

REV-01
BPT/02/05

2024/06

**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: $I \times 20 = 20$

1. Three point system in orthosis was given by
 - a. Jordan
 - b. Milwaukee
 - c. Tyson
 - d. None
2. This gait pattern is used when one side lower extremity (LE) is unable to bear any weight
 - a. 1 point gait
 - b. 2 point gait
 - c. 3 point gait
 - d. 4 point gait
3. Gutter walker is given when patient have problems with the
 - a. Shoulder
 - b. Forearm
 - c. Arm
 - d. Wrist
4. This is the opening of shoe located at base of orthosis
 - a. Vamp
 - b. Throat
 - c. Toe box
 - d. Tongue
5. It is space between outer sole and floor, which helps to produce a rocker effect
 - a. Sole
 - b. Ball
 - c. Shank
 - d. Toe spring
6. In halo cervical orthosis, cranial ring is secured to skull using how many rings
 - a. 1
 - b. 2
 - c. 3
 - d. 4
7. Which prosthetic system uses the patients own body residual limb or body strength
 - a. Passive system
 - b. Body powered system
 - c. Externally powered system
 - d. A hybrid system
8. PK sethi and team developed
 - a. Dynamic response
 - b. Jaipur foot
 - c. Syme's prosthesis
 - d. Multi Axis feet
9. Missing limb can be replaced by
 - a. Orthosis
 - b. Prostheses
 - c. Splint
 - d. All

10. Whole of lower limb with one side of illium removed
 - a. Symes amputation
 - b. Lisfranc amputation
 - c. Hind Quarter amputation
 - d. Hip Disarticulation
11. This is designed to allow unilateral forward movement of one side
 - a. Gutter walker
 - b. Reciprocal walker
 - c. Rollator
 - d. All
12. In tredelenberg test, which muscle is weak
 - a. Gluteus maximus
 - b. Gluteus minimums
 - c. Steppage gait
 - d. Antalgic gait
13. Measurement is taken from ulnar styloid to a point 20 cm lateral to heel of shoe
 - a. Axillary crutch
 - b. Standard canes
 - c. Elbow crutch
 - d. Gutter crutch
14. It has a planter transverse convexity which changes stance phase loading
 - a. Metatarsal bar
 - b. Rocker bar
 - c. Metatarsal pads
 - d. Internal heel orthosis
15. Swivel joints is present between vertical and horizontal bars
 - a. Foldable walker
 - b. Gutter walker
 - c. Reciprocal walker
 - d. Rollator
16. This cable system is called
 - a. Juxtacable
 - b. Selsesian Bags
 - c. Bowden dual control system
 - d. Harrison hooks
17. Propulsion of inside or standard rim turns indirection in hemiplegic wheelchair
 - a. Same
 - b. Opposite
 - c. All
 - d. Static
18. Joystick power seating system have.....seat positions
 - a. 4
 - b. 5
 - c. 6
 - d. 7
19. Hoists must have capacity to lift weight of.....kg in wheelchair maintainence
 - a. 90-100
 - b. 100-120
 - c. 100-150
 - d. 150-200
20. Intetarsal amputation is also callecd
 - a. Syme''s amputation
 - b. Chopart''s amputation
 - c. Lisfranc amputation
 - d. Krukenberg amputation

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(Descriptive)

Time : 2 hrs. 30 min.

Marks : 50

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

1. What is prosthesis? Write about parts of a prosthesis. Explain the difference between exoskeleton and endoskeleton prosthesis 2+4+4
=10
2. What is knee ankle foot orthosis? Mention the different knee joints and knee locks in Knee ankle foot orthosis. 3+7=10
3. What is crutch? How many types of crutch are present? Write about axillary crutch in details 2+4+4
=10
4. What are the four different categories of upper limb prosthetic system? Explain in details 10
5. What is Milwaukee brace? Write the frame of Milwaukee brace how it is designed? In what conditions it is used? Write the advantages and disadvantages of milwaukee brace? 2+4+4
=10
6. What is wheelchair? Mention any two different types of wheelchair? Write function and propulsion of a tricycle? 2+4+4
=10
7. What is cane? What are the different types of cane ? What is hemiwalker/ Write about the measuring canes. 2+2+2+4
=10
8. What is splint? Write the classification of splint? What are the general functions of splint? What is Dynamic MCP splint? 2+4+4
=10

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