REV-01
BPT/01/05

2025/06

SET A

BACHELOR OF PHYSIOTHERAPY
SIXTH SEMESTER
BIOENGINEERING
BPT – 604 [REPEAT]

[USE OMR SHEET FOR OBJECTIVE PART]

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

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

Objective

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

1. The opening of shoe located in region of metatarsal heads is
   a. Vamp b. Throat
   c. Toe box d. Tongue
2. The widest part of sole that is located in region of metatarsal heads is
   a. Sole b. Ball
   c. Shank d. Toe spring
3. Silesian bands are mostly present in
   a. Ankle foot orthosis b. Knee ankle foot orthosis
   c. Hip knee ankle foot orthosis d. All
4. Which of the following allows flexion and prevent hyperextension
   a. Straight set knee joint b. Polycentric knee joint
   c. Drop lock d. Cam lock
5. This type of orthosis has a planter transverse convexity
   a. Rocker bar b. Outsole
   c. Metatarsal bar d. All
6. Which of the following splint maintains the hand in abduction and external rotation
   a. C splint b. Knuckle bending splint
   c. Cock up splint d. Aeroplane splint
7. An injury to the distal interphalangeal joint results in .....
   a. Mallet finger b. Swan neck deformity
   c. Boutonniere deformity d. all
8. Which type of walker consists of forearm platform in the crutch
   a. Foldable walker b. Gutter walker
   c. Reciprocal walker d. All
9. De Quervain's Tenosynovitis is mostly treated by
   a. Cock up splint b. Radial thumb gutter splint
   c. Opponens splint d. Mallet finger orthosis

10. Growing wheelchair is mostly aimed at
    a. Children between 2-3 years
    b. Children between 3-5 years
    c. Children between 6-12 years
    d. Children between 12-15 years

11. This type of brace is given for growing children with dynamic scoliosis
    a. Minerva cast
    b. Lumbosacral orthosis
    c. Sternal occipital mandibular immobilizer
    d. Milwaukee brace

12. Jaipur foot was developed by .....
    a. Prof PK SETHI
    b. Prof Senthil
    c. Prof Hari Dayar
    d. Prof Minessota Kayal

13. How many hooks are present in voluntary opening hooks of upper limb prosthesis ?
    a. 1
    b. 2
    c. 3
    d. 4

14. This system in upper limb prosthesis allows patient's own muscle strength and joint movement
    a. Externally powered system
    b. Hybrid system
    c. Passive system
    d. Myoelectric system

15. These uses muscle contractions as a signal to activate the functions
    a. Externally powered system
    b. Hybrid System
    c. Passive system
    d. Myoelectric system

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

17. 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

18. .....maintains thumb in abduction and partial rotation under second metacarpal
    a. C splint
    b. Boston Brace
    c. Dynamic splint
    d. Helicopter splint

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

20. A window is cut along medial wall of the socket to allow bulbous end types
    a. Symes prosthesis
    b. Jaipur foot
    c. Dynamic response
    d. Supracondylar response

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Descriptive

Time : 2 hrs. 30 min. **Marks : 50**

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

1. Name the components of lower part of orthosis? Write about quarter and shank in details **10**

2. What are the different types of Knee locks in Knee ankle foot orthosis? Mention in details **10**

3. What is walker? What are the different types of walker **10**

4. What is wheelchair? Mention the names of different parts of wheelchair? Write about tilt bars. **10**

5. Write about above elbow prosthesis in details. Add diagrams **10**

6. What is Philadelphia collar? Write the indications of Philadelphia collar? Add diagrams **10**

7. What is axillary crutch? Write about the measurement of axillary crutch with shoes on. Add diagrams where necessary. **10**

8. What is splint? Write the classification of splints/ Write the indications of splints. Enlist the functions of splint. **10**

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