**Question 1**

Avascular necrosis:

Select one:

a. Affects the cancellous bone and marrow in medullary infarcts

b. Is improved by administration of corticosteroids

c. Is never painful

d. Occurs infrequently in those with sickle cell anaemia

Answer A. Robbins 8th Edition pg 1221

**Question 2**

Bony metastases least often originate from carcinoma of the:

Select one:

a. Kidney

b. Testis

c. Prostate

d. Breast

Answer B. Robbins 8th Edition pg 1235

**Question 3**

During fracture healing, the bony callus is produced by:

Select one:

a. Osteoclasts

b. Osteoprogenitor cells

c. Chondroblasts

d. Osteoblasts

Answer C. Robbins 8th Edition pg 1220

**Question 4**

In bone fracture healing:

Select one:

a. Haematoma at the fracture site plays little role in the formation of procallus

b. Woven bone forms in the periosteum and the medullary cavity

c. Chondroblasts lay down woven bone over the procallus to repair the fracture line

d. PTH acts directly on osteoclasts to increase absorption

Answer B. Robbins 8th Edition pg 1219

**Question 5**

In osteoarthritis:

Select one:

a. There is a marked synovial reaction

b. Heberden nodes are characteristic in men

c. Osteophytes develop on top of the articular surface

d. Chondrocytes play a role in cartilage destruction

Answer D. Robbins 8th Edition pg 1236

**Question 6**

Regarding fracture healing, which statement is INCORRECT?

Select one:

a. Lamellar bone precedes woven bone formation

b. Repair tissue reaches its maximal girth at the end of the 2nd or 3rd week

c. Inadequate immobilisation may lead to cartilage formation

d. Capillary loops invade from the periosteum

Answer A. Robbins 8th Edition pg 1219

**Question 7**

The radiographic features of rheumatoid arthritis include all EXCEPT:

Select one:

a. Narrowed joint spaces

b. Juxta-articular bone erosion

c. Abundant osteophytes

d. Joint effusions

Answer C. Robbins 8th Edition pg 1240 figure 26-45

**Question 8**

Which is the principal form of collagen found in bone?

Select one:

a. Collagen type III

b. Collagen type I

c. Collagen type II

d. Collagen type IV

Answer B. Robbins 8th Edition pg 1209 table 26-1

**Question 9**

Which of the following fulfils the diagnostic criteria for rheumatoid arthritis in an adult?

Select one:

a. Morning stiffness in a patient with rheumatoid factor

b. Symmetrical arthritis causing morning stiffness and rheumatoid nodules

c. Rheumatoid nodules, morning stiffness, positive rheumatoid factor and typical X-ray changes

d. Arthritis of hands bilaterally with morning stiffness

Answer C. Robbins 8th Edition pg 1240

**Question 10**

Which one of the following tumours is benign?

Select one:

a. Ewing

b. Desmoplastic fibroma

c. Chondrosarcoma

d. Osteochondroma

Answer D. Robbins 8th Edition pg 1227