**7th Grade Trimester Final Exam Study Guide**

1. **Know the functions for each body system:**
2. **Skeletal system**
* Provides a strong framework capable for movement
* Protects internal organs
* Storage center for minerals
* Produces blood cells in the bone marrow
1. **Muscular system**
* Makes it possible to move
* Pumps blood through your body
* Moves food through your digestive system
1. **Respiratory system**
* Takes in oxygen to breath
* Removes carbon dioxide from the body
1. **Circulatory system**
* Moves essential supplies (oxygen, nutrients) to your body’s cells
* Removes wastes from the body through the blood
1. **Nervous system**
* Body’s message and control center
1. **Digestive system**
* System that converts fuel into usable energy
1. **Excretory system**
* body’s waste and removal system
1. **Endocrine system**
* Body’s chemical communication center(makes changes in the body)
1. **Reproductive system**
* **Female**- produce off spring
* Give birth to the child
* Store eggs
* **Male**
* Produce off spring
1. **Know the main organs for each of the body systems and their functions**
* **Skeletal**- is made up of **bones**- framework,  **joints**- the point where two bones meet, ball & socket, hinge, gliding, & pivot - & **connective tissue**-**Tendons**- connect muscle to bone**, ligaments** connect bones together, **cartilage** cushions the joint preventing friction, bone marrow-produces blood cells.
* **Muscular**- muscles makes the body capable to move
* **Respiratory**- **lungs**- take in oxygen get rid of carbon dioxide
* **Circulatory- heart**- pumps blood through your body
* Nervous- brain controls all your body’s actions
* **Parts of the brain** -cerebrum**-** largest part controls speech thinking, movement.& memory
* Cerebellum- balance & motor skills
* Brain stem- controls heartbeat, breathing, & digestion
* **Spinal cord**-nerve tissue relays messages to and from the brain and body
* **Digestive**- Small intestine- where most digestion takes place
* **Excretory**- Large intestine(colon)storage center for food that cannot be digested
* **Endocrine**-glands- Pituitary gland (master gland)responsible for the onset of puberty and growth
* **Reproductive**- Female ovaries produce hormones & store eggs

 Male testicles- produce sperm & testosterone

1. **Know the problems for the body systems**
* Skeletal-Fracture, dislocation, sprain, overuse injuries, scoliosis, osteoporosis
* Muscular-sore muscles, muscle strain, muscular dystrophy
* Respiratory-asthma, pneumonia, bronchitis, influenza, TB
* Circulatory-heart attack, stroke, hypertension, leukemia
* Nervous-TBI, meningitis, brain tumor, multiple sclerosis, epilepsy
* Digestive& excretory-gallstones, appendicitis, hemorrhoids
* Endocrine- type 1 & 2 diabetes, under & over active thyroid
* Reproductive-cancers, STD’s, hernias
1. **Know the different joints of the skeletal system**
* Hinge joint-movement in one direction(elbow & knee)
* Gliding-bones slide over one another(wrist and ankles)
* Pivot-limited rotation-(head & neck)
* Ball & socket-complete rotation(hips & shoulders

5. **Know how many bones are in the human body**-206

6**. Know the three different types of muscles we have in our body**

 \* Skeletal muscles- voluntary muscles connected to bone

 \* Smooth muscles- muscles found in organs, blood vessels, and glands-involuntary

 \* Cardiac muscles- muscles in the walls of the heart

7. **Know the male & female reproductive glands**

 \* Female-ovaries

 \* Male- testes (testicles)

8. Know the different parts of the nervous system

 \* Central nervous system-brain & spinal Cord

 \* Peripheral- somatic & autonomic

9. **Know the different parts of the brain**

 \* Cerebrum – largest part controls movement, speech, thinking, & memory

\*Cerebellum- controls balance, posture, and coordination

\* Brain stem-controls heart -beat, breathing, & blood pressure

10. **Know the different blood vessels**

 \* Arteries- takes blood away from the heart

 \* Veins- takes blood back to the heart

 \* Capillaries- tiny blood vessels that connect the veins and arteries to the body’s cells

11. Know where digestion takes place

 \* Small intestine

12. Know the muscle that makes the lung work

 \* Diaphragm

13. Know the connective tissues of the skeletal system

 \* Cartilage- cushions your joints

 \*tendons- connect muscle to bone

 \* Ligaments- connect bones in each joint