

# MT

2018 \_\_\_\_ 1100

Seat No. 

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## MT - SCIENCE & TECHNOLOGY -II (72) - SEMI PRELIM - I : PAPER - 2

**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) An enzyme ..... obtained from alimentary canal of cattle was traditionally used to produce cheese.
- (2) The disease related with the synthesis of insulin is .....
- (3) The disaster management act has been established in .....

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

Column 'A'	Column 'B'
(1) War	(a) Atmospheric disaster
(2) Volcano	(b) Biological disaster
(3) Cyclones	(c) Geological disaster
(4) Infectious virus	(d) Man-made disaster

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

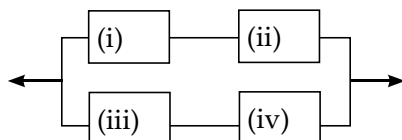
- (1) Very hard ..... cheese is formed after ripening for 12 - 18 months.
  - (a) mozzarella
  - (b) cheddar
  - (c) parmesan
  - (d) cottage
- (2) Stem cell preserved in sterile vials are kept in liquid nitrogen at ..... to .....

  - (a)  $-135^{\circ}\text{C}$  to  $-190^{\circ}\text{C}$
  - (b)  $-125^{\circ}\text{C}$  to  $-150^{\circ}\text{C}$
  - (c)  $135^{\circ}\text{C}$  to  $190^{\circ}\text{C}$
  - (d)  $133^{\circ}\text{C}$  to  $187^{\circ}\text{C}$

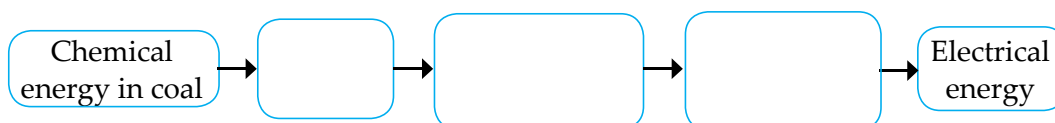
- (3) In Maharashtra ..... is in action through State Reserve Force.  
 (a) WHO (b) NDRF  
 (c) NCC (d) MCC
- (4) Tsunami is a ..... type of disaster.  
 (a) Biological (b) Man-made  
 (c) Geological (d) Plants
- (5) The photovoltaic cells convert ..... energy into electrical energy.  
 (a) mechanical (b) solar  
 (c) chemical (d) sound

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

- (1) Which different microbes are useful to us?  
 (2) How does the bread become spongy?  
 (3) How can the soil polluted by acid rain be made fertile again?  
 (4) Write a note on edible vaccine.  
 (5) Write a note on Salam Mumbai Foundation.  
 (6) In the diagram below, silicon solar cells with dimensions  $1\text{cm}^2$  are connected. Find the potential difference and electric current?

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

- (1) Write a note on yoghurt production.  
 (2) Write a note on genetically modified crops.  
 (3) Explain the importance of fruit processing in human life.  
 (4) What will you do and why if you are spending more time in internet mobile games, phone etc?  
 (5) What are the objectives of mock drill?  
 (6) Complete the following step by step Energy Conversion in thermal power plant.



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

**5**

- (1) Enlist the sources of various organic acids, the microbes used to produce them and their uses.
- (2) Explain the meaning of 'Vaccination'.

**Best Of Luck** 