

MT

2018 ___ 1100

Seat No.

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MT - SCIENCE & TECHNOLOGY -II (72) - SEMI PRELIM - I : 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) Chemically vinegar is 4%
- (2) Government of India has encouraged the for improving the productivity by launching NKM - 16.
- (3) The act is to curb the cyber crimes.

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

Column 'A'	Column 'B'
(1) Interferon	(a) Diabetes
(2) Factor VIII	(b) Dwarfness
(3) Somatostatin	(c) Viral Infection
(4) Interleukin	(d) Cancer
	(e) Hemophilia

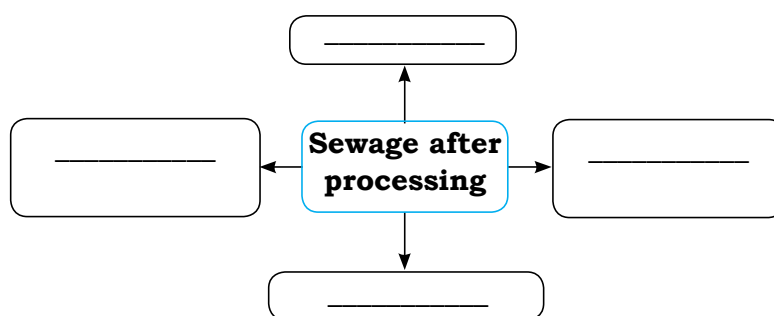
Q.1. (C) Choose the correct alternative and rewrite the statement : **5**

- (1) Milk is at the beginning to destroy unwanted microbes.
 - (a) heated
 - (b) cooled
 - (c) pasteurized
 - (d) powdered
- (2) Human insulin gene now is been inserted into the genome of
 - (a) horse
 - (b) cat
 - (c) bacteria
 - (d) virus

- (3) bacteria present in root nodules of leguminous plants help in nitrogen fixation.
 (a) Rhizobium (b) Azotobacter
 (c) Geobacter (d) Pseudomo
- (4) In 2014 there had been a huge in the village Malin.
 (a) Cyclone (b) Volcano eruption
 (c) Landslide (d) Bomb blast
- (5) In combustion of coal..... gas is released
 (a) H₂ (b) O₂ (c) NH₃ (d) CO₂

Q.2. Answer the following questions : (Any Five)**10**

- (1) Which different products can be produced with the help of microbes?
 (2) What are the benefits of mixing ethanol with petrol and diesel?
 (3) Complete the following conceptual picture.

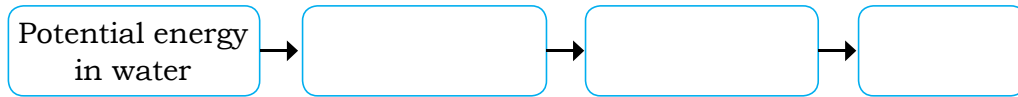


- (4) Write a note on benefits of biotechnology.
 (5) Write a note on Disaster Management Act - 2005.
 (6) Distinguish between : Conventional energy sources and Non-conventional energy sources.

Q.3. Answer the following questions : (Any Five)**15**

- (1) Write a note on microbial enzymes.
 (2) Write a note on Blue revolution.
 (3) Explain the formation of transgenic potatoes with the help of a diagram.
 (4) What will you do if child of your neighbour is addicted to tobacco chewing?

- (5) Write a note on Mock Drill.
- (6) Complete the following step by step energy conversion in hydroelectric power plant.



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

5

- (1) (A) What do you mean by antibiotic?
(B) Which precautions should be taken about their consumption?
- (2) What is the impact of biotechnology on agriculture and other related fields?

Best Of Luck 🍀