DENTAL SEC B PHYSIOLOGY, 2ND SEMESTER

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Attempt all questions. Every question carry 10 marks.

Q1. Write the functions and composition of blood?

Ans: function of blood.

Basic functions of blood

1)Transport of nutrient wast product, blood gases, (oxygen and carbon dioxide, signalling molecules.

2)Immune function.

3)To maintain haemostasis of water ion are pH

4Distribution of heat throughout the body.

5)Blood clothing.

Composition of blood

Blood is the body fluit tissue

It is composed of liquid plasma and formed elements.

Formed elements include

Erythrocyte or red blood cell

Leukocyte or white blood cell.

Plateles

Plasma :55%

Formed elements :45% (red blood cell, white blood cell, Plateles

Plasma :92 % water

Mineral ion, glucose and nutrient, hormones, co2, protein

Q2. What is erythrocyte, erythropoiesis, erythrocytosis and erythropenia?

ANS :erythrocyte : a type of blood cell. That is made in bone marrow, and found in the blood erythrocyte contain a protein called hemoglobin which carry oxygen from the lungs to all part of the body also called rbc (red blood cell)

Erythropoiesis :Erythropoiesis is a process which produce red blood cell which is the development from Erythropoiesis steam cell to mature red blood cell it is stimulated by decrease o2 in circulation which is detected by the kidney which then secrete the hormone Erythropoietin.

Erythrocytosis :Erythrocytosis is define as an increase in red blood cell (rbc) mass usually absolute and is also associated with an increase hematocrit (HCT) and hemoglobin concentration. Although some use the term polycthemia inter changeable with Erythrocytosis.

Erythropenia : the presence of decreased number of erythrocytes in the blood, as occurs in some form of anemia, also called erythropenia.

Q3. What is platelets and write about clotting mechanism and its all steps?

Ans :platelets are thrombocytes as small colourless cell fragment in our blood that from clots and stop or present bleeding platelets are made in our bone marrow the sponge like tissue inside our bones, bone marrow contains stem cell that develop in to red blood cell,white blood cell and platelets.

Q4. Write a note on ABO system?

ABO blood group system the classification of human blood based on the inherited properties of red blood cell (erythrocytes) as determined by the presence or absence of the antigens A and B. Which are carried on the surface of red cell. Person may thus have types A and B, types o, or type AB blood

Blood containing red cell with type A antigen on their surface has in its serum (fluid) antibodies against type B blood is injected in to person with type A blood, the red cell in the injected blood wih be destroyed by the antibodies in the recipients blood in the same way type A red cell will be destroy by anti A antibody in type B blood type o blood

Blood can be injected in its person with type A , B or O blood unless their is incompatibily with respect to same other blood group system also present person with type AB blood can recive type A, B, or o blood.

Q5.(i) A person fell down from a tree and become unconscious, with bleeding from head, what will you do as a first aid?

ANS :frist I should see his condition if injury is drowsy or unusuall and the person cannot be woken or show any serious damage of brain than I can ambulance. But I treat I stopped his bleeding with the help of frist aid kit I used cotton Toor bandages to stopped his bleeding. If he breathing I roll them in to the recovery position (on their side so that their tongue fall forwards in the mouth.

(ii) you have to meet with your friend and you came to know he is covid positive, what precautionary measures will you take?

ANS I will suggest him or her to isolate him are her self I will use sope and will got for test as you khow corona spread so fast through air and social distance is must so that will be the main reason to do check up and I will try to isolate my self as will.