

1. Apoptosis has the following features except:
- A There may be single cell loss or affect clusters of cells
 - B Apoptosis is seen in pathologic processes only
 - C There are no acute inflammatory cells surrounding apoptosis
 - D There is cell shrinkage in apoptosis
2. Who is recognized as the father of psychoanalysis?
- A William James
 - B Alfred Adler
 - C Tolman
 - D Sigmund Freud
3.of individuals is an important feature of social group.
- A Contact
 - B Interaction
 - C Communication
 - D Relation
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4. IgM antibody against PG L- 1 antigen is used for the diagnosis of:
- A Syphilis
 - B Leprosy
 - C Tuberculosis
 - D Brucellosis
5. A 3-year-old male patient presents with a clinically significant atrial septal defect (ASD). The ASD usually results from incomplete closure of which of the following structures?
- A Foramen ovale
 - B Ligamentum arteriosum
 - C Ductus arteriosus
 - D Sinus venarum

6. Which of the following is the major source of heat loss in normal adults?
- | | |
|-----------------|----------------------------------|
| A Kidney/urine | B Skin |
| C Stomach/bowel | D Upper/lower respiratory system |

7. After a "tummy-tuck" (abdominoplasty) procedure is performed on a 45-year-old man, which of the following layers of the abdominal wall will hold the sutures?
- | | |
|--------------------------|--------------------------|
| A Scarpa's fascia | B Camper's fascia |
| C Extraperitoneal fascia | D Extraperitoneal tissue |

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8. When repeated intense stimuli are applied to damaged or inflamed tissue, which of the following responses occurs?
- A The threshold for activating primary afferent nociceptors is raised and the frequency of firing is higher for all stimulus intensities
- B The threshold for activating primary afferent nociceptors is lowered, and the frequency of firing is lowered for all stimulus intensities.
- C The threshold for activating primary afferent nociceptors is lowered, and the frequency of firing is higher for all stimulus intensities.
- D The threshold for activating primary afferent nociceptors is raised and the frequency of firing is lower for all stimulus intensities

9. All of the following are reversible causes of SA node dysfunction EXCEPT:

- A Radiation therapy
- B Lithium toxicity
- C Increased intracranial pressure
- D Hypothyroidism

10. Who reported the clinical use of TENS for relief of chronic pain for the first time?

- A Melzack and Wall
- B Meyer and Fields
- C Cummings
- D Erwin Neher and Bert Sakmann

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11. A 69-year-old female visits her physician due to severe neck pain. Radiographic studies reveal bony growths (osteophytes) in the intervertebral foramen between vertebrae C2 and C3. Which of the following muscles would be most likely affected by this condition?

- | | |
|-----------------|---------------------|
| A Rhomboids | B Serratus anterior |
| C Supraspinatus | D Diaphragm |

17. A 30-year-old male suffered a superior gluteal nerve injury in a motorcycle crash in which his right lower limb was caught beneath the bike. He is stabilized in the emergency department. Later he is examined and he exhibits a waddling gait and a positive Trendelenburg sign. Which of the following would be the most likely physical finding in this patient?
- A Difficulty in standing from a sitting position
 - B The left side of the pelvis droops or sags when he attempts to stand with his weight supported just by the right lower limb.
 - C Difficulty in sitting from a standing position
 - D The right side of the pelvis droops or sags when he attempts to stand with his weight supported just by the left lower limb.
18. The polysaccharide used in assessing the glomerular filtration rate (GFR) is...
- A Glycogen
 - B Agar
 - C Inulin
 - D Hyaluronic acid
19. The most important factor which governs diffusion of drugs across capillaries other than those in the brain is
- A Blood flow through the capillary
 - B Lipid solubility of the drug
 - C pKa value of the drug
 - D pH of the medium

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20. The most likely mechanism involved in the antiseizure activity of carbamazepine is....

- A Block of sodium ion channels
- B Inhibition of GABA transaminase
- C Block of calcium ion channels
- D Glutamate receptor antagonism

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21. Which of the following are not features of 'rigor mortis'?

- A All the muscles go into a state of contracture
- B There is a presence of some ATP which leads to activity
- C The muscles remain in rigor until the muscle proteins deteriorate about 15 to 25 hours later.
- D All these events occur more rapidly at higher temperatures.

22. Which of the following is also known as the pacemaker of the heart?

- | | |
|--------------|---------------------|
| A Sinus Node | B Purkinie fibers |
| C A-V node | D None of the above |

23. Synthesis of hemoglobin takes place in....

- | | |
|--------------------|----------------------------|
| A Proerythroblasts | B Hematopoietic stem cells |
| C WBC | D Platelets |

24. Which of the following is NOT controlled by the Brainstem?

A Respiration

B Equilibrium

C Eye movements

D Hearing

25. Which of the following are NOT caused by damage to the basal ganglia?

A Athetosis

B Hemiballismus

C Parkinson's disease

D None of the above

26. A 65-year-old woman with severe coughing is admitted to the hospital. Radiographic examination reveals tuberculosis of the left lung, with extension to the thoracic vertebral bodies of T6 and T7, producing a "gibbus deformity." Which of the following conditions is most likely also to be confirmed by an X-ray?

A Lordosis

B Kyphosis

C Scoliosis

D Spina bifida

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27. A 20-year-old female football player injured her right foot during training. An MRI examination revealed a hematoma in the medial malleolus. Upon physical examination she showed over eversion of her right foot. Which of the following ligaments most likely has a tear?

A Spring ligament

B Calcaneofibular

C Deltoid

D Long plantar

28. A 20-year-old student was bitten at the base of base thumb by his dog. The wound became infected and the infection spread into the radial bursa. The tendon(s) of which muscle will most likely be affected?

A Flexor digitorum profundus

B Flexor pollicis longus

C Flexor pollicis brevis

D Flexor carpi radialis

29. The arterial circle (of Willis) contributes greatly to cerebral arterial circulation when one primary artery becomes occluded by atherosclerotic disease. Which of the following vessels does not contribute to the circle?

A Anterior communicating artery

B Posterior communicating artery

C Middle cerebral artery

D Internal carotid artery

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30. Which of the following structure is not a part of the anterior triangle of the neck?

A Border of the mandible

B Anterior border of the sternocleidomastoid

C Anterior border of the sternohyoid

D Sagittal line down the middle of the neck

31. Cubitus valgus of elbow commonly follows fracture of:

- | | | | |
|---|------------------------|---|-----------------|
| A | Lower third of humerus | B | Capitulum. |
| C | Medial condyle | D | Lateral condyle |

32. During a neurologic examination, you ask a patient to stand with both arms fully extended and parallel to the ground with his eyes closed for 10 seconds. What is the name of this test?

- | | | | |
|---|--------------------|---|-------------------|
| A | Pronator drift | B | Romberg sign |
| C | Dysdiadochokinesis | D | Lhermitte symptom |

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33. When people arethey have lost touch with reality

- | | | | |
|---|-----------|---|--------------|
| A | Manic | B | Neurotic |
| C | Psychotic | D | Psychopathic |

34. Which among the following is an informal method of social control?

- | | | | |
|---|---------|---|-----------|
| A | Customs | B | Coercion |
| C | Law | D | Education |

35. You are evaluating a 42-year-old woman for complaints of muscle weakness and tingling in her lower extremities. You suspect a peripheral neuropathy. All the following questions are important for the history and physical examination EXCEPT:

- A Are there any important comorbid conditions?
- B Is there evidence of upper motor neuron involvement?
- C What does the electromyogram and nerve conduction study demonstrate?
- D What is the distribution of the weakness?

36. Intelligence can be defined as...

- A Knowledge of great many facts
- B The ability to get good grades in school
- C All the factors that make one person different from another
- D The ability to think abstractly and learn from experience

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37. Which of the following is 'intrasubject variability' of passive ROM measurements with universal goniometer?

- A Variations in participant positioning
- B Mood changes of the participant
- C Reading errors
- D Inconsistent stabilization

38. Which of the following is the nearest to the position for postural drainage of lateral basal segments of the lower lobe of the right side?

- A The subject lies on the left side, head down, and leans 1/4 turn forward toward the table. The child can flex his or her upper leg over a pillow for support. Percuss and vibrate over the uppermost portion of the lower ribs to drain the right side.
- B The subject lies on the left side, head down, and leans 1/4 turn forward toward the table. Percuss and vibrate over the uppermost portion of the lower ribs to drain the right side.
- C The subject lies on the right side, head down, and leans 1/4 turn forward toward the table. Percuss and vibrate over the uppermost portion of the lower left ribs.
- D The subject lies on abdomen on a flat drainage table with two pillows under the hips. Percuss and vibrate over the middle part of the back at the bottom of the shoulder blade on the right side of the spine

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39. Which of the following is the most common extra-articular manifestation of ankylosing spondylitis?

- | | |
|----------------------|------------------------------|
| A Anterior uveitis | B Aortic insufficiency |
| C Pulmonary fibrosis | D Inflammatory bowel disease |

40. Which of the following statements is FALSE?

- A Distinguishing between aortic stenosis and chronic aortic regurgitation is usually difficult on clinical grounds alone.
- B Rheumatic heart disease can cause both aortic stenosis and aortic regurgitation.
- C Aortic valve repair is not a common practice like mitral valve repair
- D None of the above.

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41. is defined as a systematic procedure of a muscle or muscle group lifting, lowering, or controlling heavy loads (resistance) for a relatively low number of repetitions or over a short period of time

- | | |
|----------------------|------------------|
| A Strength training | B Power training |
| C Endurance training | D Resistance |

42. Which of the following is NOT an adaptation associated with resistance training?

- A Hypertrophy of muscle fibers; greater in type II fibers
- B Muscle fiber size (cross-sectional area), type I and type II fiber numbers and the number of alpha motoneurons all decrease. Preferential atrophy of type II muscle fibers occurs.
- C Motor unit recruitment as well as motor units firing rate increases
- D Capillary bed density increases

43. Which of the following is NOT a sign of excessive stress with exercise or activity?
- A Swelling, redness or warmth in the healing tissue
 - B Decreased functional usage of the involved part.
 - C A Feeling of stiffness associated with an increase in ROM. It decreases after 3-4 hrs.
 - D Exercise or activity pain that comes on earlier or is increased over the previous session.

44. Which of the following gaits are seen in stroke?

- A Circumduction
- B Hip hiking
- C Vaulting
- D All the above

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45. Using the involuntary responses to movement of the head and body for purpose of modifying muscle tone or eliciting movements is seen in...

- A Bobath method
- B Brunnstrom method
- C PNF technique
- D Rood approach

46. Which of the following is NOT an advantage of open chain exercises?

- A Can exercise in non-weight bearing positions
- B Able to isolate individual muscles
- C Able to exercise through increased ROM
- D Increased joint compression

47 Which of the following is NOT a key element of the CBR matrix?

A Health

B Livelihood

C Empowerment

D Access to justice

48 Components of "Female Athlete Triad" includes all, except

A Osteoporosis

B Amenorrhoea

C Disordered eating

D Obesity

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49. Which of the following is NOT a method of exercise progression?

A Slow to fast

B Stable to unstable

C Specific to general

D Correct execution to increased intensity

50. Scott - Craig orthosis is used in patients with paraplegia of...

A L5 or higher

B L4 or higher

C L3 or higher

D L1 or higher

51. Choose the TRUE statement regarding load deformation curve

- A Beyond the linear region is the plastic region, where decreases in deformation occur with minimal and nonlinear changes in load
- B The elastic region is the initial linear region of the graph where the slope corresponds to the stiffness or Young's modulus of elasticity of the material.
- C The yield point or elastic limit is the point on the graph separating the elastic and linear regions
- D In biological materials, normal physiological loading occurs within the nonlinear region, and deformations near and beyond the elastic limit are associated with microstructural damage to the tissue

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52. 'Behaviour can be influenced by social and cultural factor', the__ perspective of psychology emphasizes it.

- A Socio-cultural Perspective
- B Developmental Perspective
- C Biological Perspective

Psychological Perspective

53 Identify the FALSE statement regarding the properties of recruitment of motor units.

- A Motor units tend to be organized in pools or task groups
- B Different motor units are stimulated at slightly different times, staggering the twitches to help smooth out the rise in tension.
- C Some motor unit synchronization develops to increase rate of force development
- D None of the above

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54 Identify the FALSE statement

- A The swimmer will only float if his/her average body density is less than or equal to the density of water
- B It is easier to float in sea water, which has a density of around 1020 kg/m^3 , than in fresh water
- C Most people can float with full exhalation
- D Women float better than men.

55 The presence of gross joint laxity would suggest. ...

- A Grade 1 sprain
- B Grade 2 sprain
- C Grade 3 sprain
- D None of the above

56. Identify the yellow flags of patient examination

- A Dysphagia of unexplained origin
- B Night sweats
- C Asymmetrical joint laxity
- D All the above

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57. 'Pseudohemia' is.....

- A Lateral abdominal wall slightly protrudes above the waist, indicating a possibly inhibited transverse abdominus muscle.
- B Medial abdominal wall slightly protrudes above the waist, indicating a possibly inhibited transverse abdominus muscle.
- C Lateral abdominal wall slightly protrudes near the groin, indicating a possibly inhibited transverse abdominus muscle.
- D Lateral abdominal wall on the right side slightly protrudes around the groin, indicating a possibly inhibited transverse abdominus muscle.

58. Identify the incorrect PNF pattern for the upper limb

- A Shoulder: extension, adduction, internal rotation; forearm: pronation; wrist: ulnar deviation; finger: flexion
- B Shoulder: extension, abduction, internal rotation; forearm: pronation; wrist: ulnar deviation; finger: flexion
- C Shoulder: flexion, adduction, external rotation; forearm: supination; wrist: radial deviation; finger: flexion
- D Shoulder: flexion, adduction, internal rotation; forearm: supination; wrist: radial deviation; finger: flexion

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59. Most common etiologic agent implicated in chronic osteomyelitis is:

- | | |
|--------------------|-------------------------|
| A Escherichia coli | B Staphylococcus aureus |
| C Pseudomonas | D Klebsiella |

60. A 24-year-old woman is newly diagnosed with systemic lupus erythematosus. Which of the following organ system complications is she most likely to have over the course of her lifetime?

- | | |
|-------------------|-------------------|
| A Renal | B Cutaneous |
| C Musculoskeletal | D Cardiopulmonary |

61. If an orthopaedic surgeon had to explain to a patient the complications of total hip replacement, which of the following would he/she mention?
- A Leg length inequality more than 10cm
 - B Compartment syndrome.
 - C Synergistic gangrene
 - D Severe bleeding requiring transfusion
62. What is the best way to describe someone who uses a wheelchair?
- A Confined to a wheelchair
 - B Handicapped
 - C Person who uses a wheelchair or wheelchair user
 - D Wheelchair bound
63. Polyphasic potentials have more than ____ phases
- | | |
|---------|---------|
| A Three | B Four |
| C Six | D Seven |
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64. Functional level three (K3) for Trans-femoral amputees means patient is
- A Limited household walking on level surface
 - B Enhanced levels of stance phase stability while allowing great swing phase motion
 - C Full community ambulation and can ambulate with variable cadences
 - D Have ability to use prosthesis for activities outside of normal activities

65. In a normal chest PA radiograph the carinal angle is in the range of

- | | | | |
|---|-----------|---|-----------|
| A | 900 – 950 | B | 450 - 500 |
| C | 600 – 750 | D | 100 - 150 |

66. Which of the following CANNOT be used to manage acute pulmonary edema associated with heart failure?

- A Applying tourniquet on both the arms and legs
- B Giving a rapidly acting diuretic
- C Giving the patient pure oxygen to breathe
- D Giving the patient an anticoagulant

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67. Which of the following traction grade reaches the anatomical limit as per Kaltenbom?

- | | | | |
|---|-----------|---|---------------|
| A | Grade I | B | Grade II |
| C | Grade III | D | All the above |

68. Which of the following statements are TRUE?

- A Intermittent claudication is most commonly felt in the calf.
- B Intermittent claudication distance is usually inconsistent on a day-to-day basis for a given patient.
- C Intermittent claudication is thought to be due to nerve compression in the leg muscle compartments.
- D Intermittent claudication is commonly relieved by getting out of bed.

69 Which of the following statements are TRUE?

- A Early excision and grafting are not indicated in burns of the axilla and hand
- B Physiotherapy and splintage are important in maintaining range of movement and reducing joint contracture
- C It is not necessary to splint the hand after skin grafting.
- D Supervised physiotherapy for any affected joints should occur on day 14 so that early recovery can be aided.

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70 A rugby player fell onto his shoulder some weeks ago. He now presents with a painful lump about 4 cm in diameter on the top of his shoulder. What has he injured?

- A The acromioclavicular joint
- B The head of the humerus
- C The sternoclavicular joint
- D The rotator cuff

71. scale has none of the properties of real number system.

- | | |
|------------------|-----------------|
| A Ordinal scale | B Nominal scale |
| C Interval scale | D Ratio scale |