

FEDERAL UNIVERSITY OF TECHNOLOGY OWERRI
SCHOOL OF HEALTH TECHNOLOGY
DEPT OF PROSTHETICS AND ORTHOTICS
RAIN SEMESTER EXAMINATION. SESSION: 2017/2018

COURSE TITLE: REHABILITATION OF ORTHOPAEDICS. CODE: POT 506. Unit 2.

Time allowed 2hours

Instruction: Answer 4 questions only.

1. A 40 year old man sustained left tibia fracture in a road traffic accident. Full weight bearing was contra-indicated and Axillary crutch was prescribed for his rehabilitation.
 - a) Draw and describe the Axillary crutches you would fabricate for him as regards the material 4.5marks
 - b) Describe the proper positioning of the crutches while standing, use of the crutches while walking, and on the stairs. 10marks
 - d) If he was to use Knee -support crutch, what would be the advantages of the crutch over the Axillary crutches? 3marks
2. You have a choice to make in prescription of either a Pick-up frame or a Walker cane hybrid for rehabilitation of an orthopaedic patient. 17.5marks
 - a) What factors would you consider before choosing Walker cane hybrid over Pick-up frame? 3 marks
 - b) Draw both Pick-up frame and Walker cane hybrid, and enumerate the advantages of Pick-up frame over Walker cane hybrid. 4.5marks
 - c) Describe the proper use of Pick-up frame by osteoarthritis patient. 5marks
 - d) Which kind of patients would you advice to use Gutter frame in place of Pick-up frame. 2marks
- 3) Describe in detail, the uses of parallel bars. 8marks
 - b) Draw a single point cane and briefly describe the parts and their functions. 3 marks
 - c) What are the advantages of parallel bars over wheelchair? 3marks
 - d) Describe the use of cane on stairs. 3.5marks
4. Which types of neuromuscular disorders that would need the use of wheelchair ambulation? 3.5marks
 - b) Mention types of wheelchair and describe various parts of a typical wheelchair. 10marks
 - c) What are the advantages of motorized wheelchair over manual wheelchair? 4marks
5. Describe ambulation in orthopaedic rehabilitation in relation to levels of weight bearing? 6marks
 - b) What are the benefits of ambulation to orthopaedic patient? 2marks
 - c) What factors would you consider while assisting an orthopaedic patient in ambulation, and what makes this assistance high risk? 4.5marks
 - c) What are the advantages of a scooter over motorized wheelchair? 5marks