

# ORTHOPAEDIC CLINICAL QUIZ

The following questions are based on the photographs and images provided. Answers and further information are available in pages 90-91

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## Question 1

This is a radiograph of the right hand of a two-year-old child.

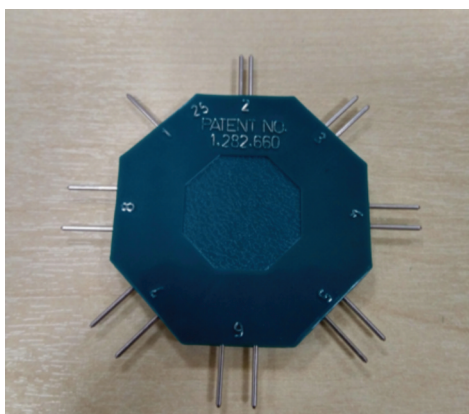
- Describe two (2) radiological abnormalities. (2 marks)
- Name this condition. (1 mark)
- Name and briefly outline the classification for this condition. (4 marks)
- Classify the condition in this child. (1 mark)
- Name two surgical options for this condition. (2 marks)

## Question 2

This is a diagram of an implant used in orthopaedic surgery.



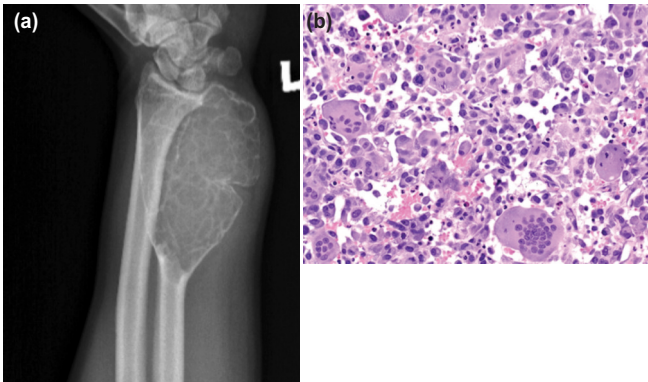
- Identify this implant. (1 mark)
- Mention four (4) physical characteristics of this implant. (4 marks)
- Outline how this implant functions. (2 marks)
- Name one (1) biomechanical function that cannot be achieved by this implant. (1 mark)
- Name two (2) surgical indications for the use of this implant. (2 marks)



## Question 3

This is a photograph of a device used in clinical examination.

- Identify the device. (1 mark)
- Name the clinical parameter which is measured by this device. (1 mark)
- Briefly describe how this device should be used. (4 marks)
- What is the normal value for the measured parameter in hands? (1 mark)
- Name any three (3) clinical conditions in which the measurement may be abnormal. (3 marks)



#### Question 4

Image (a) is the radiograph of a distal forearm, and Image (b) shows the histological features of the mass noted in A.

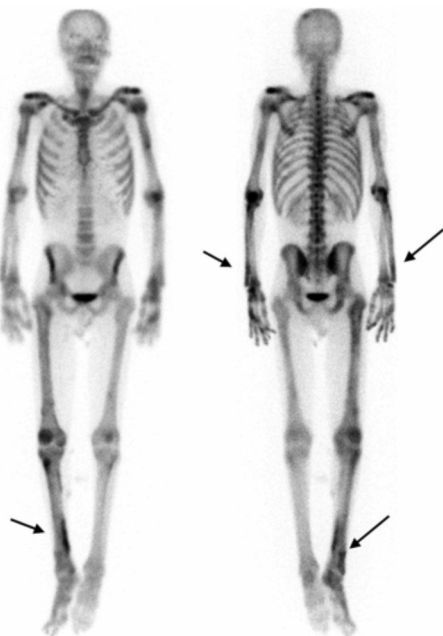
- Mention four (4) radiological abnormalities in Image (a). (4 marks)
- Name the most likely diagnosis based on Images (a) and (b). (1 mark)
- Name the staining represented by Image (b). (1 mark)
- Name two (2) important findings in Image (b). (2 marks)
- Name one (1) radiological investigation to determine the local extent of this tumour. (1 mark)
- Name a radiological grading for this tumour. (1 mark)



#### Question 5

This radiograph depicts an ulna fracture that has been fixed.

- Name this technique of fixation. (1 mark)
- Briefly describe the principle of this fixation. (2 marks)
- Mention one (1) contraindication for this fixation. (1 mark)
- List four (4) ways in which the fixation could have been improved. (4 marks)
- List two (2) other options for fixation of this fracture. (2 marks)



#### Question 6

The image shows an imaging modality.

- Name this investigation. (1 mark)
- Briefly state the principle on which this investigation is based. (2 marks)
- Name the three (3) phases involved when studying bone and soft tissues using this investigation. (3 marks)
- Name one (1) dye which is commonly used. (1 mark)
- List three (3) bone pathologies for which this investigation is useful. (3 marks)