858. Blunt head trauma often results in cerebral contusions which:
   a. usually occur at the site of skull trauma
      More commonly contrecoupe.
   b. involve the white matter more than the gray matter
      More commonly injures crowns of gyri.
   c. often progress to intracerebral hemorrhage
   d. Usually resolve in 24 - 48 hrs
      May take days to weeks to resolve.
   e. none of the above
      N/A
Correct answer is: c
Pathologic Conditions - Neurotrauma - Head Injury.
Reference: page 630

859. All of the following statements about subdural hematomas are correct EXCEPT:
   a. associated with contrecoup contusions
      This is a correct statement.
   b. skull fracture is only present in half of the cases
      This is a correct statement.
   c. are more common in elderly patients
      This is a correct statement.
   d. follow a characteristic clinical course
      This statement is false. Subdural hematomas present with a variety of neurological symptoms have been called the great imitator.
   e. generally require evacuation
      This is a correct statement.
Correct answer is: d
Pathologic Conditions - Neurotrauma - Head Injury.
Reference: page 630
870. The vertebral artery can be found in which of the following structures:
   a. foramina transversaria of C7
      The vertebral usually enters the foramina transversaria at the C4 level and C6.
   b. foramina transversaria of C4
      Reference: The cerebral circulation - Cerebrovascular anatomy
   c. foramina transversaria of C1
      There is no foramina transversaria at this level, the artery runs behind the arch of C1 to ascend through the foramen magnum.
   d. within the vertebral canal of the occipital bone
      There is no vertebral canal at the cranial level, the artery is inside the skull.
   e. petrous bone in proximity to the foramen lacerum
      This is the carotid artery, not the vertebral artery.
   Correct answer is: b
   The cerebral circulation - Cerebrovascular anatomy
   Reference: page 620

880. Brain edema may cause all of the following EXCEPT:
   a. rostra-caudal brain shifts
      This is a true statement.
   b. increased intracranial pressure (ICP)
      This is a true statement.
   c. focal alterations of neurologic function
      Edema itself has not been directly shown to affect brain function.
   d. low signal intensity on computed tomography due to increased water content
      This is a true statement.
   e. uncal herniation
      This is a true statement.
   Correct answer is: c
   Pathological Conditions - Cerebral Edema
   Reference: page 627
1090. The main functions of articular cartilage are:

a. provide a high friction surface
   Please choose another answer.

b. work as a shock absorber for the underlying bone
   Articular cartilage forms the lining of the bones within joints and provides an almost
   friction-less surface for joint motion. It also serves as a shock absorber for the bones. It is
   not part of the repair process for bones.

c. provide the initial scaffold for fracture callous formation
   Please choose another answer.

d. provide the initial framework for endochondral ossification
   Please choose another answer.

e. maintain limb length
   Please choose another answer.

Correct answer is: b

Musculoskeletal System: Articular Cartilage: Physiologic Function
Reference: page 584

1096. What is the most common joint disorder in humans?

a. Rheumatoid arthritis
   Please choose another answer.

b. Joint sepsis
   Please choose another answer.

c. Osteoarthritis
   Osteoarthritis is by far the most common joint disorder in humans and most other mammalian species.
   It affects roughly 60% of the population over 60 years of age.

d. Systemic lupus erythematosus
   Please choose another answer.

e. Synarthrosis
   Please choose another answer.

Correct answer is: c

Musculoskeletal System: Articular Cartilage: Cartilage Wear and Tear
Reference: page 586
1101. All of the following are functions of the bony skeleton EXCEPT:
   a. mechanical support
      The bony skeleton provides structure attachment points for muscle and protects vital organs.
   b. calcium homeostasis
      Metabolism of calcium and phosphorous is integrally dependent on the stores of calcium and phosphorous in bone. It in fact provides the body with a reservoir of these two chemicals
   c. protection of vital organs
      The bony skeleton provides structure attachment points for muscle and protects vital organs.
   d. phosphorus homeostasis
      Metabolism of calcium and phosphorous is integrally dependent on the stores of calcium and phosphorous in bone. It in fact provides the body with a reservoir of these two chemicals
   e. Iron homeostasis
      The bones are not involved in iron storage or metabolism.
   Correct answer is: e
   Bone; Physiologic Function
   Reference: page 577

890. Which of the following histologic types of basal cell carcinoma is most aggressive?
   a. Superficial
      Please choose another answer.
   b. Morphea type
      This type of tumor is also known as sclerosing or fibrosing type. The tumor elaborates a collagenase enzyme that allows it to spread along peripheral nerves or embryologic planes of fusion.
   c. Pigmented
      Please choose another answer.
   d. Nodular
      Please choose another answer.
   e. Fibroepithelioma
      Please choose another answer.
   Correct answer is: b
   Section on Neoplasms; Basal Cell
   Reference: page 647
901. Which is of the following types of melanoma occurs most frequently?
   a. nodular
      Nodular melanoma is characterized by vertical growth phase which is associated with poor prognosis.
      It accounts for 20-30% of all melanomas.
   b. superficial spreading
      Superficial melanoma is characterized by years of radial growth before vertical growth. It
      accounts for 50-80% of all melanomas.
   c. acral lentiginous
      Acral lentiginous melanoma occurs on the palms of the hand, the soles of the feet, and subungual
      areas of the fingers and toes. It accounts for 10-20% of all melanomas and has the worst 5-year
      survival.
   d. lentigo maligna
      Lentigo maligna is associated with the best prognosis of all melanomas occurring with an incidence
      of 10-15%.
   e. desmoplastic
      Desmoplastic melanoma is an unusual tumor with intense desmoplastic reaction and predilection for
      perineural invasion. It is associated with a high local recurrence rate after excision.
   Correct answer is: b
   Section on Melanoma.
   Reference: page 648

903. Which of the following measurements best predict adequate fluid resuscitation after burn?
   a. respiration
      Respiration does not predict fluid status.
   b. blood pressure
      Blood pressure does not predict fluid status.
   c. heart rate
      Heart rate can be affected by heightened catecholamine response in burns and does not reflect fluid
      status.
   d. urine output
      Urine output is the single most reliable measurement of adequate fluid resuscitation and organ
      perfusion.
   e. central venous pressure
      Central venous pressure reflects the filling pressure of the right side of the heart but does not
      predict filling pressure of the left side of the heart.
   Correct answer is: d
   Section on Thermal Burns
   Reference: page 639