

**BACHELOR OF PHYSIOTHERAPY
SIXTH SEMESTER
BIOENGINEERING
BPT - 604**

[USE OMR SHEET FOR OBJECTIVE PART]

**SET
A**

Duration: 3 hrs.

Full Marks: 70

Time: 30 min.

Marks: 20

(Objective)

Choose the correct answer from the following:

$1 \times 20 = 20$

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

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(Descriptive)

Time : 2 hrs. 30 min.

Marks : 50

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

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| 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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