

**FEDERAL UNIVERSITY OF TECHNOLOGY OWERRI**  
**SCHOOL OF HEALTH TECHNOLOGY**  
**PROSTHETICS AND ORTHOTICS DEPARTMENT**

**RAIN SEMESTER EXAMINATION: 2018/2019 ACADEMIC SESSION.**

**POT 308: Lower Limb Prosthetics II TIME : 2 HOURS**

**Instruction: Answer any four questions.**

- 1a. Use diagram to show different components of a trans-femoral prosthesis. (5marks)
- b. Describe different prosthetic feet options. (5marks)
- c. Describe how you can laminate a trans-femoral prosthetic socket and state how you can care for a socket (5marks)
  
- 2a. Describe any three ways of achieving suspension for trans-femoral prosthesis. (5marks)
- b. Outline 5 different gait abnormalities/faults that can be seen in a trans-femoral prosthesis under the following heading: i. name of fault ii, causes iii, Description of fault. (5marks)
- c. Describe how to take measurement for lamination of a trans-femoral socket. (5marks)
  
- 3a. What are the components of a hip disarticulation prosthesis (5marks)
- b. Describe how to take measurement/impression for a hip disarticulation prosthesis interface (5marks)
- c. Outline the functions of a trans-femoral prosthesis. (5marks)
  
- 4a. List the components of knee disarticulation prosthesis. (5marks)
- b. Write briefly on the listed components above. (4marks)
- c. State two (2) general features of a knee disarticulation stump (2marks)
- d. Which type of prosthetic knee is suitable for a knee disarticulation amputee and why? (4marks)
  
- 5a. State the basis on which prosthetic knees are classified. (5marks)
- b. Give two (2) each of the advantages and disadvantages of a microprocessor knee (5marks)
- c. State the principle of friction control in mechanical knees. (5marks)