**Physiology H PGP Semester I Guidelines**

*You think you could teach better than your teacher? Here is your chance to show your teaching skills!*

***To get credit for your presentation, use the following guidelines:***

* Maximum # of students/group = 4; Make sure each member participates; Make eye contact; do not read from a slide/note cards
* Use images from the PowerPoint to explain the concepts (less text; only 4-5 bullets/slide)
* Insert and use a hyperlink for a video clip in your presentation
* Time your presentation: 20-25 min
* Use large font size (min=24) for each slide and Don’t use too much text per slide
* Have a quiz/quizlet/Jeopardy or for the class at the end of the presentation; be prepared to answer any questions!
* Be creative!

* + - * + Extra Points: Healthy Food/snacks for the class!

Topics for Presentations:

Chapter 1: Homeostasis-Introduction to the human body Peer Group I

Relationship between structure and function, structural/organizational levels, characteristics of life, homeostasis: negative/positive feedback mechanisms-examples from real life; body cavities/regions/terms. Pg 1-13; p13-20

Chapter 4: Tissues-Tissues, Glands and Membranes Peer Group 2

Characteristics/types of epithelial tissue, their functions and location; glands; types of connective tissue -examples; types of muscle and their functions; functions of nervous tissue-neurons; tissues review. Pg 110-133; p134-144

Chapter 20: Hearts- The Heart Structure, Function and Regulation Peer Group 3

External and internal anatomy of the heart; Blood supply to the heart; heart chambers; heart valves; major blood

vessels; Path of blood through the heart; heart muscle; Heart sounds Pg 679-690; 691-711

Chapter 21: EKG- Regulation of heart Peer Group 4

electrical activity of the heart; conduction system of the heart; electrocardiogram; cardiac cycle; regulation of the

heart; heart health and diseases; diet/exercise balance

Chapter 6, 7: Bones-The Skeletal System Peer Group 5

Functions of the skeletal system; features of a bone; bone fractures and injuries; axial skeleton and its bones; appendicular skeleton and its bones. Pg 174-182; 183-192; p204 table 7.1; axial and appendicular skeleton; p206 table 7.2; all terms for the quiz.

Chapter 8: Joints-Articulations and Movements Peer Group 6

Types of joints; types of movement; aging and joint disorders. Clinical Focus: Pg 271, 273, 274; pg 253-table 8.1; pg 258-table 8.2.

Chapter 9, 10: Muscles-The muscular system Peer Group 7

Functions of the muscular system; characteristics of skeletal muscle; role of membrane potentials; muscle contraction; smooth muscle and cardiac muscle; major muscles of the body; muscle disorders. Pg 279-285; 285-290; 295-298; p 306 table 9.5; p325-326: fig 10.5; List of major muscles with origin, insertion and function (check with Dr. Malhotra).

Chapter 11, 12: Neurons-The Nervous System Peer Group 8

Neurons and neuroglia; role of membrane potentials and action potentials; the synapse; spinal cord; reflexes;

Ch 11: Pg 375-382; p382-398 Ch 12: p412-422; 422-437; Names and functions of major spinal nerves.

Chapter 13, 14: The Brain-nerves and NS regulation Peer Group 9

Divisions of the nervous system; brain; speech and memory; cerebrospinal fluid; functions of the nervous system; limbic system; brain disorders; Ch 13: p444-454; 454-462; 462-417; Names and functions of major cranial nerves

Chapter 5: The Integumentary System Peer Group 10

Structure and functions of skin; accessory skin structures; effects of aging on skin; skin cancer; burns; skin disorders.

Pg 150-157; p158-167

***Your assignment topic: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

**Physiology H PGP Semester II Guidelines**

*You think you could teach better than your teacher? Here is your chance to show your teaching skills!*

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* Be creative! Extra Credit: Healthy Food/snacks for the class!

Topics for Presentations:

Peer Group I Chapter 15: Smell, Vision and current medical technology The Special Senses: Structure, Function and Disorders of the smell and vision (eye-pg 521—541).

Taste and hearing-structure, function and disorders Pg 515-520 (taste) and 542-558 (ear)

Peer Group 2 Chapter 17 and 18:The Endocrine System

Endocrine System: Structure, function, and disorders of the endocrine system; endocrine glands. Pg 586-597; 597-605; table 18.12; p610-638; 651-667; 667-674.

Peer Group 3 Chapter 19 and 21:The Blood and Circulation

Blood: Blood- Grouping, Structure, Function, and disorders; Circulation (arteries and veins). Pg 651-662; 662-674.

Pg 722-728; fig 21.8; table 21.2; table 21.3; table 21.5; fig 21.18; table 21.7; fig 21.26; table 21.12; pg 752-775.

Chapter 22: The Lymphatic System

Structure, function, regulation, and disorders; Immunity and white blood cells. Pg 783-798; 798-818

Peer Group 4 Chapter 23: The Respiratory System

Respiratory System-Structure, Function and Diseases; How lungs function-exercise and the air capacity of the lungs.

Pg 826-840; 840-865

Peer Group 5 Chapter 24: The Digestive system

The digestive System: Structure and function. Pg 874-896; 896-920

Peer Group 6 Chapter 26: The Urinary System

Structure, Function, Regulation, and disorders of kidneys, nephrons, and urinary system. Pg 962-979; 979-998

~~Chapter 27: Water, Electrolytes, Acid-Base Balance Peer Group 9~~

~~Water, Electrolytes, and Acid-Base Balance: Regulation of Body Fluid Concentration. Pg 1005-1016; 1016-1027~~

Peer Group 7 Chapter 28: Reproductive System

Compare the male and female reproductive systems; Human vs pig reproductive systems; male and female reproductive hormones and their functions; puberty; menstrual cycle; infertility; reproductive system disorders and their treatment

***Your assignment: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***