**JETS QUIZ 2012 JUNIOR BIOLOGY**

1. **What name is given to the process by which plants lose water to the atmosphere in the form of water vapour?**

**ANS: Transpiration**

1. **The sharp needle- like structure on the body of an animal or plant is called\_\_\_\_\_\_\_**

**ANS: Spine**

1. **What name is given to a plant or animal which results from crossing two different plant or animal varieties?**

**ANS: Hybrid**

1. **Name the young of the goat.**

**ANS: Kid**

1. **State the large gap between the canines and premolars in the lower jaw of some animals.**

**ANS: Diastema**

1. **Which set of colours of the spectrum does chlorophyll absorb the most?**

**ANS: Red – Orange and blue - violet**

1. **Name the enzyme in human saliva…..**

**ANS: Salivary Amylase**

1. **Name the hormone produced by the testes……**

**ANS: Testosterone**

1. **What is the hydrostatic skeleton?**

**ANS: It is a skeleton formed by internal watery fluids contained within confined spaces in the body**

1. **What is the scientific name of human beings**

**ANS: Homo sapiens**

1. **Which phylum does a cockroach belong?**

**ANS: Arthropoda**

1. **Name two organs that form the Central Nervous system.**

**ANS: Brain and spinal cord**

1. **Name the pigment which gives the skin of humans its colour**

**ANS: Melanin**

1. **The position of a gene on a chromosome is called\_\_\_\_\_\_\_\_\_**

**ANS: Gene locus**

1. **What is the name of a nerve which connects the eye to the brain?**

**ANS: Optic nerve**

1. **Name the two roots which the neurone takes up in the spinal cord.**

**ANS: Dorsal root and Ventral Root.**

1. **Name a membrane bound cell organelle which is refered to as a ‘power house’ .**

**ANS: Mitochondria**

1. **What name is given to a blood vessel that leads blood from the artery to the vein**

**ANS: Capillary.**

1. **Name the component of blood that is responsible for blood clotting**

**ANS: Blood platelets**

1. **Which blood vessel transports blood from the liver to the vena cava?**

**ANS: Hepatic vein.**

1. **Name the membrane which surrounds the cell sap in a plant cell.**

**ANS: Tonoplast**

1. **When a plant has small yellowish leaves, what element does it lack?**

**ANS: Nitrogen**

1. **What process reduces the percentage of carbon dioxide in the atmosphere?**

**ANS: Photosynthesis**

1. **What is the role of sunlight in photosynthesis?**

**ANS: To split water into oxygen and hydrogen.**

1. **What name is given to the first shoot that emerges from the seed?**

**ANS: plumule**

1. **Name the process by which the green plants manufacture its own food.**

**ANS: Photosynthesis**

1. **Which part of the eye contains the light sensitive rods and cones?**

**ANS: Retina**

1. **What instrument is used to measure root pressure**

**ANS: Manometer**

1. **What name is given to the direct flow of sap from the injured part of the plant body?**

**ANS: Bleeding**

1. **What do you call the amount of air that can be exchanged during normal breathing in and out?**

**ANS: Vital capacity**

* 1. What name is given to the process by which plants lose water in form of droplets ?

Solution : Gutation

* 1. In a human body blood flows from lungs to the heart , from the heart to the rest of the the body and back to the heart . This system of blood flow is called ---------

Solution: Double circulation

* 1. Name one organelle found in the cell whre respiration takes place

Solution: Mitochondria

* 1. What term is used to describe an organism made up of more than one cell?

Solution: Multicellular organism

* 1. What name is given to the largest artery in a mammal ?

Solution: Aorta

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* 1. Name two phases of photosynthesis

Solution: Light dependent and Light independent

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Solution: Cell wall

* 1. Name the part of a plant cell which is fully permeable

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Solution: Light energy ( Reject respiration )

* 1. What do we call the pregnancy which takes place in the fallopian tube?

Solution : Ectopic pregnancy.

* 1. A thousand chain of genes are called

Solution: Chromosomes

* 1. In many cells , the structure thst controls the cell activities is the --------

Solution: Nucleus

* 1. An animal whose body temperature is controlled from within is calles----

Solution: Endotherm

* 1. Diseases caused by pathogens are generally called -----------

Solution: Infectious Diseases

* 1. What name is given to the amount of air that is breathed in and out in normal unforced breathing ?

Solution: Tidal volume

* 1. What name is given to the loosely packed cells on the plant stem where gases enter and leave the plant?

Solution: Lenticels

* 1. The movement of manufactured food substances from site of synthesis to sink sites within the plant is known as ------

Translocation

* 1. Name the cells found in the respiratory passage that secrete mucus

Solution: Goblet Mucus

* 1. What do we call the combination of cells such as nucleus , cytoplasm and cell membrane

Solution: Protoplasm

* 1. The last molar at the back of the mouth are referred to as -------

Solution: Wisdom teeth

* 1. The Contamination of the environment by industrial waste wastes pesticides is called---------

Solution : Pollution

* 1. What do we call the chemical reaction that occur in a living cell?

Solution : Metabolism

26.What do we call specific area occupied by an organism in an environment-----------------

Solution: Habitat

* 1. The measure of the acidity or alkalinity of the substance is called

P H

27 The type and arrangement of teeth in animals is called ---------

Solution: Dentition

* 1. Names the nutrient which contain the elements , carbohydrates hydrogen, and oxygen ------

Solution: Carbohydrates

* 1. What is a parennating organ?

Solution: This is an organ which enables a plant to survive harsh conditions of water.

* 1. Which of the following does not reproduce sexually ---------

1. Bat (b) Earth worms. ( c )Hyna (d) Amoeba
   1. The other name for the red blood cells is called---------

Solution: Erythrocytes

* 1. The contraction of the heart’s auricle and ventricles is called --------

Solution:: systole

* 1. Mammals feed on plants and other animals in order to obtain life and sustain life . This type of nutrition is called ------

Solution: Halozoic Nutrition

* 1. The branch of biology concerned with the classification of organisms is called --------

Solution: Taxonomy

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Solution: Hybrid

37..What is the botanical name for maize?

Solution: Zea mays

What collective term is given the following terms: Land, Labour and Capital, Entrepreneur----------

Solution: Factors of production

1. Primary producers or simply producers are also referred to as…………

**ANS: Autotrophs**

1. The vacuole is surrounded by a membrane called………..

**ANS: Tonoplast**

1. After fertilization in plants, the mature ovary becomes………..

**ANS: Fruit**

1. Name the structure in the respiratory system of man where sound is produced.

**ANS: Larynx (voice box or Adams apple)**

1. What is the other name for a knee cap?

**ANS: Patella**

1. What is the name given to the part of the brain which controls vital involuntary activities like heart beat, blood pressure etc?

**ANS: Medulla oblongata**

1. What is meant by the term gestation period?

**ANS: Period between fertilization and delivery**

1. What component of blood is responsible for blood clotting?

**ANS: Blood platelets**

1. Apart from hearing, what is the other function of the ear?

**ANS: Balance**

1. Interlinked food chains are called………………

**ANS: Food web**

1. What is the colour of the reagent used to test for starch? One attempt only.

**ANS: Brown**

1. The tiny hole through which a pollen tube enters an ovule is called………

**ANS: Micropyle**

1. What do we call a process by which a species evolve into a number of different species, each occupying a new envirolment?

**ANS: Adaptive radiation**

1. The total number of bones in the human vertebral column (back bone) is………

**ANS: 33**

1. Name the point on the retina where the clearest image is formed.

**ANS: Yellow spot or Fovea**

1. What name is given to a thin transparent membrane in front of the eye

**ANS: Conjuctiva**

1. State the percentage composition of carbon dioxide in expired air.

**ANS: 4%**

1. Phloem and Xylem are collectively called………

**ANS: Vascular bundle**

1. The structure which attaches muscles to bones is called……….

**ANS: Tendon**

1. Name the twisted albumen in the bird’s egg.

**ANS: Chalaza**

1. The instrument used to measure the rate of water uptake or the rate of transpiration is called…….

**ANS: Potometer**

1. Name the coloured part of the eye.

**ANS: Iris**

1. In which organelle does photosynthesis occur? One attempt only.

**ANS: Chloroplast**

1. What do we call a membrane-bound structure of a cell?

**ANS: Organelle**

1. What is the approximate size of a structure that can be observed under a light microscope?

**ANS: 0.2micrometer**

1. Name the white slippery substance found at the end of bones at a joint.

**ANS: Cartilage**

1. Name the space between teeth in herbivores.

**ANS: Diastema**

1. The unit of inheritance is called………….

**ANS: Gene**

1. State the role that light energy plays during photosynthesis.

**ANS: To split water molecules into H2 and O2 (In Photolysis)**

1. What acid is produced in the muscles when oxygen is insufficient?

**ANS: Lactic acid**

1. Name the structure that stores bile.

**ANS: Gall bladder**

1. A chemical substance secreted into the blood which alters the action of its target organ is called………………………

**ANS: Hormone**

1. Name an organism which helps in the spreading of diseases.

**ANS: Vector.**

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1. -------- is the word used to describe all the chemical processes that take place in living organisms/things

Answer: Metabolism

1. In what part of the body is waste filtered from the blood?

Answer: Kidney

1. The spreading of seeds from as far away as possible from the parent plant is known as -----------

Answer: Dispersal

1. In an experiment to determine the conditions necessary for germination , one of the test tubes had seeds placed under cooled boiled water on top of which was put a layer of oil . why was the water boiled?

Answer: To remove oxygen from the water

1. Food is removed through the digestive system by muscular contraction called---------

Answer: peristalsis

1. The biceps and triceps are examples of ------------

Answer antagonistic muscles

1. The major function of carbohydrate is -------

Answer : to provide energy

45 Monosaccharide, disaccharides and polysaccharides are examples of -------Answer: Carbohydrate

1. If the eye piece of a microscopic magnifies by 10, and the objective lens X 4 calculate the total magnification of the microscope------

Answer: X 40

GENERAL QUESTIONS

What collective term is given the following terms: Land, Labour and Capital, Entrepreneur----------

Solution: Factors of production