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.

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

Question 2

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

a) Identify this implant. (1 mark)
b) Mention four (4) physical characteristics of this implant. (4 marks)
c) Outline how this implant functions. (2 marks)
d) Name one (1) biomechanical function that cannot be achieved by this implant. (1 mark)
e) 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.

a) Identify the device. (1 mark)
b) Name the clinical parameter which is measured by this device. (1 mark)
c) Briefly describe how this device should be used. (4 marks)
d) What is the normal value for the measured parameter in hands? (1 mark)
e) 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.

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

Question 5

This radiograph depicts an ulna fracture that has been fixed.

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

Question 6

The image shows an imaging modality.

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