

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

(USE SEPARATE ANSWER SCRIPTS FOR OBJECTIVE & DESCRIPTIVE)

Duration: 3 hrs.

Full Marks: 70

Time: 20 min.

[PART-A: Objective]

Marks: 20

Choose the correct answer from the following:

1×20=20

1. The functional unit of upper limb prosthesis is called
 - a. Wrist joint
 - b. Socket
 - c. Harness
 - d. Terminal Device
2. Bulbous end is present in
 - a. Syme prosthesis
 - b. Sach
 - c. Jaipur foot
 - d. Multiaxis
3. Growing wheelchair is used in
 - a. Adults
 - b. Geriatrics
 - c. Children
 - d. None
4. The lateral wall for transfemoral amputation sets as
 - a. 10°adduction
 - b. 15°adduction
 - c. 20°abduction
 - d. 25°abduction
5. In voluntary closing system , the patients close the device
 - a. pulling cable and harness
 - b. pulling harness and socket
 - c. pulling suspension and cable
 - d. pulling terminal and harness
6. To measure the height of any walking stick, the base of stick should be placed approximately.....from outside of foot
 - a. 15cm
 - b. 20cm
 - c. 25cm
 - d. 30cm
7.is that in which the crutches are advanced and then the legs are passed approximately from outside of foot
 - a. Swing through
 - b. Swing to
 - c. Two point gait
 - d. Non weight bearing
8. Suspension is that.....which is padded rigid steel band exercises posteriorly and laterally fitting with iliac crest
 - a. Sling
 - b. Pelvic Band
 - c. Pelvic band
 - d. All
9.are used by people with limited reach and grip
 - a. Casters
 - b. Projector rims
 - c. Spokes
 - d. Brakes

10. What helps in clearing obstacles?
 a. Tilt bars
 b. Push Rims
 c. Projector
 d. AFO
11. An artificial body part is called
 a. orthosis
 b. prosthesis
 c. Braces
 d. All
12. Cock up Splint is used for
 a. Fractures
 b. Foot drop
 c. Wrist joint
 d. All
13. Minnerva cast is type of
 a. Prosthetic
 b. Upper limb orthosis
 c. Lower limb orthosis
 d. all
14. Halo cervical orthosis has.....pins
 a. 1
 b. 2
 c. 3
 d. 4
15. HKAFO is an extension of
 a. Shoe orthosis
 b. AFO
 c. KAFO
 d. Milwaukee Brace
16. Erb's palsy is treated by
 a. Knucle bender splint
 b. Aeroplane splint
 c. C splint
 d. Opponens Splint
17. Dynamic splints are.....splints.
 a. Static
 b. Moving
 c. All
 d. None
18. Quadruped is a.....legged cane.
 a. 1
 b. 2
 c. 3
 d. 4
19. This system applies corrective or assistive forces, which are implemented at surface of orthosis.....
 a. Principle of Gardiner
 b. Principal of Jordan
 c. Principle of Lilwakee
 d. Principal of Lewett
20. Spasticity is
 a. Hypertonicity
 b. Hypotonicity
 c. Both
 d. None

(PART-B : Descriptive)

Time : 2 hrs. 40 min.

Marks : 50

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

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| 1. Write about different parts of wheelchair with pictures. | 10 |
| 2. a) Myoelectric prosthesis
b) Powered wheelchair | 10 |
| 3. a) Knuckle bender splint
b) C splint | 10 |
| 4. a) What is cane? Write about standard canes
b) Write about internal heel orthosis. | 10 |
| 5. a) Explain about milwakee brace with diagrams
b) Write about axillary crutch in details | 10 |
| 6. What is knee ankle orthosis? Write about different details regarding the knee joint. | 10 |
| 7. a) Explain regarding the above knee prosthesis for transfemoral amputation
b) Foot Drop Splint | 10 |
| 8. a) Solid Ankle cushion feet (SACH)
b) JAIPUR FOOT | 10 |

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