*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 blood*

*Blood is body fluid and human and other animal that deliver necessary substance such as nutrient and oxygen to the cell and transport and metabolic waste product away from those cell in vertebrate it is composed of blood cell suspended in blood plasma*

*composition of blood*

*blood consist of*

*liquid plasma (valume 55-60%)*

*formed element(volume 40-45%)*

*Blood is classified is a connective tissue and consist of two main component*

*Plasma which is clear extra cellular fluid formed element which are mad of blood cell and platelets*

*Formed element are.*

*Erythrocyte’s .also known as red blood cells RBC*

*Leukocytes also known as white blood cell WBCs*

*Functions of blood*

*BloodBlood has three main functions: transport, protection and regulation.*

*Transport*

*The blood carries the following substances.  
The gases, namely oxygen (O2) and carbon dioxide (CO2), between the lungs and the rest of the body  
tive Nutrients from the digestive and storage areas to the rest of the body  
\* Liver and kidney waste products should be detoxified or removed  
The hormones from the glands in which they are made in their target cells  
warm the skin to help regulate body temperature*

*Protection*

*Blood has several roles in inflammation:  
Leukocytes, or white blood cells, kill invading microorganisms and cancer cells  
\* Antibodies and other proteins eliminate pathogenic substances  
Platelet factors begin to clot and help minimize anemia*

*Regulation*

*Helps control blood:  
ids pH by interacting with acids and bases  
Water balance in tissues and by transferring water*

*Show more*

*Show less*

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

*Ans erythrocyte*

*A cell that contain hemoglobin and carry oxygen to the body also called red blood cell RBC .THE RIDISH COLOULAR IS ERYTHROCYTE are bio concave shape ,which increase the cell surface of area and faculties the diffusion of oxygen and corbondioxide*

*Erythropoiesis*

*The formation of red blood cell in blood forming tissue in the early tissue of fetaus , erythoposis take place in the yolk sac ,spleen ,and liver after birth ,all eruthroposis occur in the bone marrow*

*Erythrocytosis*

*Also known as polycythemia refer to in increase in red blood cell mass it can be relatives or obsilitive . in relative polycythemia there is increase in plasma volume it making it appear that there is in increase in red blood cell.*

*Ertheropenia*

*The defiency of red blood cell (RBC)*

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

*Ans platelets*

*Are thrombocyte are small collarless cell fragments in our body that from clot and stop or prevent bleeding . platelets are mad in our bone marrow the spongy like tissue in side bone .bone marrow contain steam cell that developed in to red blood cell ,white blood cell platelets*

*Clothing mechanism*

*Coagulation also known as clothing is the process by which change blood change a liquid to a get a forming a blood clot . the mechanism of coagulation involve action adhesion and aggregation of platelets as well as deposition and maturation*

*Step of blood clot mechanism*

1. *injury*
2. *vessel constriction*
3. *platelet plug*
4. *fibrin clot*

*Q4. Write a note on ABO system?*

*Ans BLOOD*

*Blood type (also called blood group) is a blood classification based on the presence or absence of inherited antigenic substances (proteins) on the surface of red blood cells (RBCs).  
Blood types are inherited and represent the partnership of both parents  
The two most important ones are the ABO and RH antigen systems, they determine the status of one's blood type (A, B, AB and O + + with + or - Null RhD). Rhesus element level Is an inherited protein (found in red blood cells). If you have protein in your blood, you are Rh positive. If you are deficient in protein in your blood then you are Rh negative*

*ABO SYSTEM*

*O 47%*

*A 41%*

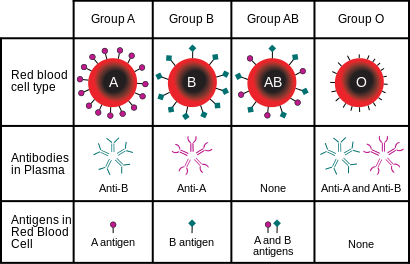
*B 9%*

*AB 3%*

*By Dr. Carl Landsteiner 1900  
Inherited from parents  
Based on A and B antigens-Agglutinogens  
May be,  
none of these  
One of them  
Both of them*

*agglutinugen*

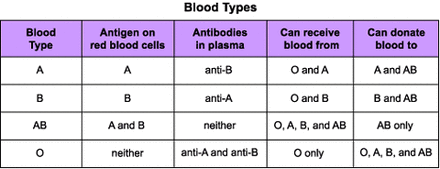
*Agglutinogens on the surface of  
Agglutinins in blood plasma  
May cause blood transfusions*

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Role of blood groups in blood transfusion

*If there is no match, then hemolysis  
  
Blood typing is mandatory*

*Blood transfusion*

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*Complications of blood transfusion with reference to ABO incompatibility*

*Similar blood. Anti-A plasma agglutinins were transferred from A Aglutinogen, ie blood group A, to blood group B with RBC*

*The agglutinins have bound sites; the agglutinins attach themselves to the RBC antigen ◊ aggregation ◊ hemolysis*

* *Acute hemolysis*
* *Jaundice*
* *Kidney shutdown*

*Q5A )a person fell dawn formed a tree and become unconscious with bleeding from head , what will do you at a first kid*

*ANS Stirring is a type of brain injury (or mild TBI). This is when the head moves back and forth with great force due to a blow or injury to the head. It causes chemical changes in the brain and sometimes damages brain cells.  
Children and adolescents who follow their healthcare provider's recommendations usually feel better within a few weeks of hesitation.*

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***What Are the Signs & Symptoms of a Concussion?***

*Someone who is hesitant can be knocked down (this is called losing consciousness). But one does not have to be hesitant.  
Signs and symptoms of a commotion include:  
• Headache  
\* Blurred vision or double vision  
\* Dizziness, difficulty balancing or difficulty walking  
• Confusion and things that are not understood  
Demonstration of slowness in answering questions  
• Ambiguous speech  
ause nausea or vomiting  
can't remember what happened  
• not feeling well  
Symptoms of melancholy usually immediately. Occurs, but also appears hours or days after an injury. Conflicting youth:  
ing Difficulty concentrating  
learning is a learning or memory problem  
a Headache that gets worse  
Sleep is a problem  
sad Feeling sad, easily upset or angry, or nervous*

*Show more*

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*Q5 B) you have meet with a friend and you come to know he is covid positive , what precaution measure will you take*

* *Ans Close contact with each other*
* *Through a drop of breath produced by a lazy person's cough  
  Wash your hands  
  Avoid close contact  
  Monitor your health  
  Cover up coughing and sneezing  
  Cover your mouth and nose with a face mask*

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THE END