

# N 767

Seat No.

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2016 III 15 1100 – N 767 – SCIENCE AND TECHNOLOGY (72) – PAPER II (E)

Time : 2 Hours

(Pages 5)

Max. Marks : 40

**Note :—** (i) Draw well-labelled diagrams wherever necessary.

(ii) All questions are compulsory.

(iii) Students should write the questions in sequence.

1. (A) Answer the following sub-questions : 5

(1) Fill in the blank and rewrite the completed statement : 1

..... is the largest gland in the body.

(2) Find the odd one out and write it : 1

vagina, uterus, vas deferens, ovary

(3) State whether the statement is true or false : 1

Aquatic animals breathe at a slower rate than the terrestrial animals.

(4) Considering the relationship in the first pair, complete the second pair : 1

rr : Homozygous :: Rr : .....

(5) Name the following : 1

Main ore of aluminium.

P.T.O.

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

(1) ..... is liberated when acetic acid reacts with sodium metal.

(a) Hydrogen

(b) Chlorine

(c) Oxygen

(d) Nitrogen

(2) For binary fission, Amoeba requires ..... parent cells.

(a) Three

(b) Two

(c) One

(d) Zero

(3) A solution of  $\text{CuSO}_4$  in water is ..... in colour.

(a) Pink

(b) Blue

(c) Colourless

(d) Green

### 3/N 767

(4) Raisins are formed by drying grapes. The process that takes place during formation of raisins from grapes is .....

- (a) Absorption
- (b) Osmosis
- (c) Diffusion
- (d) Dehydration

(5) Ethanoic acid has a ..... odour.

- (a) rotten eggs
- (b) pungent
- (c) vinegar-like
- (d) mild

**2. Attempt any five of the following :**

**10**

- (1) Differentiate between voluntary and involuntary movements.
- (2) What is the peculiarity of the 'DNA' structure ?

**P.T.O.**

- (3) Draw a well-labelled diagram of longitudinal section of a flower.
- (4) Give scientific reason : Roots of plants grow away from light.
- (5) Write any *two* measures to conserve water.
- (6) What are fossils ?

**3. Attempt any *five* of the following :**

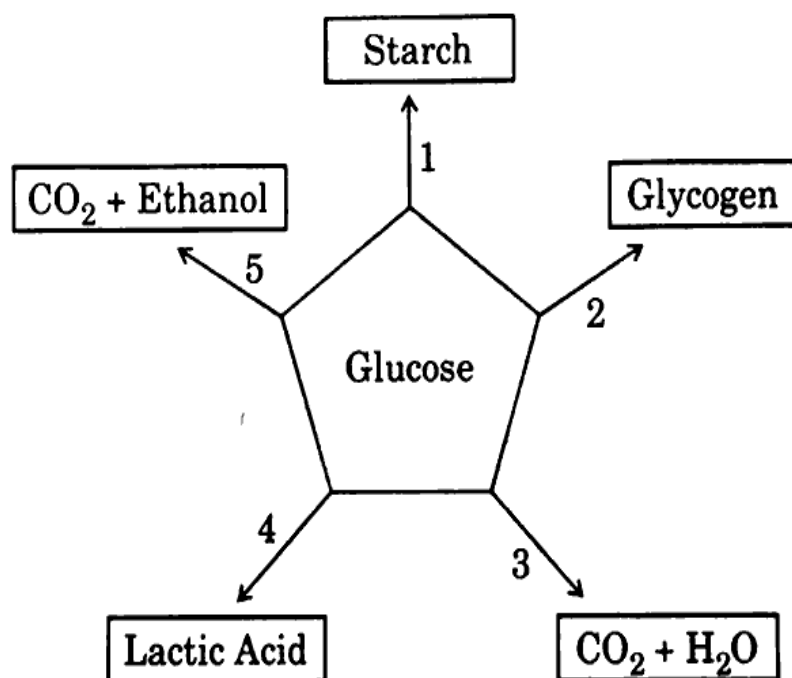
**15**

- (1) What is an alloy ? Give *two* examples with their chemical composition. <https://www.maharashtrastudy.com>
- (2) How is sex determined in human beings ?
- (3) State the different types of neurons. Explain their functions.
- (4) What is the '3R' mantra ? Write its significance.
- (5) Metal A has electronic configuration (2, 8, 1) and metal B has (2, 8, 8, 2). Which is more reactive ? Why ? Identify these metals.
- (6) Explain the disadvantages of a large family size.

4. Attempt any one of the following :

5

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



Write the reaction number in front of the following :

(1) Anaerobic reaction =

(2) Reaction in the human muscles =

(3) Aerobic respiration =

(4) Reaction in the plant cells =

(5) Reaction in the liver =

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- (2) What is a homologous series ? State any *four* characteristics of a homologous series.