

MT

2018 ____ 1100

Seat No.

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MT - SCIENCE & TECHNOLOGY -II (72) - SEMI PRELIM - II : PAPER - 3

Time : 2 Hours

(Pages 3)

Max. Marks : 40

Note :

- (i) All questions are compulsory.
- (ii) All questions carry equal marks.
- (iii) Draw neat and labelled diagrams wherever necessary.

Q.1. (A) Fill in the blanks : 3

- (1) In humans, sperm production occurs in the organ
- (2) The forest conserved in the name of God is called
- (3) Through the point of view of evolution, is considered as connecting link between non-chordates and chordates.

Q.1. (B) Match the columns: 2

Column 'A'	Column 'B'
(1) Endangered species	(a) Musk deer
(2) Rare species	(b) Gir Lion
(3) Vulnerable species	(c) Lion-tailed monkey
(4) Indeterminate species	(d) Giant squirrel

Q.1. (C) Choose the correct alternative and rewrite the statement : 5

- (1) Information about protein synthesis is stored in the
 - (a) mitochondria
 - (b) DNA
 - (c) RNA
 - (d) ribosomes

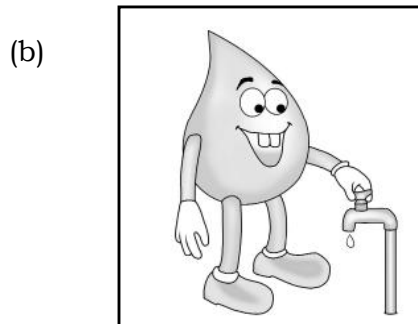
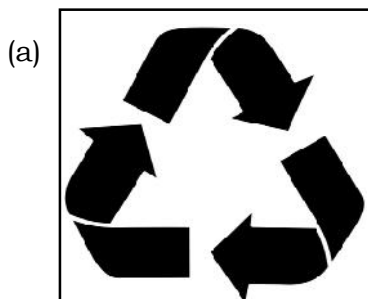
- (2) Number of chromosomes in diploid cell
 - (a) n
 - (b) $3n$
 - (c) $\frac{n}{2}$
 - (d) $2n$

- (3) has been established in 2010 for effective implementation of environment related laws.
(a) Forest Conservation Act
(b) Wild life protection Act
(c) Environmental conservation Act
(d) Indian Forest Act
- (4) Which of the following animals can regenerate it's broken body part?
(a) Cockroach (b) Frog
(c) Sparrow (d) Star fish
- (5) In, the fertilization is external.
(a) Frog (b) Bat
(c) Snake (d) Parrot

Q.2. Answer the following questions : (Any Five)

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- (1) Give reason : Geographical and reproductive isolation leads to speciation.
- (2) Explain glycolysis in detail.
- (3) Distinguish between: Asexual reproduction and Sexual reproduction.
- (4) Draw a neat and labelled diagram for the Human male reproductive system.
- (5) What are the meanings of following symbols? Write your role accordingly?



- (6) Write the characteristic of Phylum Coelenterata (Cnidaria).

Q.3. Answer the following questions : (Any Five)

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- (1) Why has it been said that only insects directly compete with humans for food?
- (2) Describe Darwin's theory of natural selection.
- (3) What are lipids? What is their role in our body?
- (4) Explain the process of spore formation.
- (5) Describe Chipko Movement of Bishnoi.
- (6) How do butterflies contribute to environmental balance?

Q.4. Answer the following questions : (Any One)

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- (1) Write the evolutionary history of modern man.
- (2) Describe Anaerobic respiration.

Best Of Luck 