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Anatomy and Physiology Test
Chapter 1

Name: _____

Date: _____

Number the levels of organization from smallest [1] to largest [6] (2pt/each)

- _____ 1. Orgia
- _____ 2. Cells
- _____ 3. Organ
- _____ 4. Organ System
- _____ 5. Animal
- _____ 6. Tissue

Match the body system with its description, function and with its organs (1 number and 1 letter with each blank) (2pts/each):

Organs	Organ System	Function
A. Brain, bones, skull	5. Integumentary	1) Regulates climate by small particles that can be absorbed
B. Brain, spinal cord	6. Skeletal	2) Controls the body with chemicals
C. Blood vessels, heart	7. Muscular	3) Delivers oxygen and nutrients to the body tissues
D. Endocrine, large intestine	8. Nervous	4) Is damaged when you eat too finger or get a severe sunburn
E. Kidneys, bladder; ureters	9. Endocrine	5) Moves the body, allows initial excretion
F. Large	10. Digestive	6) Provides support and leaves on which other systems can act
G. Pancreas, adrenal glands	11. Respiratory	7) Provides for respiration and fluid bearing
H. Gastro-Intest., lungs, kidneys	12. Cardiovascular	8) Protects the body, destroys bacteria and tumor cells
I. Skin, bone marrow	13. Lymphatic	9) Removes cell debris from the blood
J. Spleen, lymph nodes	14. Urinary	10) Removes, transports, and responds to wastes from the entire body parts
K. Stomach, intestines	15. Reproductive	11) Holds the body of intact containing water

Match the survival need that corresponds to the description (1 pt/each):

A. Atmosphere;	_____	20. Includes carbohydrates, proteins, fats, and minerals
B. Permanent	_____	21. Essential for normal operation of the respiratory system and breathing
C. Appropriate Body Temperature	_____	22. Single molecule accounting for over 90% of body weight
D. Nutrients	_____	23. Required for the release of energy from foodstuffs
E. Water	_____	24. When too high or too low, physiologic activities cease, primarily because molecules are destroyed or become nonfunctional
F. Oxygen	_____	

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

MSc. DEGREE EXAMINATION – MEDICAL LAB TECHNOLOGY

FIRST SEMESTER – NOVEMBER 2014

ML 1812 - HUMAN ANATOMY AND PHYSIOLOGY

Date : 03/11/2014

Dept. No.

Max. : 100 Marks

Time : 01:00-04:00

SECTION-A

Answer ALL questions:

10x2=20 marks

1. Mention the lobes that are present in cerebral cortex.
2. Define tidal volume and total lung capacity.
3. Draw a labelled structure of neuron.
4. Mention the types of cells that are present in epidermis.
5. Write the role played by the centers in hypothalamus.
6. List down the functions of muscle.
7. Draw and label the structure of human tooth.
8. Mention the primary functions of lymphatic system.
9. Enumerate primary and secondary sex organs of female.
10. Differentiate sensory from motor nerves.

SECTION B

Answer any FOUR of the following:

4x10=40 marks

11. Draw the structure of respiratory system and explain the lower respiratory organs.
12. Give an account on the composition and abnormalities of saliva.
13. Explain the regional terms of human body.
14. Draw the structure of pancreas and abnormalities of pancreatic hormones.
15. Discuss the structure and functions of hind brain.
16. Describe the oogenesis.

SECTION-C

Answer any TWO of the following:

2x20=40 marks

17. Draw the structure of nephron and explain the mechanism of urine formation.
18. Describe the structure, location and functions of connective tissue.
19. Give an account on the actions and abnormalities of anterior pituitary hormones.
20. Classify the types of muscles and explain the mechanism of muscle contraction.

Skeletal Tissue	Mechanics
A point of articulation between two or more bones; especially such a connection that allows motion	joint
cartilage is _____ which means it has the properties of solid, liquid, and _____	triphasic - electricity
Articulating cartilage exists where?	synovial/joint/cuboid/articular joint
How much of cartilage is water?	60-85%
What are the three types of joints? Which has the largest degree of motion?	fibrous cartilaginous synovial-largest degree of motion
Describe the look of articular cartilage.	thin and dense, white connective tissue
Immovable joints	fibrous joints
What is in the joint space/cavity?	synovial fluid pushed out by cartilage
the bone immediately underneath the cartilage is	subcortical bone
True/False: Cartilage exists in your growth plate and is solidified when the plate fuses	true (not articular cartilage)
examples of fibrous joints	skull joints tibiofibular joint radioulnar joint
cartilaginous joints examples	sternum to ribs

1

- Idiopathic thrombocytopenic purpura
 - IgG against platelets
 - Hyperplasia of megakaryocytes in bone marrow
 - Spleen is making the antibodies then destroys platelets
 - Microangiopathic hemolytic anemia
 - Platelet microthrombi in small blood vessels
 - RBC sheared and become schistocytes
 - TTP
 - Deficiency ADAMSTS 13 which normally cleaves vWF multimers
 - Can form a platelet microthrombi
 - Often due to autoantibody presents in older women
 - Hemolytic uremic syndrome
 - E. coli O1587 damages endothelial cells form platelet microthrombi
 - Bernard-Soulier syndrome
 - GP1b deficiency so less platelet adhesion
 - Platelets thus are bigger and less in number
 - Glanzmann thrombasthenia
 - GP2b/3a deficiency so less platelet aggregation
 - Aspirin induced platelet change
 - Blocks cyclooxygenase, thus less TXA2 so calls less platelets
 - Uremia
 - Nitrogenous buildup from renal problem causes platelet adhesion and aggregation problem
 - Hemophilia A
 - Factor 8 deficiency XLR
 - Hemophilia B
 - Factor 9 deficiency
 - Anti-factor 8
 - Antibody against coagulation factor
 - Differentiate from Hemophilia by mixing with normal serum
 - Von Willebrand Disease
 - Problem with platelet adhesion, so increased bleeding time
 - Increased PTT because vWF stabilizes factor 8
 - Abnormal ristocetin test, treat with desmopressin to release vWF
 - Vitamin K deficiency
 - 2,7,9,10, C, S all need gamma-carboxylation
 - Epoxide reductase activates vitamin K (Coumadin blocks epoxide red)
 - Liver failure hemostatic factor
 - Decreased coagulation factor prod., less epoxide reductase (vit K)
 - Heparin-induced Thrombocytopenia (HIT)
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"(C)" You can conceive immediately, as you are good. "(D)" You should avoid gaining weight during pregnancy because you are already overweight and at risk of type 2 diabetes mellitus "(E)" You should not have problems with pregnancy if therapy starts with insulin. "(Answer: a) A 55 -year -old man had overwhelming underground chest pain in the last 6 weeks. EXAMINATION OF STEP 1 continues to evaluate the relate to the discipline of pharmacology. More than 100 Step 1 testing issues are dispatable in PDF format and as an interactive test experience. Normally, the mpsia occurs in the short term. The fanatic exam shows a tenderness of the right upper end. In medicalstudyzone.com, we have the experience of the enjoyment very much to SAI and, thus, we always effort to improve. 1. Learn more how customers work in the Amazon USMLE Step 1 for the question of CTICE ,today we start A new blog feature focused on USMLE's practical questions Step 1. General Vision Physiology: USMLE Step 1 Review 700 Questions and Answers 9th PDF is one of the best books for review Raired. She doesn't have a history of great diseases Mä © Tips and no medicines . A sample of bladder bio. In addition, the MedicalStudyzone.com server is not any type of book, guide, software or images. She claims that a friend recently delivered a newborn with a neural tube defect and wants to reduce her risk of having a child with this condition. Here we have a two -part physiology question: an obese, granted and 26 -year -old woman was seen in the emergency room complaining of dizziness and lack of micron. (A) exposure to a quanomic toxin (b) cystitis (C) Malacopial;isi (D) Esgistosomas (E) Veicoretral Veisusal (Answer: D) In addition to their usual therapy, all children are treated with acupuncture sometimes a week for 2 months. Which of the following alternatives is the most appropriate initial declaration of mothers? Salt and water retention and edema are results of renal decrease in renal function. Remember that we have no copyright in this book/software. He smoked two cigarette packages daily for 30 years. The most compatible column findings with the diagnosis of ,2. (a) case-control case (B) Crossover of the case of cases (C) (D) History cohort (E) (E) clinic test Randomized (Answer: ,b) A 26 -year -old woman comes to her husband with her husband for counseling before conception. Her baby was delivered by the Emergency Cesarean section and the woman recovered her health soon. Sixty children with chronicles are recruited for the study. Treatment with an adrened block agent is more likely to improve your symptoms because of the following mechanisms? (A) decrease in myocance contractility (B) by dilating the coronary arts (C) vasodilation peripheral (D) preventing fibrin plugs and platelets (Answer: A) A 31 -year -old woman is taken to the Emergency Department 45 minutes after lesion maintenance in a motor -to -engine collision. However, the main focus of this containment will be in the mechanisms of medicines action, and not in specific pharmacotherapy, drug interactions, adverse effects or contraindications of medicines. If this patient suffered damage to the radial nerve, the altered sensation for the bite of which of the following would probably confirm the diagnosis? He lived in the sub-Saharan cold cold, to reach the US 6 months for the gradation. To calculate the star's general classification and Star's percentage rate, we don't use a simple day. In extreme cases, the mpsia is characterized by spasms seúÁsluvnuc seúÁsluvnuc coma, kidney failure, liver malfunction and, if untreated, death. In order to ensure that user security is not compromised and you enjoy faster downloads, we use trusted third-party repository links that are not hosted on our website. No illegal copies or any copyright © and/or copyright are damaged or infringed, since all material is free on the internet. An effective drug of choice in the treatment of this disease would have what physiological effect? See our DMCA policy. If you feel you violated your copyright, then contact us immediately. The doctor wants to evaluate the integrity of the radial nerve, but the patient has severe pain with movement of the upper end. A 27-year-old woman comes to the office for advice before conception. She was markedly edematous. Arterial spasms lead to malignant hypertension and a decrease in renal perfusion. Which of the following best explains the biopsy findings? Rapid administration of vasodilator will reduce blood pressure and delivery of the fetus by cesarean usually produces rapid recovery. 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Soon after the hospital admissions, she experienced severe convulsions. (A) anterior medial superphyte of the forearm (b) palmar surface of the index finger (C) Small finger palmar superphyte (d) posterior lateral surface of the Small finger posterior (e) sunswer surface (ANSWER: d) One A 28 -year -old man comes to his writing because of a 1 year -year -old history with mycion that increased in gravity during the past. It is a good book to study the day before the exam. We are sharing this with our bullshit for educational purposes and encourage our visitors to buy original licensed software/books. A x-ray shows a fracture in the middle of the right Humerus. Is it more appropriate to recommend that this patient begin supplementation with a vitamin that is a cofactor in which of the following processes? In this post, we will share a free PDF Download Physiology: USMLE Step 1 Review 700 Questions and Answers 9th Edition PDF using direct links. Also analyzed dw into the reliability. Examination shows normal cardan sounds and without carotan or femoral hematomas. If someone with copyright wants us to remove this software/book, please contact us. Its concentration of glucose is rich of fasting is 110 mg/dl. He can also cover his living questions and will help him score very high. His mother is three of his five sister to be type 2 diabetes mellitus (A) reduce uterine irritability (B) prevent cervical dilation (C) reduce amnic fluid production (D) Relax the smooth arterial tender à € "USMLE Step 1 The answers are: 1-d; 2-D. You can send an email to to all removal requests / DMCA. The fanatic examination does not show abnormalities. 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