

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

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

**POT 310: PLASTER AND CASTING TECHNIQUES II TIME: 2 HOURS**

**Answer Questions 1 and any other three.**

- 1a. A 27 year old man had a fracture of the cervical spine. What type of cast can be used to manage him? (1 mark)
- b. What are the procedure of application, special precautions, complications and follow-up for the cast mentioned in (1a) above (7marks)
- c. Discuss hyper extension jacket (cast) under the following: (i). Indications (ii). Procedure of application (iii). Special precautions (iv). Complications (v). Follow-up (7marks)
- 2a. Outline any 5 principles of cast application and state the rationale for each principle. (5marks)
- b. Describe Colles' fracture cast under the following heading: (i). Indication( ii). Method of application (iii). Special precautions (iv). complications v follow-up (7marks)
- c. Use diagram to show the difference between Colles' fracture cast and scaphoid cast (3marks)
- 3a. What are upper limb slabs? (3marks)
- b. Outline the procedure of application and indications for upper limb slabs (5marks)
- c. Discuss shoulder spica cast under the following headings: (i) indications (ii) procedure of application (iii) special precautions iv complications v follow-up (7marks)
- 4a). With the aid of a diagram, describe the various types of below knee cast. (8 marks)
- (bi). Outline the steps in the application of boot cast as well as the equipments used (6marks)
- (bii). At what degree should the knee and foot be flexed when applying above knee cast. (1mark).
- 5 (a). List 2 indications for the following types of cast. (i) Hip spica. (2marks) (ii). Short leg cast. (2 marks)
- (iii). Leg cylinder cast( 2marks). (b). Discuss the cast care instructions given to patients after cast application. (4marks)
- (c). List and explain 2 equipments for cast removal. (5 marks)