

Q.P. SET CODE
A

MT - W

Seat No.

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2017 ___ ___ 1100 - MT - W - SCIENCE & TECHNOLOGY - II (72) - SET - A (E)

Time : 2 Hours**(Pages 3)****Max. Marks : 40**

Note :

- (i) Draw well-labelled diagrams wherever necessary.
- (ii) All questions are compulsory.
- (iii) Students should write the answers of questions in sequence.

Q.1. (A) Answer the following sub-questions :

- (1) Fill in the blanks and rewrite the complete statements :** **1**
..... is the largest gland in the body.

- (2) Find the odd man out :** **1**
Vagina, Uterus, Vas deferens, Ovary

- (3) State whether the following statements are true or false and if false, write the correct statement :** **1**
Aquatic animals breathe at a slower rate than the terrestrial animals.

- (4) Complete the analogy :** **1**
rr : Homozygous :: Rr :

- (5) Name the following :** **1**
Two metals which react with dil. HNO₃ to evolve hydrogen gas.

Q.1. (B) Rewrite the following statements by selecting the correct options : **5**

- (1) Which gas is liberated when acetic acid reacts with sodium metal ?
 - (a) H₂
 - (b) O₂
 - (c) CO₂
 - (d) NH₃

- (2) In Hydra the type of reproduction is
(a) Binary fission (b) Budding
(c) Multiple fission (d) None of these
- (3) A solution of $\text{Al}_2(\text{SO}_4)_3$ in water is not clear. It is due to
(a) impurities present in water.
(b) hydrolysis of $\text{Al}_2(\text{SO}_4)_3$ in water.
(c) impurities present in $\text{Al}_2(\text{SO}_4)_3$.
(d) none of these
- (4) Fermentation is a type of
(a) aerobic respiration (b) anaerobic respiration
(c) exothermic reaction (d) none of these
- (5) Acetic acid
(a) turns red litmus blue (b) is pale yellow in colour
(c) is red in colour (d) is insoluble in water

Q.2. Answer the following subquestions : (any five) 10

- (1) Differentiate between Voluntary and Involuntary movements.
(2) Write a note on Connecting links.
(3) Draw a well labelled diagram of Longitudinal section of flower.
(4) Give scientific reason :
Hormones secreted by the endocrine glands are present everywhere in the body.
(5) Write any two measures to conserve water.
(6) What are analogous organs? Give example.

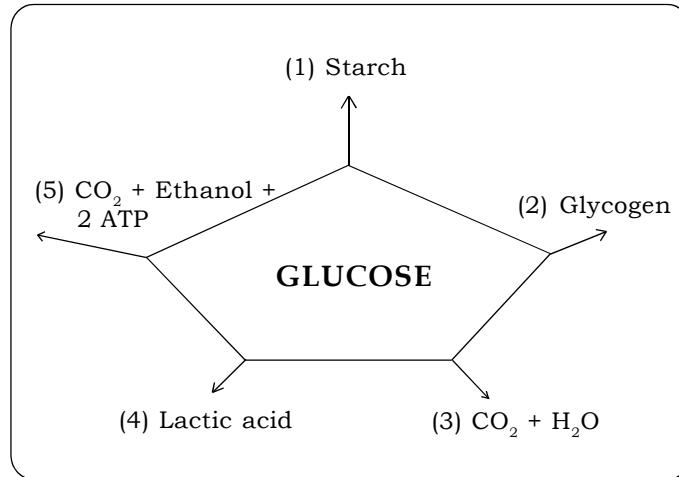
Q.3. Answer the following subquestions : (any five) 15

- (1) Sudha dipped a copper coin in a solution of silver nitrate. After some time she saw the silver shine on the coin. Why? Give the balanced chemical equation for the same. Name the type of reaction.
(2) How is sex determined in human beings?
(3) Describe Reflex action.
(4) What is the three 'R mantra'? Write its significance.
(5) Explain the extraction of copper.
(6) Describe Multiple fission in amoeba.

Q.4. Answer the following subquestion : (any one)

5

- (1) Given below are the end products of different reactions involving glucose.



Write the reaction number in front of the following:

- (a) Anaerobic reaction
- (b) Reaction in human muscles
- (c) Aerobic respiration
- (d) Reaction in plant cell
- (e) Reaction in Liver
- (2) Define Homologous series. State the general characteristics of homologous series.

Best Of Luck 🍀