

48 hours

Class Code. _____
16592 DT

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Note:

- Attempt all questions from this section.
- Use Blue / Black Ink only. Do not use red color.
- Tick or encircle only one option in each given question.

*It's an open book Conceptual Assignment paper.
Time to Use your brain now.*

1. Briefly explain the process of hematopoiesis along with diagrammatic illustration. (Marks 10)
2. What are the factors that influence the respiratory rate, explain in detail. (Marks 10)
3. Enlist different layers of skin, write a detailed note on epidermis. (Marks 10)
4. Define lymphatic system, what are different components of lymphatic system? (Marks 10)
5. What is blood pressure? How will you check and record blood pressure of a patient? (Marks 10).

Q 4 :define lymphatic system and component of lymphatic system?

Answer:lymphatic system

The lymphatic system represents an accessory route by which fluids can flow from the interstitial space into the blood.

COMPONENTS:

Vessels: they are called lymphatics.

Fluid :they are called lymph, It flows through the Lymphatics.

**Lymphocytes: they are white blood cells, which are cells of
The lymphatic system**

**Lymphoid tissue or organs: tonsils, lymph nodes, spleen,
Thymus.**

Q5?

ANSWER:

Blood pressure:

**The force per unit area that blood exerts on the inside
walls of a blood vessels is called blood pressure.**

CHECKING AND RECORDING BLOOD PRESSURE:

PROCEDURES:

- > To begin blood pressure measurement, use a properly sized
Blood pressure cuff.**
- > Wrap the cuff around the upper with the cuff's lower edge one
Inch above the antecubital fossa.**
- > Lightly press the stethoscope's bell over the brachial artery
Just below the cuff's edge.**

> Rapidly inflate the cuff to 180mm Hg

Q3?

ANSWER:

Layer of the skin:

Structurally the skin is composed of two layers.

1: Epidermis

2: dermis

Epidermis

It is the most superficial layer of the skin
And is composed epithelial cells.

Dermis

It is a tough and elastic skin layer. it lies
Beneath the epidermis.

Note on epidermis

The epidermis is the thin outer layer of the skin that is -
visible to the eye and works to provide protection to the body.
It does not contain any blood vessels and is, therefore,
dependent on the dermis, the layer of the skin underneath it, to

provide access to nutrients and dispose of waste.

Q2 ?

ANSWER:

There are many factors that influence the respiratory rate:

Age, gender, size, and weight, exercise, anxiety, pain, the effect of some medicines, smoking habits and excitement level are among them

The eight (8) environmental factors effect on respiratory rate:

- 1) oxygen content of the atmosphere.
- 2) Effect of temperature
- 3) Effect of light
- 4) Effect of water content
- 5) Effect of respirable material
- 6) Effect of carbon dioxide concentration.
- 7) protoplasmic condition
- 8) other factors.

Q 1?

ANSWER:

HEMATOPOIESIS:

Hematopoiesis is the process by which immature precursor cells develop into mature blood cells. The currently accepted theory on this process works called the monophyletic theory which simply means that a single type of stem cell gives rise to all the mature blood cells in the body.

Hematopoiesis:

