | |
| | (Long Answer | Type Questions) | 5 x 6=30 | | | | |
| | | | | | | | |
| | 7. Discuss the procedure of goniometry for measu | ring the glenohumeral joint abduction. | (5) | | | | |
| | 8. Explain the principles of manual muscle testing. | | (5) | | | | |
| | 9. Describe the difference between open and close | ed kinematic chain exercises. | (5) | | | | |
| | 10. Describe the contraindications of massage. | | (5) | | | | |
| | 11. Identify the factors of delayed onset of muscle s | | (5) | | | | |
| | 12. Explain briefly the physiological effects of Massa | age. | (5) | | | | |

| Describe the | concave- | convex | rule | with | example. | diagram. |
|--------------|----------|--------|------|------|----------|----------|
|--------------|----------|--------|------|------|----------|----------|

(5)

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