



BRAINWARE UNIVERSITY

Term End Examination 2025-2026

Programme – B.Physiotherapy-2021/B.Physiotherapy-2022/B.Physiotherapy-2023

Course Name – Orthopedics, Traumatology & Sports Injuries

Course Code - BPTC601

(Semester VI)

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) Select the Green stick fracture is seen in
 - a) Adult
 - b) Children
 - c) At any age
 - d) elderly
- (ii) Indicate the joint commonly involved in syphilitic arthritis
 - a) Hip
 - b) Shoulder
 - c) Wrist
 - d) Knee
- (iii) Select the commonest site of fracture in senile osteoporosis
 - a) Neck of femur
 - b) Shaft of femur
 - c) Radius
 - d) Vertebra
- (iv) Choose the Finkelstein's test is associated with
 - a) De Quervain's disease
 - b) Dupuytren's contracture
 - c) Carpal tunnel syndrome
 - d) None of these
- (v) Estimate the duration on which the evidence of osteomyelitis will occur in a x-ray
 - a) After 2 weeks
 - b) After 4 weeks
 - c) After 1 weeks
 - d) After 3 weeks
- (vi) Identify the neurological condition where cock-up splint is used
 - a) Radial nerve palsy
 - b) Ulnar nerve palsy
 - c) Median nerve palsy
 - d) Axillary nerve palsy
- (vii) Tell the nerve root value for knee jerk
 - a) L3, L4
 - b) L4, L5
 - c) L1, L2
 - d) L2, L3
- (viii) Select the mechanism of injury of anterior talofibular ligament is
 - a) eversion
 - b) inversion
 - c) combined plantar flexion and inversion
 - d) combination of dorsi flexion and inversion
- (ix) Record which of the following factors may influence the success of arthroplasty

- a) Age of the patient
c) Ethnicity of the patient
(x) Select the condition where onion peel appearance is seen On an x-ray
a) Osteoclastoma.
c) Ewing's sarcoma
(xi) Identify the muscle tested by lift-off test
a) Subscapularis
c) Teres major
(xii) Identify the gait which may occur due to the Injury to superior gluteal nerve
a) Trendelburg's gait
c) Anatalgic gait
(xiii) Tell how does immobilization influence fracture healing
a) It accelerates healing by promoting blood flow
c) It prevents the formation of a callus
(xiv) Select the first sign of compartment syndrome
a) Pain on passive stretch
c) Tingling
(xv) Select the appropriate answer Contracture of posterior capsule of shoulder will cause limitation in
a) Shoulder adduction and internal rotation
c) Abduction
b) Gender of the patient
d) All of the following options
b) Osteosarcoma.
d) Osteochondroma
b) Teres minor
d) Infraspinatus
b) Scissoring gait
d) Foot drop gait
b) It allows the bones to heal in proper alignment and stability
d) It is not relevant to bone healing
b) Loss of pulse
d) Loss of movements
b) Extension
d) Circumduction

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Illustrate the degeneration of the nucleus pulposus in the etiology of disc herniation. (3)
3. Describe the neurological symptoms associated with cervical rib. (3)
4. Explain how quadrilateral sockets works after transfemoral amputation. (3)
5. Classify bone tumors according to WHO. (3)
6. Explain about any three extra-articular manifestations of RA. (3)

OR

Classify the level of amputation. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Classify the etiologies of spondylolisthesis. (5)
8. Explain clinical features and management of Congenital Talipes Equino Varus (CTEV). (5)
9. Differentiate between rheumatoid arthritis and ankylosing spondylitis. (5)
10. Report the complications associated with amputation. (5)
11. Describe Avascular Necrosis in detail. (5)
12. Explain the parts of the transtibial prosthesis. (5)

OR

Focus on the use of rheumatoid factor and anti-citrullinated protein antibodies in evaluating rheumatoid arthritis. (5)
