REV-01
BPT/45/23/28

2023/06

SET B

BACHELOR OF PHYSIOTHERAPY
SIXTH SEMESTER
BIOENGINEERING
BPT – 604

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs. **Full Marks: 70**

(Objective)

Time: 30 min. **Marks: 20**

Choose the correct answer from the following: ***1×20=20***

1. This type of knee joint in knee ankle foot orthosis allows flexion and prevent hyperextension-
   a. Straight set knee joint
   b. Polycentric knee joint
   c. Drop knee
   d. Posterior offset knee

2. By pushing foot on the .....a person can turn the wheelchair back , allowing casters to rise
   a. Spikes
   b. Backrests
   c. Wheels
   d. Tilt Bars

3. Socket contruction in lower limbs requires measurememt of .....legs
   a. Affected Leg
   b. Unaffected Leg
   c. Both
   d. All

4. Prof PK Sethi develop which foot
   a. Sach foot
   b. Jaipur foot
   c. Multiaxis feet
   d. Powered Foot

5. Foot drop mainly occurs due to
   a. Dorsiflexors
   b. Planterflexors
   c. Evertors
   d. Invertors

6. A window is cut along medial wall of the socket to allow bulbous end.types.
   a. Symes's prosthesis
   b. Jaipur Foot
   c. Dynamic response
   d. Supracondylar cuff

7. These are devices that are used for safer transfer of patients by raising them with minimal effort of helper
   a. Hydraulic lift
   b. Wheelchair lifts
   c. Anti tip bursae
   d. Casters

8. Which walker has swivel joints present between vertical and horizontal turns
   a. Rollator
   b. Reciprocal walker
   c. Gutter walker
   d. Rollater

9. .....maintains thumb in abduction and partial rotation under second metacarpal
   a. C splint
   b. Boston brace
   c. Dynamic Splint
   d. Helocipoter splint

10. Which of these is a modular orthosis
   a. Knight brace
   b. Boston brace
   c. Lumbosacral brace
   d. All

11. The cosmetic appearance is produced by foam covers
   a. Endoskeletal cosmesis
   b. Exoskeletal cosmesis
   c. Both
   d. All

12. This were used for amputees who wanted to be active-
   a. Sach foot
   b. Hybrid foot
   c. Dynamic foot
   d. Multi axis foot

13. This belt provdes mediolateral stability
   a. Silsesian Band
   b. Pelvic band
   c. Socket
   d. Suspension

14. What prosthesis is used for transhumeral and transradial amputations?
   a. Myoeletric prosthesis
   b. Body powered prosthesis
   c. Hybrid system
   d. Externally powered body system

15. This system uses potential muscle strength and joint movement
   a. Myoelectric prosthesis
   b. Body powered prosthesis
   c. Hybrid system
   d. Externally powered body prosthesis

16. Three point system in orthosis was given by
   a. Jordan
   b. Milwakee
   c. Tyson
   d. All

17. This gait pattern is used when one side lower extremity (LE) is unable to bear any weight
   a. 1 point gate
   b. 2 point gate
   c. 3 point gate
   d. 4 point gate

18. Gutter walker is given when patient has problems with
   a. Shoulder
   b. Forearm
   c. Arm
   d. Wrist

19. This splint maintains the metacarpophalangeal joint in 90°flexion and interphalangeal joint in extension
   a. Knuckle bender splint
   b. Cock up splint
   c. Aeroplane splint
   d. Radial thumb gutter splint

20. This brace is given for growing children with dynamic scoliosis.
   a. Milwaukee
   b. Minnerva
   c. Halo cervical orthosis
   d. Cervical Collar

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Descriptive

Time : 2 hrs. 30 min. Marks : 50

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

1. Write in details about Milwaukee brace. Add all the requisite diagrams of milwakee brace. **10**

2. What is orthosis? Mention about three point system of orthosis? Write the principle of orthosis. **10**

3. Write in details regarding the four categories of upper limb prosthetic systems. **10**

4. Write in steps for prescribing calipers. Write about the construction and working of above knee prosthesis **10**

5. What is wheelchair? Explain about the different parts of wheelchair in details. **10**

6. What is crutch? Write about the working of axillary crutch in details? Write about the measurement of shoes on during crutch. **10**

7. What is cock up splint? What is dynamic mcp flexion? Explain both in details. **10**

8. What is tricycle? Mention about different knee joints in KAFO . **10**

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