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Attempt all questions;

Q3: which are the cells having proliferative capacity? Explain them also write about the characteristics of Benign tumor?

Ans:-

The bone marrow precursor cell types called stem cells have a very large capacity for self renewal. This makes them a useful model system in which to test the hypothesis that normal somatic cells have a limited proliferative capacity.

Characteristics of benign tumors:-

1):- cells resemble normal cells and tumor architecture resembles that of the mature organ - homologous by appearance to architecture color consistency.

2):- usually are spherical and compress the surrounding tissues- expansive type of growth.

3):- Grow slowly and have few mitotic figures only tissue atypism.

4):- Never give metastasis and recurrences.

Q1:- what are the circulating cells in acute inflammation? also write the characteristics of acute inflammation.

Ans:- circulating cells:-

Circulating cell is a cell that is shed into the vasculature or lymphatic from a primary tumor and is carried around the body blood circulation.

Inflammation Acute:-

Inflammation is a short term process occurring in response to tissue injury usually appearing within minutes or hours. It is characterized by five cardinal signs.

1) pain, 2) redness

3) immobility 4) swelling

5) Heat.

Q2:- write a note on infarction and its type and write a note on mast cell.

Ans:- infarction:-

Infarction is tissue death due to inadequate blood supply to the affected area. It may be caused by artery blockages, rupture, mechanical compressions or vasoconstriction.

TYPE OF INFARCTION

•HEART:- Myocardial infarction commonly known as a heart attack is an infarction of the heart some heart cells die

•BRAIN:- cerebral infarction is the ischemic kind of stroke due to a disturbance in the blood vessels of the brain.

MAST CELLS:-

Mast cells are marrow derived immune cells that home to various tissue compartments where they carry out roles in host defenses against infections, pathogens, allergens, toxins, and autoimmune disease.

They are essential to the innate immune response and they participate in both positive regulation of the adaptive immune response.

Q5:-

Ans:- Edema:-

Edema is swelling caused by excess fluid trapped in your body tissues. Edema can affect any body parts head arms feet etc

CLASSIFICATION OF THROMBOSIS

venous thrombosis

.Deep veins thrombosis

.portal vein thrombosis

.renal vein thrombosis

.cerebral venous sinus thrombosis

Arterial thrombosis

.stroke

. Myocardial infarction

.other sites.

Q4:-

Ans:-

Hypovolumic shoock;-

Hypovolumic shock is an emergency condition in which several blood and fluid loss make the heart unable to pump enough blood many organ to stop working.