



Mid MSS 2020
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1- Regarding the diaphragm, choose the incorrect statement

- A. Medial arcuate ligaments extends from L1 vertebral body to the L2 transverse process
- B. Right 5th intercostal nerve passes through the diaphragm
- C. Lateral arcuate ligaments are crossing the quadratus lumborum muscles
- D. Bilateral injury to the phrenic nerve could cause death
- E. The right vagus nerve passes through the esophageal opening

Answer :B

2- The costal process in the lumbar region participates in the formation of :

- A. Lamina
- B. Spinous process
- C. Superior articular process
- D. Transverse processes
- E. Pedicle

Answer :D

3- All the following are true about sodium Stibogluconate, Except :

- A. It is First line drug in the treatment of leishmaniasis
- B. Cardiotoxic
- C. Duration of treatment should be extended for 28 days
- D. It Binds to thiol group in parasites
- E. Activate phosphofrucookinase

Answer :E

4- Melasma which is described as excessive melanin production, is treated by :

- A. Hydroquinone
- B. Acentrin
- C. Botulinum
- D. Etanercept
- E. Methoxsalen

Answer :A

5- The most serious side effect of isotretinoin is :

- A. Teratogenicity
- B. Elevation of the liver enzymes
- C. Lipid profile change
- D. Skin destruction
- E. Depression

Answer : A

6- Which of the following corticosteroids is given through intralesional injection to treat Keloid scar?

- A. Triamcinolone
- B. Hydrocortisone
- C. Prednisolone
- D. Dexamethasone
- E. Betamethasone

Answer :A

7- Neuromuscular blockers don't cause effects on CNS because of :

- A. They don't cross BBB
- B. Acetylcholine receptors attach to them and don't let them go
- C. They are more selective for muscular ones
- D. Nicotinic receptors are not found in brain

Answer : A

8- A 78-year-old woman with a fracture in the neck of femur... simple fracture at home...thinning of bone and compression fracture in cervical no.8. No hyperplasia, diabetes, hypocalcemia, or malignancy was noticed. A surgical operation had been done to her. On 4th day after surgical she was found dead by nurse at 5:00 am, what is the best explanation for what happened to her

- A. Acute bronchopneumonia
- B. Acute renal failure
- C. Large pulmonary embolism
- D. Acute congestive heart failure
- E. Acute pulmonary edema

Answer :C

9- A Man has short extremities and normal trunk, his tall is 100 cm, he married to a woman with the same condition and, which of the following best describes this condition:

- A. His life length is shorter
- B. His intelligence level is low
- C. He has mutation in homeobox gene
- D. He has a large head and prominent forehead

Answer : D

10- A 12-years-old boy was brought to the emergency room with acute onset of fever, chills, and throbbing pain of the lower left thigh. Leukocyte count is 18000/ microliter with neutrophilia. X-ray is unremarkable. He has history of soar throat before 10 days . You are a physician on duty, what is the best action to take?

- A. Assure his parents and give him Paracetamol
- B. Plan admission and consult orthopedics for possible acute osteomyelitis
- C. Prescribe antibiotics against Salmonellae
- D. Prescribe antibiotics with wide spectrum for a week then schedule an appointment in a paediatric clinic
- E. Suspect Viral infection

Answer :B

11- A 5 year old girl Numerous fractures with no sever traumas, loose joints and abnormal teeth X-ray images showed thinned bone, what are the other features of this disease?

- A. hearing loss and blue sclera
- B. Long head and prominent forehead
- C. Nicotinic receptors are not found in brain
- D. Osteitis fibrosa cystica
- E. Acute Osteopetrosis

Answer : A

12- An Athlete is swimming daily for 6 months, what are the possible changes most likely happened to his muscle fibers?

- A. Increase in myosin and actin filaments
- B. Increase in muscle fibers
- C. Decrease in muscle mass
- D. Decrease in muscle fibers
- E. Decrease in number of sarcomers

Answer :A

13- Which one of the following is true regarding type 1 muscle fibers?

- A. anaerobic glycolysis is the main source of energy
- B. diameter of muscle fiber 1 larger than muscle fiber type 2
- C. ATP hydrolysis in the myosin heads of muscle fiber 1 is slower than muscle fiber 2
- D. the number of mitochondria in muscle fiber 1 is lesser than muscle fiber 2

Answer :C

14- All of the following need ATP directly except :

- A. The Release acetylcholine from the synaptic terminals
- B. Synthesis of acetylcholine
- C. Binding of acetylcholine to its receptors on the motor end plate
- D. Na⁺/K⁺ pump
- E. Reuptake of Calcium into the sarcoplasmic reticulum

Answer :C

15- Regarding hematogenous osteomyelitis, which one of the following is true

- A. The most common form of hematogenous osteomyelitis on infants and children

- B. Happens mainly in the femur bone > 50 years old patients
- C. Streptococcus group A infection is the main cause
- D. Radiography isn't benefit in this case
- E. if you make a culture, you will obtain 5 or more species of bacteria

Answer :A

16- Which One of the following bones participate in the formation of nasal septum :

Vomer and ethmoid

17- You are on your emergency medicine rotation and are assisting in the examination of a patient who has been in a vehicular accident. You noticed when testing the cranial nerves, the forehead wrinkles on his left face side disappeared. Which cranial nerve is damaged in this case?

Left facial nerve

18- Which one of the following doesn't innervate the upper eyelid?

- A. Supraorbital nerve
- B. Infraorbital nerve
- C. supratrochlear nerve
- D. Infratrochlear nerve
- E. Lacrimal nerve

Answer :B

19- Which of the following doesn't pass through cavernous sinus?

- A. Internal carotid artery
- B. mandibular branch of trigeminal nervr
- C. Maxillary branch of trigeminal nerve
- D. Ophthalmic branch of trigeminal nerve

Answer : B

20- A young child , came to hospital limbing with no history of previous injury , x-ray results came out normal ? What is the best managemt in this case?

- A. Give him anti microbial agent against S.aureus
- B. Greenstick fracture
- C. Send him home with pain medication and reassure his parents

Answer :B

21- During contraction of the muscle, which one of the following is true :

- A. A band length changes
- B. H zone length decreases
- C. Shortening of actin filaments
- D. The distance between two z lines stays the same
- E. I band shortens

Answer :B

22- A 56-year-old male came to the emergency room complaining of bone pain ,the physicians decided for surgery, before the operation,they made the dibucaine number test and they found that the patient has choline esterase deficiency ,which one of the following neuromuscular Blockers is contraindicated for this patient : (this question is very similar to the question written in the exam but the difference is in paraphrasing)

- A. Succinylcholine
- B. Cisatracurium
- C. Mivacurium
- D. Vecuronium
- E. Tubocurarine

Answer :C

23- Which one of the following is true regarding Maffucci syndrome :

- A. Malignant tumor that occurs in small bones
- B. Multiple enchondromas
- C. Happens more frequently in large bones
- D. Multiple enchondromas with skin hemangiomas

Answer :D

24- Which one of the following actions precedes the activation of Dihydropyridine receptors :

- A. Binding of Ca to troponin C

- B. Exposure of the myosin binding sites on the actin
- C. Release of Ca
- D. Transmission of an action potential through T-tubules
- E. Sliding of actin filaments toward the midline

Answer : D

25- A 60-year-old female came to emergency room complaining of severe pain in the hip region, she had been on steroids for 4 years, which one of the following is most likely the diagnosis :

- A Paget disease
- B Osteopetrosis
- C Avascular necrosis of the head of the femur
- D Osteomalacia

Answer :C

26- A 45-year-old male came to the emergency room complaining of bone pain in the hip, after performing X-Ray image for him, it shows sclerotic, lytic and mixed lesions, which one of the following serum measures is compatible with this finding :

- A. Elevated Ca and phosphate
- B. Elevated Ca /normal phosphate
- C. Increase in the Alkaline phosphatase, Ca and phosphate
- D. Decrease in Ca and phosphate
- E. Elevated levels of alkaline phosphatase but normal Ca and phosphate

Answer :E

27- About Fournier gangrene, which one of the following findings is least likely to be found in this case :

- A. Crepitus
- B. The disease progresses Subacutely
- C. Erythema
- D. Aerobic and anaerobic bacteria

Answer :B

28- Which one of the following is false regarding Diabetic Foot infections management :

- A. Consultation with a surgeon with experience in Diabetic Foot infections
- B. Neurological evaluation for the extent of sensory loss
- C. Sending sample for culturing, even if the infection suspicion is low
- D. Empiric antibiotic therapy should be initiated

Answer :C

29- All of the following are False about motor units EXCEPT :

- A. They are defined by the number of nerve fibers that are supplying one muscle fiber
- B. They are not bunched together in the muscle
- C. For fine movements, we need large motor units
- D. The rate of nerve impulses coming out of the spinal cord when the muscles are not contraction is about zero

Answer :B

30- regarding the vertebral column, which one of the following is incorrect statement :

- A. Supraspinous ligaments are attached to the tips of the spinous processes of adjacent vertebrae
- B. Ligamentum flavum is attached to the pedicles of adjacent vertebrae
- C. Supraspinous and interspinous ligaments thicken to form Ligamentum nuchae
- D. Interspinous ligaments connect the spinous processes of adjacent vertebrae

Answer :B

The End