

BACHELOR IN PROSTHETICS AND ORTHOTICS**FIRST YEAR****PAPER VII – PROSTHETICS – I***Q.P. Code: 802407***Time: Three Hours****Maximum : 100 Marks****Answer All questions****I. Elaborate on:****(3 x 10 = 30)**

1. Describe the Biomechanics of Partial Foot Prosthesis with neat diagrams.
2. Write down the complete fabrication process of a transtibial Prosthesis.
3. Describe different types of Prosthetic foot.

II. Write notes on:**(8 x 5 = 40)**

1. What is IPOP? Explain its advantages.
2. Chopart amputation and its Prosthetic management.
3. Draw a labeled diagram of Amputations at foot level.
4. Explain extension prosthesis and its indications.
5. Explain Thigh corset suspension system.
6. Multi-axial foot
7. Patellar tendon bearing Socket.
8. Compare and contrast Endoskeletal and Exoskeletal BK prosthesis.

III. Short answers on:**(10 x 3 = 30)**

1. What is Phantom limb Pain?
2. What are the advantages of using Prosthesis?
3. What is Static alignment?
4. Write short note on SAFE Foot.
5. Define Pressure sensitive area and write down the names in BK stump.
6. Define Total contact socket.
7. Draw a leveled diagram showing the different parts and components of an endoskeletal transtibial prosthesis.
8. Write short note on STEN foot.
9. What is Boyd amputation?
10. Write short note on PTB-SCSP socket.

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Time: Three Hours

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Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. What is alignment? Describe different alignment methods used in Prosthetics.
2. Define gait deviations. Explain the common gait deviations observed in transtibial amputee while using the Prosthesis.
3. What are the various types of Transtibial Prosthesis? Explain any one with its measurement and Casting technique.

II. Write notes on:

(8 x 5 = 40)

1. Describe on PTB-SC socket and its prescription criteria.
2. Explain various suspension methods in trans-tibial prosthesis.
3. Write in detail Check out procedure of BK prosthesis.
4. Explain Jaipur Foot with diagram.
5. Draw and describe Canadian type syme's prosthesis.
6. Write a note on Flexible Socket.
7. What are the Functional Characteristics of Energy Storing Foot?
8. Write a note on Pin and Shuttle lock suspension system.

III. Short answers on:

(10 x 3 = 30)

1. Define Neuroma.
2. Write down the Functional Levels of amputee.
3. Seattle foot.
4. Define amputation. Give any five major causes of amputation in India.
5. Define Pressure Tolerant area and write down the names in BK stump.
6. PTB socket.
7. Write down the advantages of endoskeletal BK prosthesis over exoskeletal prosthesis.
8. Lisfranc amputation.
9. Quantum foot.
10. Close ended socket.
