**HS I-VoCat Review**

1. The innermost layer of the skin is the:

A. dermis.

B. epidermis.

C. stratum corneum.

D. subcutaneous.

2. Oxygen and carbon dioxide are exchanged at the cellular level in which type of blood vessel?

A. Arteries

B. Arterioles

C. Capillaries

D. Veins

3. Lisa went to the doctor after she noticed a rash every time she ate peanut butter. She was diagnosed with:

A. acquired immunity.

B. anaphylaxis.

C. autoimmune response.

D. hypersensitivity.

4. What are the upper chambers of the heart?

A. Bicuspid and tricuspid

B. Left atrium and right atrium

C. Left ventricle and right ventricle

D. Bicuspid and mitral

5. Terri has an excessive appetite but has trouble gaining weight. She also has exophthalmos. What disorder might she have?

A. Addison's disease

B. Cushing's syndrome

C. Hyperthyroidism

D. Steroid abuse

6. The lymphatic structures that closely parallel veins are called:

A. capillaries.

B. lymph.

C. lymph nodes.

D. lymph vessels.

7. The student presented at her doctor's office with complaints of dysuria, urinary frequency and lower abdominal discomfort. Upon examination, the doctor discovered that the student's hygiene was inadequate. Which organism MOST LIKELY caused the student's symptoms?

A. Clostridium difficile

B. E-coli

C. Staphylococcus

D. Streptococcus

8. A patient sustains a fall while getting out of the shower. Tests reveal damage to the inner most meningeal layer. What structure was damaged?

A. Arachnoid

B. Dura mater

C. Pia mater

D. Ventricles

9. The nerve cell is a(n):

A. axon.

B. dendrite.

C. myelin sheath.

D. neuron.

10. Breast cancer is one of the leading causes of death in woman between the ages of 32 and 52. Which procedure may provide early detection and increased life expectancy for women with breast cancer?

A. Hysterogram

B. Mammogram

C. Mastectomy

D. PAP test

11. Abby went to the emergency room with complaints of chest pain. The diagnostic tests revealed that she had no heart damage. Abby understands that she will be treated for:

A. angina pectoris.

B. arrhythmias.

C. coronary artery disease.

D. heart failure.

12. Jessica recently learned that she is pregnant. She knows that fertilization normally takes place in the oviduct. Which structure functions in this manner?

A. Cervix

B. Fallopian tubes

C. Ovary

D. Uterus

13. Which structure of the male reproductive system stores sperm and connects to the testes?

A. Epididymis

B. Penis

C. Scrotum

D. Testicle

14. The fatty substance that lines the inner surface of the alveoli is called:

A. Pleural fluid

B. Ciliated mucus

C. Surfactant

D. Mucus

15. The patient had two of his/her parathyroid glands surgically removed. This procedure can lead to a condition characterized by muscle twitching and lead to seizures. The condition that the patient must be aware of is:

A. Cushing's syndrome.

B. gigantism.

C. hypothyroidism.

D. tetany.

16. The lymphatic vessel that collects lymph from the left chest, abdomen and lower limbs is called the:

A. lymph nodes.

B. right lymphatic duct.

C. thoracic duct.

D. thymus gland.

17. The patient's chest x-ray revealed fluid in the lungs. The patient was diagnosed with:

A. influenza.

B. pneumonia.

C. pneumothorax.

D. tuberculosis.

18. Cindy has a dislocated shoulder. Her doctor has recommended six weeks of physical therapy. This will impact which function of the skeletal system?

A. Hemopoiesis

B. Mineral storage

C. Movement

D. Protection

19. Jacob is a 2 year old toddler with an upper respiratory infection. He is pulling at his ears. His symptoms include pain, fever, and fluid draining from his right ear. Which sensory disorder is Jacob experiencing?

A. Meniere's disease

B. Otitis media

C. Tinnitus

D. Vertigo

20. Liver damage, heart disease, testicular changes, and breast growth in males are symptoms of:

A. Addison's disease.

B. Cushing's syndrome.

C. hyperthyroidism.

D. steroid abuse.

21. Planning, recalling information, and decision making are all functions of the:

A. brain stem

B. cerebrum

C. cerebellum

D. hypothalamus

22. Mr. Gavin has had polyuria for several weeks. When he went to the doctor, his urinalysis was normal. Further studies revealed that Mr. Gavin had a disorder that affected the release of ADH. Which function of the urinary system was affected?

A. Elimination

B. Filtration

C. Reabsorption

D. Secretion

23. Jane noticed difficulty moving, difficulty breathing and stiffening of her skin. She was diagnosed with which lymphatic disorder?

A. Lupus erythematosus

B. Lymphadenitis

C. Scleroderma

D. Tonsillitis

24. Sam works out at the gym 3 or 4 times a week. He can lift more weight than any of his classmates. What term would describe Sam's muscles?

A. Muscular atrophy

B. Muscular hypertrophy

C. Myoneural

D. Synergist

25. Which structure of the female reproductive system serves as the narrow opening of the uterus that extends into the vagina?

A. Cervix

B. Fundus

C. Labia

D. Vulva

26. On the first sunny day, Jessica went to lake and forgot her sunscreen. She returned with redness but no blisters. She has:

A. decubitus ulcer.

B. first degree burn.

C. second degree burn.

D. third degree burn.

27. The tiny, oval-shaped lymph structures located throughout the body are known as:

A. lymph.

B. lymph fluid.

C. lymph nodes.

D. spleen.

28. A blood cell that is bi-concave in shape and contains hemoglobin is called a(n):

A. erythrocyte.

B. leukocyte.

C. plasma.

D. thrombocyte.

29. Long periods of standing, and pregnancy are factors that contribute to which vascular disorder that is often seen in the lower legs?

A. Aneurysm

B. Coronary artery disease

C. Peripheral vascular disease

D. Varicose veins

30. Which important function of long bone is related to the production of healthy blood cells?

A. Amphiarthroses

B. Epiphysis

C. Hemopoiesis

D. Phalanges

31. Jeremy is on the cross country team at school. He notices that after practice his urine is dark amber-colored and he is voiding very small amounts. Jeremy has:

A. cystitis.

B. dehydration.

C. enuresis.

D. polyuria.

32. The largest lymphatic structure is the:

A. lymph.

B. lymph vessels.

C. spleen.

D. tonsils.

33. The blood vessels that carry deoxygenated blood from the body to the heart are:

A. arteries.

B. arterioles.

C.capillaries.

D.veins.

34. During a vasectomy what structure is severed to produce sterility in the male?

A. Ejaculatory duct

B. Epididymis

C. Urethra

D. Vas deferens

35. Hormone release provides immediate body responses because the hormones are directed toward:

A. cardiac cells.

B. cyclic AMP cells.

C. synaptic junctions.

D. target organ cells.

36. Which vessel is strong and elastic to undergo increased pressure?

A. Capillary bed

B. Ductus arteriosus

C. Portal vein

D. Pulmonary artery

37. The function of the heart and blood vessels that supplies oxygen and nutrients to the entire body is known as:

A. Cardiopulmonary circulation

B. Pumping mechanism

C. Systemic circulation

D. Transportation

38. David is experiencing symptoms that include an inability to move and respiratory distress. His doctor is concerned which disorder?

A. Multiple sclerosis

B. Poliomyelitis

C. Spinal Cord injury

39. A blood cell that is characterized as being ameboid, granular, or agranular is called a(n):

A. erythrocyte.

B. leukocyte.

C. plasma.

D. thrombocyte.

40. Which gland produces fluid that aids in the expulsion of semen and enhances the motility of sperm?

A. Bulbourethral

B. Ejaculatory

C. Prostate

D. Seminal

41. Which circulatory disorder indicates an underlying coronary artery process?

A. Angina pectoris

B. CVA

C. Myocardial infarction

D. Pulmonary edema

42. When a laboratory technician looks at a slide under the microscope and sees numerous white blood cells, which condition is likely?

A. Agglutination

B. Erythropoiesis

C. Hemolysis

D. Inflammation

43. The 76 year old female was transported to the hospital following a fall. Upon examination, it was determined that she sustained a fracture of the head of her femur. This injury was likely related to:

A. acromegaly.

B. bone deformity.

C. myxedema.

D. osteoporosis.

44. The shaft of the long bone is the:

A. diaphysis.

B. endosteum.

C. epiphysis.

D. periosteum.

45. Regular exercise and training will:

A. cause lactic acid.

B. improve muscle tone.

C. antagonize circulation.

D. reduce muscle efficiency.

46. Michelle's grandmother became dizzy and fainted. Her doctor reports that she had a temporary loss of blood flow to her brain. Michelle expects her grandmother will be treated for:

A. hypertension.

B. myocardial infarction.

C. transient ischemic attack.

D. varicose veins.

47. Rachel has unequal leg lengths and one shoulder is higher than the other. This uneven posture is causing an abnormal side to side curvature of the spine. Rachel's diagnosis is:

A. kyphosis.

B. lordosis.

C. osteoporosis.

D. scoliosis.

48. The athlete sustained an open wound while on the practice field. A couple of days later the injury appeared red, swollen and was warm to the touch. The injury resulted in which development?

A. Agglutination

B. Hemolysis

C. Inflammation

D. Phagocytosis

49. Which structure is part of the middle ear?

A. Auditory canal

B. Incus

C. Semicircular canals

D. Tympanic membrane

50. A 47 year old man went to see his doctor. When reviewing family pictures, the patient's wife noted that her husband had developed enlarged hands, lips and nose, and that his chin protrudes more than it used to. Following some laboratory studies, the doctor diagnosed the patient with:

A. acromegaly.

B. Grave's disease.

C. hypothyroidism.

D. toxic goiter.

51. Which 45 centimeter structure of the male reproductive system connects the epididymis to the ejaculatory duct?

A. Bulbourethral gland

B. Prostate gland

C. Seminal vesicles

D. Vas deferens

52. The patient in chronic renal failure is treated with hemodialysis. What renal function does hemodialysis replace?

A. Filtration

B. Hormone control

C. Nervous control

D. Peristalsis

53. Dehydration has a direct effect on urine formation. The proximal convoluted tubules are responsible for correcting the water imbalance found with dehydration. What is this process called?

A. Diffusion

B. Filtration

C. Reabsorption

D. Secretion

54. Which connective tissue stores fat cells?

A. Adipose

B. Cartilage

C. Ligaments

D. Tendons

55. What is the colored portion of the eye?

A. Iris

B. Lens

C. Retina

D. Sclera

56. Which structure of the female reproductive system contains the ova?

A. Cervix

B. Fallopian tube

C. Ovary

D. Uterus

57. The endocrine disorder that could be prevented by using iodized salt is:

A. acromegaly.

B. gigantism.

C. hyperthyroidism.

D. hypothyroidism

58. Excessive substances in urinary filtrate, such as sodium and potassium, lead to their elimination. Which process of elimination is this urinary system function?

A. Diffusion

B. Filtration

C. Reabsorption

D. Secretion

59. The doctor diagnoses Leslie with a common cold and does not give her an antibiotic because:

A. Leslie is not contagious.

B. Leslie washes her hands frequently.

C. The common cold is viral and antibiotic do not treat viruses.

D. There is no antibiotic available for this strain of the common cold.

60. The liquid portion of blood that comprises 55% of the blood's volume is called:

A. erythrocyte.

B. leukocyte.

C. plasma.

D. thrombocyte.

61. The patient was admitted to the hospital with ineffective heart function. Which condition may result if the ventricles do not function properly, causing blood to collect in the heart?

A. Angina pectoris

B. Heart failure

C. Myocardial infarction

D. Pulmonary edema

62. Weston presented in the emergency department with abdominal pain and nausea after eating a meal that was high in fat. His symptoms indicate a diagnosis of:

A. cholelithiasis.

B. gastroenteritis.

C. gastroesophageal reflux.

D. hepatitis C.

63. Which fungal disorder can be prevented by practicing good personal hygiene?

A. Acne

B. Alopecia

C. Athlete's foot

D. Herpes simplex

64. Anna is recovering from a fight with Arianne. Anna's breathing is slowing down, her pulse is slowing, and she is fatigued. What part of the nervous system is responsible for these changes?

A. Cranial Nerves

B. Parasympathetic

C. Spinal Nerves

D. Sympathetic

65. Which structure(s) of the male reproductive system are pea-sized and inferior to the prostate?

A. Bulbourethral glands

B. Epididymis

C. Seminal vesicles

D. Urethra

66. The teeth and tongue contribute to this function of the digestive system:

A. absorption of nutrients.

B. chemical digestion of food.

C. elimination of waste products.

D. physical breakdown of food.

67. The digestive organ responsible for absorption of nutrients is the:

A. large intestine.

B. pancreas.

C. small intestine.

D. stomach.

68. Mr. Burns had a stroke and has been urinating involuntarily. What is this condition called?

A. Cystitis

B. Glomerulonephritis

C. Incontinence

D. Pyuria

69. Which structure extends from the larynx, in front of the esophagus, and forms the two bronchi?

A. Epiglottis

B. Larynx

C. Pharynx

D. Trachea

70. John, a one year old, fell on outstretched arms while running in the play area at the daycare center. He has pain and swelling in his lower right arm. X-rays reveal an incomplete separation of his bone. What type of fracture does John have?

A. Comminuted

B. Compound

C. Dislocation

D. Greenstick

71. The optic disc is located on the:

A. cornea.

B. lens.

C. retina.

D. sclera.

72. Lou's grandmother use to be taller than all of her sisters. Now she is shorter and recently fell and fractured her hip. What disorder would cause these symptoms?

A. Gout

B. Osteoarthritis

C. Osteoporosis

D. Rickets

73. The thin, moist slippery membrane that covers the lungs is called the:

A. alveoli.

B. pleura.

C. mediastinum.

D. sinus.

74. In which body cavity are the lungs located?

A. Abdominal

B. Dorsal

C. Pelvic

D. Thoracic

75. Jackie complained to his/her doctor about nervousness, and weight loss even though he/she has had increased food intake. Laboratory tests revealed that Jackie had an elevated level of which hormone?

A. Adrenaline

B. Glucagon

C. Parathormone

D. Thyroxin

76. The integumentary system is the body's first line of defense against harmful substances. This is an example of which function of the integumentary system?

A. Absorption

B. Excretion

C. Protection

D. Storage

77. Sarah has a fever and cough. How does her lymphatic system respond to these symptoms?

A. Filtration

B. Fluid balance

C. Immunity

D. Lymphocyte production

78. The structure that is an appendage of the skin is:

A. dermis.

B. epidermis.

C. hair.

D. subcutaneous.

79. Which family member is more likely to develop chronic obstructive pulmonary disease?

A. Aunt Jane who works at a day care

B. Cousin Jessica who is being treated for sinusitis

C. Grandma who had influenza last year

D. Uncle John who smokes a pack of cigarettes a day

80. The patient complained of a runny nose, pressure over the eyes, and a headache. Which respiratory disorder is the patient experiencing?

A. Asthma

B. Bronchitis

C. Pneumonia

D. Sinusitis

81. A diabetic patient who has a wound infection that is healing slowly may be started on a diet high in:

A. calcium.

B. folic acid.

C. iron.

D. protein.

82. Which structure of the female reproductive system stores the ova?

A. Cervix

B. Fallopian tube

C. Ovary

D. Uterus

83. What is the correct pathway for sperm from spermatogenesis to ejaculation?

A. Epididymis – Testes – Vas Deferens – Ejaculatory Duct – Urethra

B. Testes – Epididymis – Ejaculatory Duct – Vas Deferens - Urethra

C. Testes – Epididymis – Vas Deferens – Ejaculatory Duct – Urethra

D. Testes – Vas Deferens – Epididymis – Ejaculatory Duct – Urethra

84. Which gland is butterfly-shaped and located in the anterior neck on either side of the larynx?

A. Gonads

B. Pituitary

C. Thymus

D. Thyroid

85. Janie has hyperglycemia and is being treated with insulin. Which of Janie's endocrine glands is functioning inefficiently?

A. Adrenal

B. Pancreas

C. Pituitary

D. Thyroid

86. Joe has impacted ear wax in his right ear. What sensory disorder does he have?

A. Conductive hearing loss

B. Sensorineural hearing loss

C. Tinnitus

D. Vertigo

87. The brain and the spinal cord are part of the:

A. autonomic nervous system.

B. central nervous system.

C. cranial nerve.

D. peripheral nervous system.

88. Trey has the appearance of a tan even during the winter months. During a physical exam, he had a low blood pressure and low blood sugar. These symptoms are indicative of:

A. Addison's disease.

B. Cushing's syndrome.

C. hyperthyroidism.

D. steroid abuse.

89. In external respiration, the diaphragm relaxes creating:

A. a decrease in air volume in the lungs.

B. an increase in air volume in the lungs.

C. an increase in lung capacity.

D. no change in air volume.

90. Urine leaves the kidney by way of the:

A. glomerulus.

B. nephron.

C. ureter.

D. urethra.

91. Paulette has a poor self image and a fear of getting fat. She frequently binge eats and purges with laxatives and vomiting. Which digestive disorder is she experiencing?

A. Anorexia nervosa

B. Bulimia nervosa

C. Cirrhosis

D. Gastroenteritis

92. Trey has a right below the knee amputation. He reaches to scratch his right foot which is no longer there. Trey is experiencing:

A. dermal pain.

B. phantom pain.

C. psoriasis.

D. urticaria.

93. Progesterone supports and helps maintain pregnancy. During which menstrual phase is progesterone produced?

A. Follicular

B. Ovulation

C. Luteal

D. Menstrual

94. James is in the post anesthesia care unit and has a respiratory rate of 14 breaths per minute. What type of breathing is observed?

A. Apnea

B. Dyspnea

C. Eupnea

D. Tachypnea

95. The digestive disorder that could occur if a person abuses alcohol or Tylenol is:

A. cirrhosis.

B. constipation.

C. diarrhea.

D. Ulcers.

96. During this phase of the menstrual cycle LH, estrogen and FSH hormones circulate within a female's body. This phase in the menstrual cycle is:

A. follicular.

B. ovulation.

C. luteal.

D. menstrual.

97. How is Hepatitis A different from Hepatitis B?

A. The patient has jaundice.

B. The patient has nausea.

C. The patient ate contaminated food and water.

D. The patient gets sick from a virus.

98. Mary has muscle pain, fatigue, sleeping difficulties, depression and exercise intolerance. Her doctor has prescribed only symptomatic treatment and states that this disorder is most common in women. Mary's diagnosis is MOST LIKELY:

A. fibromyalgia.

B. muscle spasm.

C. muscular dystrophy.

D. myasthenia gravis.

99. Sitting erect in your desk and walking without hunching demonstrate which muscular system function?

A. Body heat

B. Movement

C. Posture

D. Support

100. Cory stretches every night after running. What is his desired outcome?

A. Atrophy

B. Contractibility

C. Extensibility

D. Hypertrophy

101. The patient complains of night sweats, fever, weight loss, and blood tinged sputum. Which respiratory disorder is the patient experiencing?

A. Acute bronchitis

B. Common cold

C. Emphysema

D. Tuberculosis

102. Which prefix means below?

A. Dys

B. Hyper

C. Hypo

D. Post

103. During a course of antibiotics for a urinary tract infection, the patient began to experience vaginal itching, burning, and leukorrhea. The patient exhibited signs of a:

A. fibroid tumor.

B. pregnancy.

C. salpingitis.

D. yeast infection.

104. What is the window of the eye?

A. Cornea

B. Iris

C. Retina

D. Sclera

105. The functional unit of the kidney is the:

A. aldosterone.

B. bladder.

C. nephron.

D. renin.

106. The substance that is produced by the liver and aids in the digestion of fat is:

A. bile.

B. bolus.

C. glycogen.

D. ptyalin.

107. After running a mile, Sherri has a respiratory rate of 25 breaths per minute. What type of breathing is observed?

A. Apnea

B. Eupnea

C. Orthopnea

D. Tachypnea

108. What type of joint is the elbow?

A. Ball and socket

B. Gliding

C. Hinge

D. Pivot

109. The nurse enters the hospital room and finds the patient is not breathing. The patient has:

A. apnea.

B. dyspnea.

C. eupnea.

D. orthopnea.

110. Melissa's skin lesion has irregular borders, multiple colors, and is increasing size. She visited a tanning bed frequently in the past. She should be evaluated for:

A. dermatitis.

B. melanoma.

C. psoriasis.

D. scabies.

111. The respiratory center located in the medulla oblongata will trigger respiration in response to:

A. increase in carbon dioxide and increase in oxygen in the blood.

B. increase in carbon dioxide or decrease in oxygen in the blood.

C. increase in oxygen or decrease in carbon dioxide in the blood.

D. decrease in carbon dioxide and decrease in oxygen in the blood.

112. A lymphatic structure located in the upper left quadrant of the abdomen is called the:

A. lymph.

B. lymph fluid.

C. spleen.

D. thymus gland.

113. Joe blows into a spirometer and relaxes his diaphragm. This process is:

A. aspiration.

B. exhalation.

C. inhalation.

D. sound production.

114. Mandy's grandfather is having difficulty urinating and the doctor says he may have a problem with one of the glands of the male reproductive system. To which gland is the doctor referring?

A. Adrenal gland

B. Bulbourethral gland

C. Pituitary gland

D. Prostate gland

115. Margo works in a textile factory. She does not wear appropriate hearing protection at work and she is complaining of a ringing sound in her ears. What sensory disorder is she experiencing?

A. Meniere's disease

B. Otitis media

C. Tinnitus

D. Vertigo

116. Menopause normally occurs between the ages of forty-five to fifty-five, but can be induced prematurely by which procedure?

A. Hysterectomy

B. Mastectomy

C. Oophorectomy

D. Tubal ligation

117. The pituitary gland is located:

A. at the base of the brain.

B. atop the kidney.

C. in the chest.

D. in the pelvic cavity.

118. Which heart structure is also known as "mitral"?

A. Bicuspid

B. Left atrium and right atrium

C. Left ventricle and right ventricle

D. Tricuspid

119. The spread of which disorder characterized by nausea, vomiting, and diarrhea could be prevented by practicing good handwashing?

A. Cholecyctitis

B. Gastroenteritis

C. Inflammatory bowel disease

D. Hepatitis C

120. Trey has symptoms of severe headache, nausea and vomiting. At the doctor's office, Trey had a lumbar puncture. His doctor is concerned about which disorder?

A. Cerebral palsy

B. Epilepsy

C. Hydrocephalus

D. Meningitis

121. Women that are sexually active should have an annual exam and screening for the early detection of cervical cancer. This screening is a:

A. colposcopy.

B. laparoscopy.

C. Pap smear.

D. pelvimetry.

122. Mary is 44 years old. She has fluctuating weakness around her eyes, difficulty chewing, and difficulty swallowing. The doctor diagnoses Mary with an autoimmune disorder that has no cure. These symptoms describe:

A. fibromyalgia.

B. muscle spasm.

C. muscular dystrophy.

D. myasthenia gravis.

123. The endocrinologist saw a patient whose parents were concerned about their 8 year old child's short stature. The physician suspects that the child may have a deficiency in:

A. growth hormone.

B. oxytocin.

C. prolactin.

D. vasopressin.

124. Courtney works in the kitchen at her dad's restaurant. She is preparing fries and drops the hot oil on her arm. Immediately a blister forms. She has:

A. decubitus ulcer.

B. first degree burn.

C. second degree burn.

D. third degree burn.

125. Dialysis involves the use of a device that rids the blood of harmful wastes by passing the blood through:

A. a biological sponge.

B. a semipermeable membrane.

C. an electrolyte gel.

D. chemical neutralizers in a filter system.

126. Maggie was recently diagnosed with asthma. Today, Maggie is outside playing and you observe her coughing and becoming anxious. What type of treatment would be recommended?

A. Antibiotics

B. Nothing

C. Rescue inhaler

D. Vaccine

127. Students often have poor posture while sitting at their computers. This posture includes rounded shoulders, head forward, and hunchback. These symptoms describe:

A. kyphosis.

B. lordosis.

C. osteoporosis.

D. scoliosis.

128. When blood passes through the pulmonary valve, which vessel does it enter?

A. Aorta

B. Pulmonary artery

C. Pulmonary vein

D. Vena cava

129. What is the medical term for taste buds?

A. Alveoli

B. Cilia

C. Papilla

D. Pinna

130. Skin conditions caused by contact with allergens, frequent handwashing, or exposure to chemicals are classified as:

A. acne.

B. athlete's foot.

C. dermatitis.

D. herpes simplex.

131. Electrical stimulation throughout the ventricles is delivered by the:

A. AV node.

B. bundle of His.

C. Purkinjie fibers.

D. SA node.

132. Runners who eat pancakes and pasta before a race choose these foods because these foods provide extra:

A. energy.

B. folic acid.

C. iron.

D. protein.

133. Which blood type has "A" antibodies?

A. Type A

B. Type AB

C. Type B

D. Type O

134. Anna has difficulty driving at night. What structure is impaired?

A. Cones

B. Optic disk

C. Optic nerve

D. Rods

135. Amy was in an automobile accident. Her spinal cord was severed and she sustained damage to her brain. The medical staff at the trauma center understands that this substance might leak into surrounding tissues. What is the substance?

A. Cerebral aqueduct

B. Cerebrospinal fluid

C. Choroid plexus

D. Corpus callosum

136. Which body plane divides the body into the top and bottom halves?

A. Coronal

B. Frontal

C. Sagittal

D. Transverse

137. Exercising for prolong periods without adequate rest would cause a(n):

A. buildup of lactic acid.

B. increase in blood sugar.

C. increases atrophy.

D. loss of minerals in bones.

138. If kidney stones get too large, they can cause severe flank pain and hydronephrosis because they block the:

A. bladder.

B. nephron.

C. ureter.

D. urethra.

139. Jo experienced hallucinations, seizures and temporary loss of consciousness. Her doctor diagnosed the condition following an EEG which showed uncontrolled electrical activity of neurons. With which disorder has Jo been diagnosed?

A. Epilepsy

B. Hydrocephalus

C. Meningitis

D. Neuritis

140. The pregnant woman began to have contractions of the uterus in preparation for childbirth. What is the name of the hormone that initiated her contractions?

A. Follicle stimulating hormone

B. Luteinizing hormone

C. Oxytocin

D. Prolactin

141. A diet with adequate iron intake is essential for which blood function?

A. Diapedesis

B. Erythropoiesis

C. Hemolysis

D. Macrophagia

142. Which respiratory structure serves as a common passage way for air and food?

A. Epiglottis

B. Larynx

C. Pharynx

D. Trachea

143. A patient has been diagnosed with emphysema. Emphysema damages the alveoli and they lose their elasticity. The function lost is:

A. the ability to exhale.

B. the ability to inhale.

C. the ability to produce sound.

D. the ability to regulate homeostasis.

144. Which gland is divided into anterior and posterior lobes?

A. Gonads

B. Pituitary

C. Thymus

D. Thyroid

145. Eating a diet high in calcium will improve the health of your bones, teeth, and nervous system as well as:

A. aid in blood clotting.

B. heal damaged tissue.

C. produce energy.

D. promote growth.

146. Janie was diagnosed with infleunza. In addition to respiratory symptoms, Janie may have:is:

A. blood tinged sputum.

B. joint pain.

C. night sweats.

D. weight loss.

147. Which function of the female reproductive system is demonstrated with menarche?

A. Menopause

B. Menstruation

C. Ovulation

D. Pregnancy

148. The bone forming cells are:

A. diaphysis.

B. fontanels.

C. osteoblasts.

D. osteocytes.

149. Which function is demonstrated by the diaphragm contracting and moving downward?

A. Aspiration

B. External respiration

C. Internal respiration

D. Perspiration

150. An organ that produces a secretion called hormones is called a:

A. duct.

B. ductless.

C. gland.

D. target.

151. David has uric acid crystal deposits in his joints and has pain in his great toe. These are symptoms of:

A. gout.

B. osteoarthritis.

C. osteoporosis.

D. rheumatoid arthritis.

152. Helen is an 80 year old woman with stiff and painful joints caused by loss of articular cartilage from normal wear and tear. She suffers from:

A. gout.

B. osteoarthritis.

C. osteoporosis.

D. rheumatoid arthritis.

153. Sue has allergies and complains of a constant clear drainage from her nose. What is her medical condition?

A. Meniere's disease

B. Rhinoplasty

C. Rhinorrhea

D. Tinnitus

154. If your blood type is AB+ you can donate blood to a person that has blood type:

A. AB+

B. AB-

C. O-

D. O+

155. Sebaceous glands produce an increased amount of sebum during adolescence leading to which integumentary system disorder?

A. Acne

B. Alopecia

C. Eczema

D. Herpes

156. Martha has a butterfly rash on her face. This is a classic sign of which lymphatic disorder?

A. Hodgkin's disease

B. Mononucleosis

C. Lymphadenitis

D. Lupus erythematosus

157. Leah was involved in a motor vehicle accident. She has a bleeding wound on her lower left leg with the ends of the bone showing. What type of fracture is this?

A. Compound

B. Dislocation

C. Greenstick

D. Simple

158. What term describes the discharge of an unfertilized ovum and degenerated endometrium from the female reproductive tract?

A. Dysmenorrhea

B. Leukorrhea

C. Menorrhagia

D. Menstruation

159. Which muscle is on the posterior of the lower leg?

A. Gastrocnemius

B. Hamstring

C. Sartorius

D. Vastus medialis

160. The blood component that is responsible for transporting oxygen to body cells is:

A. Hemoglobin

B. Leukocyte

C. Rh factor

D. Thrombocyte

161. Melissa fell off a horse and was paralyzed as a result of significant injury to her spinal cord. Which nervous system was damaged?

A. Autonomic

B. Central

C. Peripheral

D. Sympathetic

162. Which disorder can be prevented by not sharing towels and wearing shower shoes in locker room?

A. Acne

B. Alopecia

C. Athlete's foot

D. Herpes simplex

163. The part of the brain located below the cerebrum is the:

A. cerebellum.

B. diencephalon.

C. hypothalamus.

D. thalamus.

164. Malcolm, an African American male, is seen by the hematologist complaining of fatigue and joint pain. His doctor notes that Malcom's red blood cells have an irregular shape. The doctor suspects a diagnosis of:

A. erythroblastosis fetalis.

B. leukemia.

C. multiple myeloma.

D. sickle cell anemia.

165. Jenna's leg has been in a cast for four weeks due to a fracture. Her physician ordered physical therapy after the cast was removed. Why would the physician order therapy? Physical therapy will treat:

A. muscle atrophy.

B. muscle hypertrophy.

C. poor posture.

D. sarcoplasm.

166. Which structure produces secretions that provide nutrients and protection to sperms upon ejaculation?

A. Fallopian tubes

B. Seminal vesicles

C. Seminiferous tubules

D. Vas deferens

167. Evelyn recently recovered from a viral illness. She will not have this illness again because she has:.

A. Artificial active immunity

B. Innate immunity

C. Natural acquired immunity

D. WBC production

168. Which structure is found in the abdominal cavity?

A. Cecum

B. Esophagus

C. Palate

D. Parotid gland

169. North Carolina has strict immunization requirements for students to attend public schools. What benefits do vaccinations provide?

A. Artificial active immunity

B. Natural immunity

C. Lymphocyte production

D. Sterilization

170. Taylor's grandfather can't pick out clothes that match. What structure is impaired?

A. Cones

B. Optic disk

C. Optic nerve

D. Rods

171. Joe lifts weights daily. He has a bulging through a weak abdominal muscle. What is his diagnosis?

A. Fibromyalgia

B. Hernia

C. Muscular Dystrophy

D. Tendonitis

172. When Joe flexes his bicep, what characteristic of muscles describes what is happening to his bicep?

A. Contractibility

B. Elasticity

C. Excitability

D. Extensibility

173. When analyzing of a patient's blood sample, the laboratory technician documented clotted blood cells. Which blood components were involved in this process?

A. Plasma

B. Erythrocytes

C. Leukocytes

D. Thrombocytes

174. A nursing student observes as the mentor assesses a patient with impaired circulation. To determine if the blood flow to the feet is adequate, the mentor assesses the:

A. apical pulse.

B. brachial pulse.

C. popliteal pulse.

D. radial pulse.

175. Major organs of the body are located within the skull, ribs, and pelvis. What function of the skeletal system are these bones performing?

A. Hemopoiesis

B. Mineral storage

C. Movement

D. Protection

176. Paul is going to the nurse practitioner to receive his immunization for measles, mumps and rubella. What type of immunity to these diseases will he receive?

A. Artificial acquired immunity

B. Natural acquired immunity

C. Natural immunity

D. Passive acquired immunity

177. Which body structure is made up of smooth muscle?

A. Biceps brachii

B. Cardiac wall

C. Stomach wall

D. Trapezius

178. Joe is a high school student. He went to the doctor complaining of fatigue. The physician determined that Joe had enlarged lymph nodes in his neck and increased leukocytes. The physician diagnosed Joe with a viral condition called:

A. HIV/AIDS

B. lupus erythematosus.

C. mononucleosis.

D. scleroderma.

179. Injury to a muscle which involves tearing and bleeding of the muscle is called (a):

A. Sprain

B. Strain

C. Tendonitis

D. Tetanus

180. Keshia developed white patches on her tongue after taking a long course of antibiotics. Which type of sensory disorder is she experiencing?

A. Glossectomy

B. Glossitis

C. Strawberry tongue

D. Thrush

181. Following a transient ischemic attack, diagnostic studies showed that the patient had a bulging vessel in the brain that had leaked. The patient's diagnosis was:

A. Aneurysm

B. Coronary artery disease

C. Peripheral vascular disease

D. Varicose veins

182. The outer layer of hair is the:

A. cortex.

B. follicle.

C. medulla.

D. shaft.

183. An untreated Rh negative mother is having an Rh positive baby. Which condition might be suspected in the baby?

A. Erythroblastosis fetalis

B. Multiple myeloma

C. Polycthemia

D. Sickle cell anemia

184. Jessica is experiencing hematuria. Which process of urine formation has been ineffective?

A. Filtration

B. Reabsorption

C. Secretion

D. Excretion

185. The inner lining of the long bone is the:

A. diaphysis.

B. endosteum.

C. epiphysis.

D. periosteum.

186. Which organ is found in the buccal cavity?

A. Cecum

B. Esophagus

C. Palate

D. Pylorus

187. A small child was being chased by a large dog. Out of fear, the child ran really fast. Which hormone enabled the child to get away from the dog?

A. Adrenal

B. Parathyroid

C. Pineal

D. Thymus

188. Digestion of carbohydrates, fats, and proteins is completed, and absorption of nutrients occurs in the:

A. large intestine.

B. liver.

C. small intestine.

D. stomach.

189. The STI that presents with painful urination and a yellow discharge in males and may have no symptoms in females:

A. chlamydia.

B. genital herpes.

C. gonorrhea.

D. human papilloma virus.

190. The obstetrician instructs a new mother about the changes in her body He/she explains that her breast milk production is the result of:

A. growth hormone.

B. oxytocin.

C. prolactin.

D. vasopressin.

191. Laura has a poor self-image and refuses to eat. Which digestive disorder is she experiencing?

A. Anorexia nervosa

B. Bulimia nervosa

C. Cirrhosis

D. Gastroenteritis

192. Which is a muscle of the arm?

A. Diaphragm

B. Gastrocnemius

C. Trapezius

D. Triceps brachii

193. Frances was seen at the urgent care center complaining of chest pain. Diagnostic tests revealed that Frances had a heart attack. This is caused by:

A. angina pectoris.

B. arrhythmias.

C. coronary artery disease.

D. heart failure.

194. The skin condition that is also classified as a sexually transmitted infection is:

A. acne vulgaris.

B. athlete's foot.

C. herpes simplex.

D. plantar warts.

195. The hair follicle originates in which layer of the skin?

A. Adipose layer

B. Dermis layer

C. Epidermis layer

D. Subcutaneous layer

196. The axial skeleton includes bones of the:

A. arm.

B. foot.

C. leg.

D. skull.

197. What abdominal region is above the hypogastric region?

A. Hypochondriac

B. Iliac

C. Lumbar

D. Umbilical

198. During a routine physical, the doctor discovers that Shirley's systolic blood pressure is 180 and her diastolic blood pressure

is 100. Shirley expects she will be treated for:

A. hypertension.

B. myocardial infarction.

C. transient ischemic attack.

D. varicose veins.

199. Kelsey has an inflammatory response as a result of tampon misuse. Her symptoms include abdominal tenderness, hypotension, respiratory distress, and renal failure. Which female reproductive disorder is she experiencing?

A. Metorrhagia

B. Polycystic ovarian syndrome

C. Premenstrual syndrome

D. Toxic shock syndrome

200. After a stabbing injury to the right chest, you observe John's chest is only rising on the left side. John is experiencing:

A. influenza.

B. pneumonia.

C. pneumothorax.

D. tuberculosis.

201. Which structure of the male reproductive system is suspended in a sac?

A. Epididymis

B. Penis

C. Scrotum

D. Testes

202. Which structure of the male reproductive system surrounds the urethra at the neck of the bladder?

A. Bulbourethral gland

B. Prostate gland

C. Seminal vesicles

D. Thymus gland

203. Jessie was playing outside and started having difficulty breathing. The teacher sends Jessie to the school nurse. The school nurse listens to Jessie with a stethoscope and hears a wheezing noise. What type of disorder may Jessie have?

A. Asthma

B. Bronchitis

C. Emphysema

D. Pneumonia

204. Which structure of the female reproductive system is composed of fat deposits that surround the entrance to the vagina?

A. Cervix

B. Clitoris

C. Labia majora

D. Perineum

205. The end of the long bone is the:

A. diaphysis.

B. endosteum.

C. epiphysis.

D. periosteum.

206. After running 1,500 meters, the athlete experienced irregularities in his/her heart rate. This was an indication that the heart rate was altered. What is the medical term for this condition?

A. Arrhythmia

B. Arteriosclerosis

C. Heart failure

D. Murmur

207. A 19 year old male that has not begun to develop chest hair, a deep voice, or increased muscle mass may be deficient in which hormone?

A. Estrogen

B. Insulin

C. Progesterone

D. Testosterone

208. The matrix is the nail:

A. bed.

B. body.

C. keratin.

D. root.

209. The evaporation of perspiration enables which function of the integumentary system?

A. Production of vitamin D

B. Protection from the sun

C. Regulation of body temperature

D. Sensory perception

210. Primary structures of the digestive system include the:

A. esophagus.

B. tongue.

C. salivary gland.

D. gall bladder.

211. After falling to the floor with breathing problems and severe facial swelling the emergency medical team treated Lisa with:

A. antibiotics.

B. chemotherapy.

C. EpiPen.

D. over-the-counter medication.

212. Saliva and digestive enzymes are responsible for this function of the digestive system:

A. absorption of nutrients.

B. chemical digestion of food.

C. elimination of waste products.

D. physical breakdown of food.

213. Liz has trouble with appetite control, temperature regulation, and her weight. Which area of the brain is affected?

A. Brain stem

B. Cerebellum

C. Cerebrum

D. Hypothalamus

214. The 22 year old patient consulted his physician after noticing scrotal heaviness, back pain and breast development. Upon examination, the physician diagnosed him with:

A. benign prostatic hypertrophy

B. Chamydia

C. orchitis

D. testicular cancer

215. Which muscle is located on the head?

A. Deltoid

B. Gluteus medius

C. Intercostal

D. Zygomaticus major

216. Joe overeats and does not exercise. His BMI

is 31. Which digestive condition is Joe experiencing?

A. Anorexia

B. Bulimia

C. Gastroenteritis

D. Obesity

217. Cranial nerves and spinal nerves are part of the:

A. autonomic nervous system.

B. central nervous system.

C. cranial nerves.

D. peripheral nervous system.

218. The smallest solid components of blood that are composed of fragments of megakaryocytes are called:

A. erythrocytes.

B. leukocytes.

C. plasmas.

D. thrombocytes.

219. The Bowman's capsule, proximal convoluted tubule, and loop of Henle are all parts of a:

A. bladder.

B. nephron.

C. pelvis.

D. ureter.

220. Jack takes his blood pressure medicine every morning. After taking his medicine, he experiences urinary frequency. What type of blood pressure medicine is Jack taking?

A. ADH

B. Antibiotic

C. Diuretic

D. Renin

221. Which endocrine gland contains the Islets of Langerhans?

A. Brain stem

B. Liver

C. Pancreas

D. Thymus

222. How is chyme different from a bolus?

A. It is a liquid.

B. It is acted on by enzymes.

C. It is produced by chemical digestion.

D. It moves through digestive tract by peristalsis.

223. Using a nitroglycerine patch to treat heart disease is an example of which function of the integumentary system?

A. Absorption

B. Excretion

C. Protection

D. Storage

224. The pharynx, larynx, and alveoli are in which system?

A. Digestive

B. Respiratory

C. Sensory

D. Urinary

225. Which gland is posterior to the sternum?

A. Parathyroid

B. Pituitary

C. Thymus

D. Thyroid

226. In an emergency situation, the "fight or flight" hormone will increase the heart rate and blood pressure. This hormone is:

A. ADH.

B. adrenalin.

C. insulin.

D. thyroxin.

227. The digestive organ responsible for elimination of waste is the:

A. large intestine.

B. pancreas.

C. small intestine.

D. stomach.

228. Which structure is a hollow muscular sac?

A. Bladder

B. Kidney

C. Ureter

D. Urethra

229. Major organs of the body are located within the skull, ribs, and pelvis. What function of the skeletal system do these structures perform?

A. Hemopoiesis

B. Mineral storage

C. Movement

D. Protection

230. The heart, blood vessels, and blood are in which system?

A. Circulatory

B. Endocrine

C. Integumentary

D. Sensory

231. A child was admitted to the emergency department with a nosebleed. He was treated by injecting the clotting factor. What was the child's diagnosis?

A. Anemia

B. Hemophilia

C. Leukemia

D. Septicemia

232. The patient notices that he has been bruising easily. Laboratory studies indicate that his blood clots very slowly. It is suspected that this patient might have (a):

A. hemophilia.

B. leukemia.

C. sickle cell.

D. thrombus.

233. Which blood type has no antibodies?

A. Type A

B. Type AB

C. Type B

D. Type O

234. The two synthetic hormones that are used in oral contraceptive are:

A. estrogen and progesterone.

B. FSH and LH.

C. insulin and glucagon.

D. testosterone and androgen.

235. The large intestine includes the:

A. descending colon.

B. duodenum.

C. ileum.

D. jejunum.

236. Which suffix means inflammation?

A. itis

B. ology

C. ois

D. pathy

237. Which organ is an accessory organ of the digestive system?

A. Esophagus

B. Gallbladder

C. Mouth

D. Rectum

238. The patient sustained an electric shock when he accidentally touched live wires while cleaning up the yard following a severe storm. The shock affected his urinary function and resulted in oliguria and uremia. How will the patient's symptoms be treated if he develops anuria?

A. Antibiotics

B. Catheterization

C. Hemodialysis

D. Lithotripsy

239. What is the relationship of the skin to the muscle?

A. Distal

B. Lateral

C. Proximal

D. Superficial

240. As Joe entered college, he developed enlarged lymph nodes that were not painful. He was shocked that he was diagnosed with a cancer called:

A. Hodgkin's disease.

B. lupus erythematosus.

C. mononucleosis.

D. scleroderma.

241. What is the relationship of the arms to the body?

A. Distal

B. Lateral

C. Medial

D. Proximal

242. A viral skin lesion that can recur after removal is

A. macule.

B. pustule.

C. wart.

D. wheal.

243. A teenage girl that has undeveloped breasts and has not started her menstrual cycle indicates that a hormone deficiency exists. What hormone is deficient?

A. Estrogen

B. Insulin

C. Oxytocin

D. Testosterone

244. A viral disorder that leads to paralysis is rare in the U.S. as a result of our vaccinations. Which disorder is almost eradicated in the United States?

A. Encephalitis

B. Multiple sclerosis

C. Poliomyelitis

D. West Nile virus

245. What cavity contains the heart, lungs, and esophagus?

A. Abdominal

B. Dorsal

C. Pelvic

D. Thoracic

246. The lower chambers of the heart are the:

A. Atria

B. Endocardium

C. Cardioseptum

D. Ventricles

247. Joe, 78 years old, has started having tremors and gait shuffling. His family is worried that he is developing:

A. Alzheimer's disease

B. cerebral palsy

C. multiple sclerosis

D. Parkinson's disease

248. Which female reproductive disorder is characterized by abdominal pain, and excessive menstrual bleeding that can lead to permanent damage of the reproductive organs and sterility?

A. Amenorrhea

B. Endometriosis

C. Salpingitis

D. Vaginitis

249. The lobe of the brain where voluntary muscle movement is coordinated is known as the:

A. frontal.

B. occipital.

C. parietal.

D. temporal.

250. Which structure of the male reproductive system is shared between the urinary and reproductive systems?

A. Epididymis

B. Testes

C. Urethra

D. Vas deferens

251. Sue is experiencing tachycardia, and dry mouth following an accident where she sustained an injury. After a few hours, Sue's symptoms disappeared. Which nervous system structures were likely activated?

A. Autonomic nervous system

B. Central nervous system

C. Cerebral ventricles

D. Peripheral nervous system

252. The nerves, blood vessels, and glands are located in which layer of the skin?

A. Adipose tissue

B. Dermis

C. Epidermis

D. Subcutaneous tissue

253. Receptors for touch, cold, and pain present in the skin are responsible for which function of the integumentary system?

A. Production of vitamin D

B. Protection from the sun

C. Regulation of body temperature

D. Sensory perception

254. The digestive system is also known as the:

A. absorption system.

B. alimentary canal.

C. GI canal.

D. intestinal tract.

255. Sarah has been diagnosed with bacterial meningitis. She is experiencing a headache, fever, and stiff neck. How will she be treated?

A. Antibiotics

B. Nothing

C. Oxygen

D. Vitamins

256. The adrenal glands are located directly above the kidneys and are:

A. composed of only a few cells.

B. divided into the cortex and medulla.

C. exocrine glands.

D. pine-shaped.

257. A patient went to the doctor because of extreme fatigue. Upon laboratory study, the doctor tells the patient that she has "low iron." The medical term for this disorder is:

A. anemia.

B. aneurysm.

C. arteriosclerosis.

D. atherosclerosis.

258. On his way to work, the student witnessed a traffic accident. His heart rate increased and his mental alertness improved as he assisted the victims. The student's response result from the release of:

A. corticosteroids.

B. epinephrine.

C. parathromone.

D. thyroxin.

259. The pancreas is also an organ of the:

A. circulatory system.

B. digestive system.

C. lymphatic system.

D. respiratory system.

260. What abdominal region is on either side of the epigastric region?

A. Hypochondriac

B. Iliac

C. Lumbar

D. Umbilical

261. Which heart structure is located between the right upper and lower chambers?

A. Bicuspid

B. Left atrium and right atrium

C. Left ventricle and right ventricle

D. Tricuspid

262. The medical term for excessive urination is:

A. incontinence.

B. nocturia.

C. oliguria.

D. polyuria.

263. Monica is breastfeeding her newborn baby. She notices her left breast is red, tender, and edematous. Which female reproductive disorder is she experiencing?

A. Breast cancer

B. Endometriosis

C. Mastitis

D. Premenstrual syndrome

264. Ashely experienced pain and burning in the epigastric region when she lays flat in bed. This condition improves when she raises the head of her bed. She has:

A. cholelithiasis.

B. gastroenteritis.

C. gastroesophageal reflux.

D. hepatitis B.

265. Which suffix means enlarged?

A. Algia

B. Emia

C. Genic

D. Megaly

266. Which blood components are easily identified in a centrifuged blood sample?

A. Erythrocytes and leukocytes

B. Leukocytes and plasma

C. Plasma and erythrocytes

D. Thrombocytes leukocytes

267. The patient that sustained a spinal cord injury at the T10 level may have paralysis of the legs. This disorder is known as:

A. hemiplegia.

B. paraplegia.

C. paresthesia.

D. quadraplegia.

268. Which blood clotting disorder will present a threat of death to the patient as it travels through a blood vessel?

A. contusion

B. embolism

C. hermatoma

D. thrombus

269. The membrane covering of the brain is known as the:

A. cerebral aqueduct.

B. choroid plexus.

C. meninges.

D. ventricles.