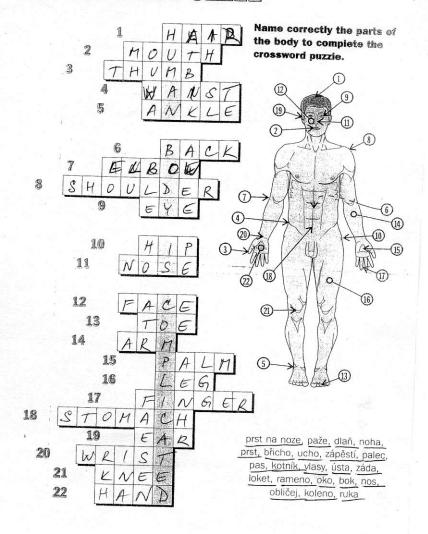
miscellaneous

CROSWORD PUZZLE



HUMAN BODY - CARDIOVASCULAR SYSTEM (CS)

CS consists of the heart and the vessels.

The heart is a muscular organ situated in the mediastinum. It is divided into 4 chambers, 2 on the right and 2 on the left. The upper chambers are called atria, the lower ones ventricles. The function of the heart is to pump blood throughout the body via the vessels.

There are 3 types of vessels:

- 1) Arteries they transport blood from the heart, the largest is aorta
- 2) Capillaries they receive blood from the arterioles
- 3) Veins they carry blood back to the heart, the largest is vena cava

The blood has many important functions, for example:

- a) Transportation of oxygen from the lungs to the cells and carbon dioxide from the tissues to the lungs
- b) Distribution of hormones
- c) Transportation of nutrients in the body

The section of medicine dealing with blood is called haematology.

The blood is composed of plasma and blood cells: erythrocytes, leukocytes and thrombocytes. The most common diseases of blood are anemia and leukemia.

We have 4 blood groups: A, B, AB and O. They are important in blood transfusion.

The human body

Cells are the smallest parts of the body. A typical cell consists of a thick fluid called cytoplasm, which contains a nucleus and is surrounded by a plasma.

The cells are arranged into groups called tissues.

Epithelial tissue- forms a lining in or on the body- the respiratory tract, the alimentary tract, the skin. Epithelium protects the body's surface.

Connective tissue supports the body and holds it together.

Muscular tissue produces movement- skeletal muscles, smooth muscles, cardiac muscle. Nervous tissue carries electrical signals.

Organ is a structure made of two or more tissues that carries out a particular range of tasks. (The eyes, lungs, kidneys, skin, stomach, heart)

Body system is a collection of organs that work together to perform specific tasks. (Integumentary system, Musculoskeletal system, Nervous system, Endocrine system, Circulatory system, Immune system, Respiratory system, Digestive system, Urinary system, Reproductive system, Lymphatic system)

Regions of the body

The head is the part of the body that houses the brain. It is protected by the skull. The face is made up of the forehead, cheeks, chin, eyes, ears, nose, mouth with teeth and tongue. The head is held by bones and muscles in **the neck**.

The trunk is the central part of the body that houses the heart, lungs, digestive system. The thorax, or chest, forms the upper part of the trunk and the abdomen forms the lower part of the trunk.

An arm contains 30 bones- the upper arm, the forearm, the hand. There are many joints (the shoulder, the elbow, the wrist)

A leg contains 30 bones and it is divided into the upper leg-thigh, the lower leg –calf, shin and the foot. The joints include the hip, the knee, the ankle.

A cavity is a closed chamber inside the body. The cranial cavity contains the brain, the thoracic cavity contains the heart and lungs. The abdominal cavity contains most of the digestive system. The spinal cavity contains the spinal cord and the pelvic cavity contains some internal organs.

pelvis - panes

The cel

carbohydrates and nucleid acids and have three parts: cytoplasm, the call membrane and the nucleus, made of protoplasm, a watery substance that consists of proteins, The smallest and most basic unit of life is called the cell. Cells are

tissues: epithelium, connective tissue, muscle tissue and nerve tissue. through the cell membrane and metabolism. Groups of similar cells form All the cells have three functions: reproduction, movement of fluid

protection. Epithelium contains no nerve or blood vesels and its main function is

between body parts. enable contractions (movements). Nerve tissue is composed of cells that transmit electrical impulses in the body, which provide communication Connective tissue supports and shapes the body and muscle tissues

A body system consists of a group of organs that form different

- movement in the walls of the tracts and organs. The musculoskeletal system, composed of the skeletal system ments. Involuntary (or smooth) muscles provide only mechanical in the head and they are capable of rapid and complicated moveversely striped) muscles are found in the extremities, in the trunk and voluntary and involuntary muscles. Most of the voluntary (or transby contraction and extension of muscles. We distinguish between which provide a framework for the body and protects vital organs. It muscle system. The purpose of this system is a movement caused consists of bones and joints and its functions are connected with the
- vessels: arteries, capillaries and veins. The circulatory system - it is the heart and a network of blood
- mach, small intestine, large intestine and the anus. The digestive system - the mouth, oropharynx, oesophagus, sto-
- and the lungs. The respiratory system - the nose, nasopharynx, trachea, bronchi
- The urinary system the kidneys, ureters, bladder and the urethra.
- The nervous system the brain, spinal cord, peripheral nerves, autonomic nerves.
- 8 The endocrine system - it consists of seven glands and its function is to produce hormones.
- ovaries, Fallopian tubes, uterus and the vagina. epididymis, seminal vesicles and the prostate; and the female's: the The reproductive system which is divided into the male's: the testes,
- The integumentary system which protects the body against pathoand the lymph nodes genic organisms and injury and consists of the skin, lymph channels

chromosomes important for the hereditary factors. They are made up of ribonucleic acid known as RNA and deoxyribonucleic acid, or DNA. The nucleus is resposible for the cell reproduction and contains 48

Organs of the body are positioned within spaces called **cavities**. The skull surrounds the **cranial cavity** that contains the brain. The **spinal** system and next the pelvic cavity where we can find organs of the cavity is a muscle organ called the diaphragm. Below the diaphragm reproductive and urinary systems there are the abdominal cavity which contains organs of the digestive cavity contains the heart, bronchial tubes and the lungs. The floor of this cavity formed by the vertebrae contains the spinal cord. The thoracic

trunk and the extremities The human body itself consists of three major areas: the head, the

contains the brain and its membranesand is covered by the hair. The The mouth has two lips and contains the tongue and the teeth. face is made up of the forehead, eyes, cheeks, nose, ears and the chin The head consists of the cranium and the face. The cranium

the cervical vertebrae, the larynx, the pharynx and important vessels and The head and the trunk are joined together at the neck which contains

abdomen and the pelvis. Each vertebra has a spinal canal through which nipples and, in women, two breasts. the spinal cord runs. The chest contains the oesophagus, the trachea, the heart, the lungs and the great vessels. On the chest there are two The trunk is made up of the vertebral column, the chest, the

forearm, wrist and the hand with a thumb and four fingers The upper limb is made up of the shoulder, upper arm, elbow

knee, lower leg with the calf and the shin, the ankle and the foot with five toes. Fingers and toes are called the digits. The lower limb is composed of the pelvic girdle, the hip, tigh

bones are held together by the ligaments. meet is a joint which contains an oily substance called synovia. The are described as long, short, flat or irregular. The point where two bones various shapes and sizes. They are made up of hard osseous tissue and The skeleton of an adult consists of more than 200 bones of

