



الطب والجراحة لجنة

MSS Final Exam

دفعة نبض 2019

1) In the visceral smooth muscle?

Select one:

- A. Stretch cannot induce a contraction
- B. Contain myosin kinase and phosphatase enzymes ✓✓✓
- C. Its function is not affected by the autonomic nervous system
- D. The fibers show high electric resistance in-between them
- E. Contain troponin-T

2) Which one of the following is an indication for topical use of potent steroids?

Select one:

- A. Pemphigoid
- B. b. Seborrheic dermatitis.
- C. c. Alopecia areata. ✓✓✓
- D. d. Generalized urticaria.
- E. e. Exfoliative dermatitis.

3) A 70-year-old woman has a lesion on the right side of her face. On examination, the 1.5-cm lesion has regular borders, regular brown to black pigmentation. The lesion is resected and microscopically shows nests of melanocytic cells without prominent red nucleoli. Which of the following mutated genes is most likely to be present in the skin lesion of this woman?

Select one:

- A. Melanocytic nevi. ✓✓✓
- B. Squamous cell carcinoma
- C. Lichen planus
- D. Melanoma
- E. Basal cell carcinoma

4) The most common soft tissue tumor in children is?

Select one:

- A. Pleomorphic fibroblastic sarcoma.
- B. Liposarcoma
- C. Dermatofibroma
- D. Rhabdomyosarcoma ✓✓✓
- E. Synovial sarcoma.

5) Pseudohyphae and germ tube structures can be found in?

Select one:

- A. Epidermophyton
- B. Candida albicans ✓✓✓
- C. Microsporum
- D. Malassezia
- E. Trichophyton

6) Which muscles of mastication move the TMJ from right to left and back?

Select one:

- A. Temporalis and medial pterygoid
- B. Buccinator and medial pterygoid
- C. Medial pterygoid and lateral pterygoid ✓✓✓
- D. Masseter and temporalis
- E. Lateral pterygoid and temporalis

7) All of the following are posteromedial relations of the ankle joint except?

Select one:

- A. Flexor hallucis longus
- B. Posterior tibial vessels
- C. Extensor digitorum longus ✓✓✓

- D. Tibialis posterior
- E. Posterior tibial Nerve

8) Which of the following ligaments present medial to the capsule of the hip joint?

Select one:

- A. Pubofemoral ✓ ✓ ✓
- B. Inguinal
- C. Iliofemoral
- D. Ischiofemoral
- E. Ligamentum teres

9) Which of the following muscles do flexion and abduction of the hip joints?

Select one:

- A. Rectus femoris
- B. Gracilis
- C. Psoas major
- D. Hamstring
- E. Sartorius ✓ ✓ ✓

10) One of the following is NOT true about mature and immature bone?

Select one:

- A. Immature bone forms more rapidly than mature bone
- B. The mineral content is lower in immature bone
- C. The matrix of immature bone has more ground substance
- D. Mature bone contains more cells per unit area than the immature ✓ ✓ ✓
- E. Immature bone has no lamellated appearance

11) The distance between Z-lines is equivalent to the length of the?

Select one:

- A. Sarcomere ✓✓✓
- B. M line
- C. A band
- D. H band
- E. I band

12) The basement membrane located between?

Select one:

- A. papillary and reticular layers of the dermis
- B. epidermis and dermis ✓✓✓
- C. stratum spinosum and stratum granulosum
- D. stratum basale and Stratum spinosum
- E. stratum granulosum and stratum corneum

13) Which of the following pairs is mismatched?

Select one:

- A. Streptococcus pyogenes— erysipelas.
- B. Pseudomonas aeruginosa — scalded skin syndrome. ✓✓✓
- C. Staphylococcus aureus — impetigo.
- D. Propionibacterium acnes — acne.
- E. Streptococcus pyogenes — TSS.

14) Infective Stage of spiralis is?

Select one:

- A. larval eggs
- B. adult female worm
- C. encysted larvae in muscle ✓✓✓

- D. male worm
- E. encysted larvae in stool

15) In hyperhidrosis: Which one of the following is true?

Select one:

- A. It protects against bacterial and fungal in groins or axilla.
- B. It can be made worse by topical aluminum chloride hexahydrate
- C. It produces a pungent smell due to sweat secreted by apocrine glands.
- D. Excessive sweating is reduced by a topical deodorant.
- E. In the axilla, it may respond to local injection of botulinum toxin.

✓✓✓

16) In march, a nursery school reports an outbreak among the children of a disease characterized by a high-grade fever starts suddenly and rapidly falls. The children develop a short-lived maculopapular rash that begins on the trunk spreads to the extremities. The most likely causative agent is?

Select one:

- A. Herpes simplex virus 1.
- B. Rubella virus.
- C. Human herpes virus 6 ✓✓✓
- D. Parvovirus B19.
- E. Varicella-zoster virus.

17) Aspirin as antipyretic drug, all are true except?

Select one:

- A. Increase set point level.
- B. Decreases PGE2 synthesis.
- C. Lowers the body temperature of both normal person and feverish.

✓✓✓

- D. Decreases set point level.
- E. Stimulates the heat-losing center.

18) Which of the following ligaments prevents over abduction of the hip joint?

Select one:

- A. Pubofemoral ligament ✓✓✓
- B. Transverse acetabular ligament
- C. Iliofemoral ligament
- D. Ligamentum teres
- E. Ischiotemoral ligament

19) Select the correct statement of the following?

Select one:

- A. Protrusion of omentum or an organ through a surgical incision is called Spigelian hernias
- B. An epigastric hernia occurring along the semilunar lines of anterior abdominal wall
- C. Pfannenstiel's incision commonly used for approach to the pelvic Organs ✓✓✓
- D. Upper paramedian incision is the most suitable for explorative laparotomy
- E. Para rectus incisions is considered one of low-risk incisions

20) All the following about skeletal muscle relaxants are true except?

Select one:

- A. Baclofen is a skeletal muscle relaxant by acting as GABA -B receptor agonist
- B. Succinylcholine is useful for short endotracheal intubation before general anesthesia.

- C. Tizanidine has central alpha2 agonist activity and can Lower blood pressure.
- D. Botulinium toxin A (Botox) is useful in blepharospasm.
- E. Pancuronium is short acting but can slow heart due to central vagal stimulation ✓✓✓

21) The following events in procollagen biosynthesis occur Within cells EXCEPT?

Select one:

- A. Oxidation of lysyl residues ✓✓✓
- B. Formation of disulfide bonds.
- C. Chain alignment,
- D. O-linked glycosylation.
- E. Hydroxylation of lysyl residues.

22) For collagen synthesis, choose the incorrect statement?

Select one:

- A. a. Lysyl oxidase and extracellular enzyme produces the final step in the collagen synthesis pathway.
- B. b. The beginning of collagen synthesis begins with turning on genes
- C. c. There are approximately 34 genes associated with collagen formation
- D. d. In the Golgi apparatus, the procollagen goes through one last post-translational modification before being secreted
- E. e. Collagen carboxylase, removes the "loose ends" of the procollagen molecule ✓✓✓

23) Which of the following enzymes is ultimately responsible for the production of prostaglandins associated with inflammatory reactions?

Select one:

- A. Lipoxygenase
- B. Cyclooxygenase II ✓✓✓
- C. Phospholipase
- D. Cyclooxygenase-I
- E. Xanthine oxidase

24) Rigor mortis is caused by?

Select one:

- A. Increase Ca^{++} in ECE
- B. Decrease in ICE.
- C. increase lactic acid,
- D. Depletion of ATP ✓✓✓
- E. Decrease ADP

25) For elastin, choose the incorrect statement?

Select one:

- A. The ELN gene provides instructions for making a protein called tropoelastin
- B. Elastin is made by linking many soluble tropoelastin protein molecules
- C. Elastin production continues throughout the life. ✓✓✓
- D. The expression of ELN gene mainly occurs before birth.
- E. It is mainly made up of amino acids- valine. glycine alanine and proline

26) Which of the following is FALSE regarding cellulites and erysipelas?

Select one:

- A. Erysipelas has more dermal involvement.
- B. Cellulitis is caused by *S. pyogenes* and uncommonly by *S. aureus*.
- C. Complications without treatment.

- D. Doctors can't always distinguish between them.
- E. Cellulitis has well demarcated edge. ✓✓✓

27) Regarding osteoclast, one of the following is TRUE?

Select one:

- A. Break down the inorganic part of bone
- B. Has a smooth surface
- C. Originated from osteoblast
- D. Multinucleated cell that contains lysosomes ✓✓✓
- E. Sharpey's lacunae are areas of bone resorption by osteoclast.

28) Which of the following is false regarding the inguinal canal?

Select one:

- A. The superficial inguinal ring lies immediately above and medial to the pubic tubercle
- B. The direct inguinal hernia it IS the remains of the processus vaginalis ✓✓✓
- C. In the posterior wall is the conjoint tendon medially & fascia transversalis laterally
- D. The lacunar ligament form part of floor
- E. The margins of the deep ring give attachment to the internal spermatic fascia

29) Regarding extra-capsular ligaments of the knee joint, which is false?

Select one:

- A. Lateral collateral ligament is separated from the capsule and lateral meniscus by popliteus.
- B. Medial collateral ligament is firmly adherent to the capsule and medial meniscus.

C. Ligamentum patellae is the termination of quadriceps tendon

✓✓✓

D. Arcuate popliteal ligament over the popliteus tendon

E. Posterior oblique ligament, is a reflected extension from the semitendinosus extends upwards and laterally to the lateral condyle of the femur.

30) For melanin, all of the following are correct except?

Select one:

A. Eumelanin is the most abundant type of melanin in humans

B. Pheomelanin is a red-yellow pigment

C. Eumelanin can be found only as a black eumelanin ✓✓✓

D. Melanin possesses photochemical qualities that make it a photoprotectant

E. Neuromelanin can be found in the medulla, and in the adrenal gland

31) Which one of the following measures considered as a primary prevention for Musculo-skeletal injury?

Select one:

A. Bullet proof vests

B. Life vests

C. Seat belts

D. Motorcycle helmets

E. Safety caps on poisonous substances ✓✓✓

32) The following statements concerning the spermatic cord are correct except which?

Select one:

A. It contains the vas deferens.

- B. It is covered with three layers of fascia derived from the anterior abdominal wall.
- C. It contains the genital branch of the genitofemoral nerve
- D. The inferior epigastric artery passes through ✓✓✓
- E. The testicular artery and vein lie within it.

33) To decrease heat loss in cold exposure?

Select one:

- A. V.C of skin blood vessels, counter current exchanger occurs in femoral artery and deep veins of lower Limbs and Curling the body occurs.
- B. V.C of skin blood vessels occurs.
- C. V.D of skin blood vessels occurs.
- D. Counter current exchanger occurs in femoral artery and deep veins of lower limbs.
- E. Curling the body.

34) Movements of pronation and supination occur in?

Select one:

- A. Elbow and superior radioulnar joints
- B. Middle and inferior radioulnar joints
- C. Superior and middle radioulnar joints
- D. Superior and inferior radioulnar joints ✓✓✓
- E. Wrist and inferior radioulnar joints

35) For collagen, choose the incorrect statement?

Select one:

- A. Type IV forms the bases of cell basement membrane
- B. Type II collagen is the main component of cartilage
- C. Type III collagen is found in the walls of arteries
- D. Type V forms cell surfaces, hair and placenta

E. Type V collagen and type XI collagen are major components of tissue ✓✓✓

36) Which of the following ligaments of the hip joint attached to Iliopectineal eminence?

Select one:

- A. Ischiofemoral ligament
- B. Transverse acetabular ligament
- C. Iliofemoral ligament
- D. Pubofemoral ligament ✓✓✓
- E. Ligamentum teres

37) Meromelia is?

Select one:

- A. Abnormal fusion of the fingers
- B. Extra number of the fingers
- C. Central cleft in the hand
- D. Short hand
- E. The limbs represented only by hand ✓✓✓

38) All the following are characteristics of chondromas, except?

Select one:

- A. They usually are diagnosed in persons the ages of 20 and 50 years.
- B. They typically are solitary.
- C. The most common location is the pelvis. ✓✓✓
- D. Ollier disease and Maffucci syndrome are characterized by multiple chondromas
- E. Solitary chondromas rarely undergo malignant transformation.

39) Which muscles of mastication arises from inner aspect of zygomatic arch?

Select one:

- A. Superficial head of medial pterygoid
- B. Deep head of medial pterygoid
- C. Superficial head of masseter
- D. Deep head of masseter
- E. Temporalis

40) Select the wrong statement regarding the openings in the base of the skull and the structures that pass through it?

Select one:

- A. Optic canal nerve & the ophthalmic artery
- B. Foramen magnum Medulla oblongata
- C. Jugular foramen Hypoglossal nerve
- D. Foramen spinosum — Middle meningeal artery
- E. Foramen ovaleMandibular division of the trigeminal N.

41) Scalded skin syndrome is?

Select one:

- A. Most common in neonates and children less than 10 years of age.
- B. A direct effect of bacterial infection.
- C. Associated with all *S. aureus* strains.
- D. Loss of intercellular junction between cells in stratum granulosum layer. ✓✓✓
- E. Sequelae in all cases.

42) Which of the following sentences describes a Blister best?

Select one:

- A. Fluid-filled raised skin lesion. ✓✓✓

- B. Fluid-filled raised skin lesion of less than 5 millimeters in diameter
- C. Elevated dome-shaped skin lesion
- D. Fluid-filled raised skin lesion of more than 5 millimeters in diameter
- E. Dry flaky skin peels

43) All following matches about biological agents and side effects are true EXCEPT?

Select one:

- A. Infliximab-Pancytopenia
- B. Infliximab- Increase risk of infections
- C. Etanercept- Local site reactions
- D. Rituximab- Liver toxicity ✓✓✓
- E. Anakinra- Neutropenia

44) Anencephaly?

Select one:

- A. No mandible bone
- B. No Zygomatic bone
- C. No mastoid bone
- D. No parietal bone ✓✓✓
- E. No Vomer bone

45) Regarding Musculo-skeletal injury; which one of the following statements is WRONG?

Select one:

- A. Death rates due to injury tend to be higher in those in the higher income groups ✓✓✓
- B. Injuries, unintentional or intentional, constitute a major public health problem

- C. Injuries killing many people worldwide and causing many more cases of disability
- D. People from all economic groups suffer fatal injuries
- E. The poor are also less likely to make a full recovery following an injury

46) For hypocalcaemia, all of the following are correct except?

Select one:

- A. It manifests as a symptom of unusually low magnesium levels
- B. Hypocalcaemia may be associated with high levels of inactive PTH
- C. It is the presence of low serum calcium levels in the blood
- D. It manifests as a symptom Of a (PTH) deficiency/malfunction
- E. It manifests as a symptom of a high Vitamin D levels ✓✓✓

47) All following about methotrexate MTX are true EXCEPT?

Select one:

- A. Can be given to pregnant women ✓✓✓
- B. used alone or in combination therapy
- C. Inhibits purine synthesis
- D. Response to MTX occurs sooner than with other agents
- E. Doses in rheumatoid arthritis is low

48) Regarding cruciate ligaments, which is false?

Select one:

- A. Anterior cruciate ligament attaches to the posterior part of the medial surface of the lateral condyle of the femur
- B. Anterior cruciate ligament prevents hyperextension Of the knee
- C. Posterior cruciate ligament prevents anterior displacement of femur on tibia
- D. Anterior cruciate ligament prevents posterior displacement of the tibia ✓✓✓

E. Posterior cruciate ligament attaches to the anterior part of the lateral surface of the medial condyle of the femur

49) All the following are arteries of the anterolateral abdominal wall EXCEPT?

Select one:

- A. Subcostal artery
- B. Superficial circumflex iliac artery
- C. Obturator artery ✓✓✓
- D. Superior epigastric artery
- E. Deep circumflex iliac

50) The severity of receptor defect rickets is due to?

Select one:

- A. Recognition of several mutant forms of receptor defect rickets
- B. Very severe hypocalcaemia
- C. Totally resistant to therapy ✓✓✓
- D. Secondary risks of calcium therapy
- E. Elevation of serum calcitriol level

51) All the followings are Ergonomic problems indicators EXCEPT?

Select one:

- A. Increased incidence of cumulative trauma disorders
- B. Employer complaint ✓✓✓
- C. Employee generated changes
- D. Absenteeism and high turn over
- E. poor quality

52) For osteoblasts, choose the incorrect statement?

Select one:

- A. Osteoblasts are multinucleated cells. ✓✓✓
- B. Osteoblasts synthesize most of proteins found in bone
- C. Osteoblasts are responsible for the deposition of new bone matrix
- D. Osteoblasts are responsible for bone formation
- E. Osteoblasts control mineralization process

53) A 3-year-old child presents at the physician's office with symptoms of coryza, conjunctivitis, low grade fever, and Koplik's spots. The causative agent of this disease is?

Select one:

- A. Human papilloma virus.
- B. Herpesvirus
- C. poxvirus.
- D. parvovirus B19.
- E. Measles virus. ✓✓✓

54) Concerning treatment of severe and widespread ECZEMA, all the following are true EXCEPT?

Select one:

- A. Referral to dermatologist.
- B. Histamine ✓✓✓
- C. Oral or intramuscular steroids.
- D. Phototherapy
- E. Oral methotrexate.

55) Which of the following is CORRECTLY paired regarding skin glands?

Select one:

- A. Eccrine sweat glands ----- merocrine secretion. ✓✓✓
- B. Sebaceous glands ----- apocrine secretion.

- C. Eccrine sweat glands----- adrenergic innervation.
- D. Apocrine sweat glands----- cholinergic innervation.
- E. Apocrine sweat glands----- holocrine secretion.

56) Topical steroids in skin disease: Which one of the following is false?

Select one:

- A. Potent steroids must not be used on face or skin.
- B. Their therapeutic potency is increased by halogenation with fluoride or chloride.
- C. Their long term use causes skin atrophy and pink striae
- D. They decrease sebaceous gland activity.
- E. Mild potency topical steroids are ineffective in PLAQUE psoriasis ✓✓✓

57) Concerning the wrist joint?

Select one:

- A. It usually communicates with the midcarpal joint
- B. The distal radius is not part of the joint
- C. The joint capsule is thicker posteriorly
- D. It usually communicates with the distal radioulnar joint
- E. The triquetral bone forms part of the wrist joint ✓✓✓

58) All of the following facts are true about non-steroidal anti-inflammatory drugs (NSAIDs) except?

Select one:

- A. They are anti-inflammatory
- B. They do not cause dependence ✓✓✓
- C. They are antipyretic
- D. There is ceiling effect to their analgesia
- E. They can Cause tolerance

59) What are responsible for increase the depth of the shoulder cavity?

Select one:

- A. Articular cartilage
- B. Glenoid cavity
- C. Glenoid labrum ✓✓✓
- D. Synovial membrane
- E. Capsule

60) Which of the following medications would represent arthritis therapy that is least likely to cause gastric ulceration?

Select one:

- A. Aspirin
- B. Acetaminophen
- C. Meclofenamate ✓✓✓
- D. Rofecoxib
- E. Piroxicam

61) Which one of the following injuries resulted from an insufficiency of a vital element?

Select one:

- A. Chemical
- B. Electrical
- C. Thermal
- D. Strangulation ✓✓✓
- E. Mechanical

62) Which of the following soft tissue Sarcoma shows a characteristic t(X;18) translocation?

Select one:

- A. Dermatofibroma.

- B. Synovial sarcoma. ✓✓✓
- C. Pleomorphic fibroblastic sarcoma.
- D. Liposarcoma.
- E. Rhabdomyosarcoma.

63) Smooth muscle contractility is characterized by ?

Select one:

- A. Rapid cycling of cross bridges
- B. Low O₂ consumption
- C. Slow cycling of cross bridges, low both energy & O₂ consumption ✓✓✓
- D. Low energy consumption
- E. Slow cycling of cross bridges

64) Regarding treatment of ACNE VULGARIS ,the following are adverse effects of ISOTRETINOIN EXCEPT?

Select one:

- A. Teratogenicity
- B. Increase of liver function tests.
- C. Extreme Xerosis.
- D. Increase of triglycerides.
- E. Heart failure of the pregnant woman. ✓✓✓

65) All of the following muscles share in adduction of the shoulder joint except?

Select one:

- A. Subscapularis
- B. Teres major
- C. Supraspinatus ✓✓✓
- D. Infraspinatus

E. Teres minor

66) Where is the fovea?

Select one:

- A. Just below and behind the center of the head of femur
- B. Just below the center of the head of femur ✓✓✓**
- C. In the center of the head of femur
- D. Just behind the center of the head of femur
- E. Just above and behind the center of the head of femur

67) The intervertebral discs are composed of?

Select one:

- A. A matrix dominated by collagen type II
- B. Elastic cartilage
- C. Elastic connective tissue
- D. Fibrocartilage ✓✓✓**
- E. Hyaline cartilage

68) Stair-case phenomenon?

Select one:

- A. May caused by cooling of the muscle.
- B. May occur in skeletal and cardiac muscle. ✓✓✓**
- C. May be caused by increase K^+ and increase Na^+ intracellularly.
- D. May be caused by increase K^+ and decrease Na^+ intracellularly.
- E. May be caused by increase K^+ and increase Ca^{++} intracellularly.

69) Which of the following is INCORRECTLY paired?

Select one:

- A. Ruffini's corpuscles reticular layer and respond to continuous stress
- B. Pacinian corpuscle large receptive field
- C. Merkel's corpuscle most sensitive non-capsulated modality
- D. Meissner's corpuscle low frequency stimuli
- E. Free nerve ending epidermis complex modality ✓✓✓

70) Which of the following statements is TRUE regarding necrotizing fasciitis?

Select one:

- A. Slow spreading of redness area.
- B. Low grade pain and tenderness over the involved skin.
- C. Caused only by anaerobic bacteria.
- D. Anesthesia is the hallmark symptom.
- E. High mortality rates. ✓✓✓

71) Smooth muscle are characterized by all the following EXCEPT?

Select one:

- A. Contains Calmodulin instead of troponin
- B. Its membrane potential is unstable
- C. Have a resting membrane potential is about -50mV
- D. They are relaxed by acids and excess calcium
- E. Its contraction increased with warming ✓✓✓

72) One of the following neoplasm can be detected by myogenin and MYOD-I immunohistochemical stains?

Select one:

- A. Pleomorphic fibroblastic sarcoma.
- B. Dermatofibroma.
- C. Liposarcoma.

- D. Synovial sarcoma.
- E. Rhabdomyosarcoma ✓✓✓

73) The H zone?

Select one:

- A. Is constant in width during contraction
- B. Contains both actin and myosin.
- C. Contains only actin.
- D. Is divided by the M line. ✓✓✓
- E. Increases in width during contraction.

74) The following are adverse effects of methoxsalen in PUVA therapy except?

Select one:

- A. Increase in ANF titer in blood. ✓✓✓
- B. Actinic keratosis.
- C. Hyperlipidemia.
- D. Skin cancer.
- E. Photoaging.

75) What are the types of the shoulder joint?

Select one:

- A. Ellipsoid
- B. Hinge
- C. Condylloid
- D. Ball and socket ✓✓✓
- E. Saddle

76) A 26-year-old man has complained of a left arm. On physical examination, a 4-cm area of the lateral upper left arm exhibits swelling and redness with pain on palpation. A radiograph of the left arm shows no fracture. Three months later, there now is a 2-cm, painful, well-circumscribed, subcutaneous mass at the site of the original injury. A radiograph shows a solid soft-tissue mass. Which of the following lesions is most likely to be present?

Select one:

- A. Superficial fibromatosis
- B. Lipoma
- C. Malignant fibrous histiocytoma
- D. Nodular fasciitis ✓✓✓
- E. Organizing abscess

77) One of the following antigens usually induces urticaria by Mast cell-dependent, IgE-independent pathogenesis?

Select one:

- A. Drugs
- B. Pollen
- C. Food
- D. Insect venom
- E. Opiates ✓✓✓

78) All the muscles attached to the bicipital (intertubercular) groove?

Select one:

- A. Adduct the arm.
- B. Abduct the arm (shoulder joint).
- C. Abduction and medial rotation
- D. Medial rotation of the arm.
- E. Adduction and medial rotation ✓✓✓

79) Structures may found in the submandibular triangle include followings except?

Select one:

- A. Parts of the facial artery and vein
- B. The submental artery
- C. The hypoglossal nerve
- D. The mylohyoid muscle Nerve
- E. The anterior jugular vein ✓✓✓

80) Regarding treatment of Acute Gout, all the following are true EXCEPT?

Select one:

- A. Colchicine should be used during first 24 hours of the attack.
- B. life style changes are important.
- C. Corticosteroids are also included in treatment.
- D. Probenecid is the first line of treatment. ✓✓✓
- E. NSAIDS are important for treatment.

THE END