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Cell as Basic Units Test

CHOOSE ONLY A, B, C OR D

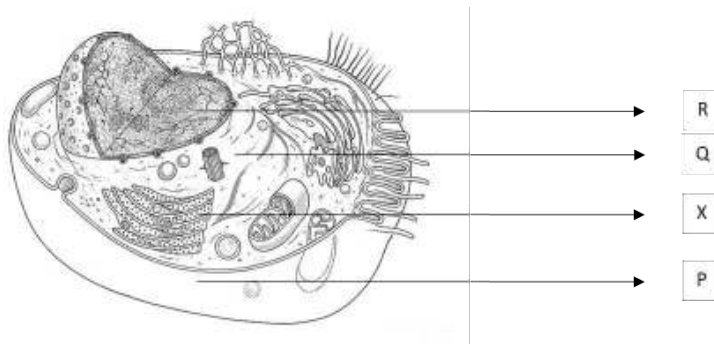
QUESTION 1:

1.1) the smallest living units out of which your body and the bodies of other organisms is build up:

- A.) Stem cells.
- B.) Cells.
- C.) Mitochondrion.
- D.) Life.

(2)

1.2) A part of the sketch below is filled with sugars and salts. Which caption represents this part?



- A.) X
- B.) Q
- C.) R
- D.) P

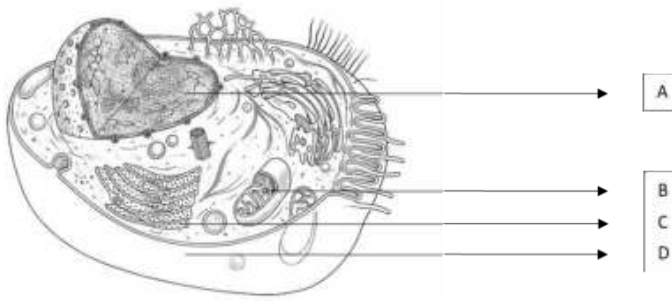
(2)

1.3) Organisms that consists of only one cell are called:

- A.) Macroscopic Organisms.
- B.) Unicellular Organisms.
- C.) Animal cell.
- D.) None of the above.

(2)

1.4) The part where cell respiration takes place is:



- A.) A.

- B.) B.
C.) C.
D.) D (2)

1.5) Unspecialized cells are:

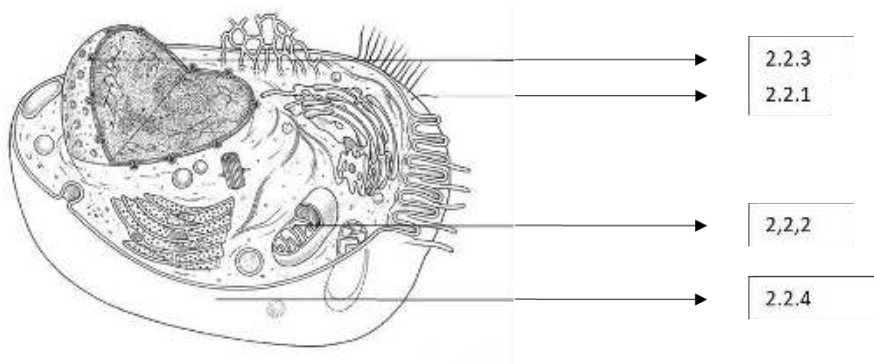
- A.) Unspecialized cells.
B.) Stem cells.
C.) Sugar cells.
D.) Red blood cells. (2)

QUESTION 2:

2.1) Explain the function of the following organelles:

- 2.1.1) Cytoplasm
2.1.2) Mitochondrion.
2.1.3) Vacuole. (3)

2.2) Name the captions of the following plant cell.



(4)

QUESTION 3:

3.1) Explain in a paragraph what stem cells are and where they are found in the human body. (5)

Cell as Basic Units Memo

QUESTION 1:

- 1.1) B
- 1.2) B
- 1.3) B
- 1.4) B
- 1.1) B

QUESTION 2:

- 2.1)
 - 2.1.1) Fills the inside of the cell. Where the chemical reaction of the cell takes place.
 - 2.1.2) All the cell respiration takes place here. Change the sugars into energy for processes.
 - 2.1.3) Contains the cell sap. (3)
- 2.2)
 - 2.2.1) Core
 - 2.2.2) Mitochondrion
 - 2.2.3) Cell membrane
 - 2.2.4) Cell wall (4)

QUESTION 3:

- 3.1) Stem cells are a group of unspecialized cells that can replicate over and over again to produce new stem cells. Stem cells are present in the human embryo when it was still in early development. These cells are also found in different places such as teeth, hair etc. (5)

The Digestive System Test

CHOOSE ONLY A, B, C OR D

QUESTION 1;

1.1) Which nutrients can be regarded as builders of the body?

- A.) Fats
- B.) Proteins.
- C.) Glucose.
- D.) Vitamins. (2)

1.2) Which part absorbs water from waste products?



1.3) The other type of digestion that occurs in our body, except mechanical digestion, is know as:

- A.) Chemical digestion
- B.) Gastric digestion.
- C.) Small intestine digestion.
- D.) None of the above. (2)

1.4) Too much fat stored in the body, is called...?

- A.) Overweight.
- B.) Chubbiness
- C.) Insulin shortage.
- D.) Obesity. (2)

1.5) The part in the digestive system where the food is transported to the stomach by mechanical motion.

- A.) Mouth.
- B.) Anus.
- C.) Esophagus
- D.) Colon.

(2)

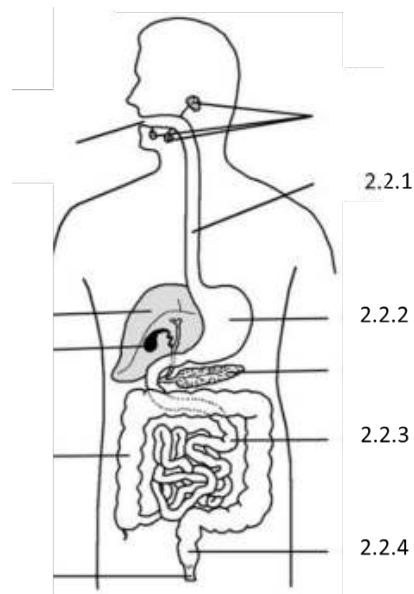
QUESTION 2:

2.1) What is the motion called when food moves down your esophagus?

(1)

2.2) Label the following diagram and explain what happens at each part

(4x2)



(For fun, you can quickly label the diagram)

The Digestive System Test - MEMO

QUESTION 1:

- 1.1) B
- 1.2) C
- 1.3) A
- 1.4) D
- 1.5) C

(5 x 2 = 10)

QUESTION 2:

2.1) Peristaltic Movement

(1)

2.2.1) **Esophagus:** Food moves down by means of peristaltic movement in the stomach

2.2.2) **Stomach:** To digest, food is mixed with stomach acids.

2.2.3) **Colon:** Only waste products are left (of the processed food), the body absorbs most of the water from the waste products.

2.2.4) **Rectum:** The last part where digestion takes place while it is moving to the anus.

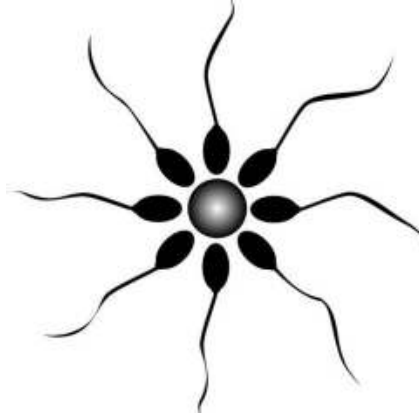
(4x2)

Human Reproduction Test

CHOOSE ONLY A, B, C OR D

QUESTION 1:

1.1) This process is called...



- A.) Fertilization.
- B.) Ovulation.
- C.) Menstruation.
- D.) None of the above

(2)

1.2) The correct word for the developed embryo in the woman's womb:

- A.) Fetus.
- B.) Ovary.
- C.) Implantation.
- D.) None of the above.

(2)

1.3) The female gender cell:

- A.) Sperm cell.
- B.) Egg cells.
- C.) Ovum.
- D.) None of the above.

(2)

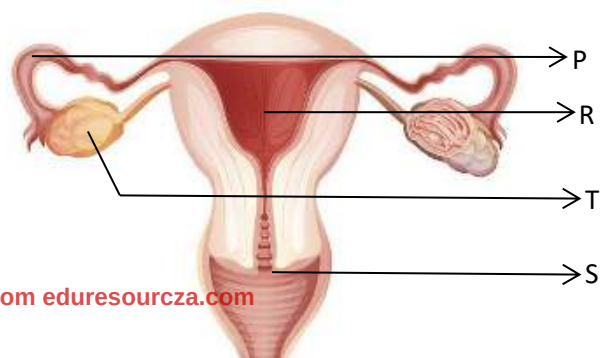
1.4) Which gland secretes hormones during puberty?

- A.) Fallopian Tube.
- B.) Pituitary Gland.
- C.) Ovary.
- D.) Estrogen.

(2)

1.5) Which part indicates where fertilization takes place?

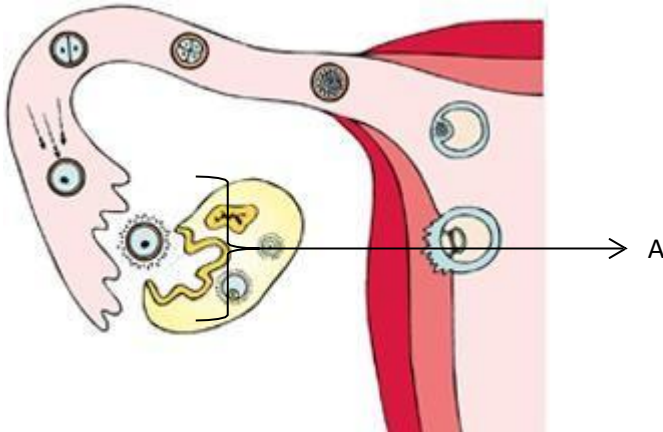
- A.) P
- B.) R
- C.) T
- D.) S



(2)

QUESTION 2:

- 2.1) Name the hormone that a man secretes.
- 2.2) Tabulate the differences in sexual features during puberty of boys and girls. (4)
- 2.3) Consider the following sketch and answer the following questions :



- 2.3.1) Name process A. (1)
- 2.4) During pregnancy waste is transported by a certain vein. What is the name of the vein and where is the waste transported to? (2)

QUESTION 3:

- 3.1) Discuss the ways of preventing pregnancy. (7)

Human Reproduction Test Memorandum

QUESTION 1:

- 1.1) A.
1.2) A.
1.3) C.
1.4) B.
1.5) A.

QUESTION 2:

2.1) Testosterone. (1)

2.2)

Girls	Boys
Breasts enlarge	Shoulders get broader
Menstruation starts	Facial hair starts growing

(4)

2.3)

2.3.1) Ovulation

2.4) Artery and is transported to the mother's body. (1)

QUESTION 3:

3.1) Birth can be restricted by applying the following:

- A man can use a condom which will prevent the sperm cell of penetrating the woman and fertilizing the egg cell. It is the most trustworthy birth control for a man.
- The woman can drink an oral contraceptive daily to prevent pregnancy. Ovulation is stopped by the pill.
- A woman can use a cover over the cervix; this prevents the sperm cell from reaching the womb.
- The man and woman can abstain from sex when ovulation is taking place.

Circulatory & Respiratory System Test

CHOOSE ONLY A, B, C OF D

QUESTION 1:

1.1) When oxygen in the mitochondrion reacts the process is called:

- A.) Diffusion
- B.) Gas Exchange
- C.) Respiration
- D.) None of the above. (2)

1.2) Oxygen-rich blood in the body:

- A.) Oxygenated blood.
- B.) Oxygen blood.
- C.) Capillaries
- D.) none of the above. (2)

1.3) What is the correct option for the movement of a human breast when inhaled?

- A.) Ribs diminish and diaphragm flatten.
- B.) Ribs diminish and diaphragm enlarge.
- C.) Ribs enlarge and Diaphragm flatten.
- D.) None of the above. (2)

1.4) Oxygens that is absorbed by the lungs goes to:

- A.) The blood then the body.
- B.) The heart
- C.) The heart and brain.
- D.) None of the above. (2)

1.5) Which gas is formed as a byproduct during respiration?

- A.) Oxygen.
- B.) Methane.
- C.) Ammoniac.
- D.) Carbon Dioxide (2)



QUESTION 2:

- 2.1) All veins are transporting deoxygenated blood except one vein, name this vein (1)
- 2.2) Describe what happens during exhalation. Name the following in the description: (3)
- *Muscle reaction*
 - *Breast*
 - *Diaphragm*
- 2.3) Name the two gases to be transported to – and from the lungs. (2)

Circulatory & Respiratory System Test

MEMO

QUESTION 1:

- 1.1) C
- 1.2) A
- 1.3) C
- 1.4) A
- 1.5) D

QUESTION 2:

- 2.1) Pulmonary veins. (1)
- 2.2) During exhalation, the muscles relax in your chest and your diaphragm moves upwards. The space in your chest becomes smaller and air moves through your nose or mouth from your body. (3)
- 2.3) Oxygen moves from lungs to blood. Carbon dioxide moves from the blood to the lungs. (2)