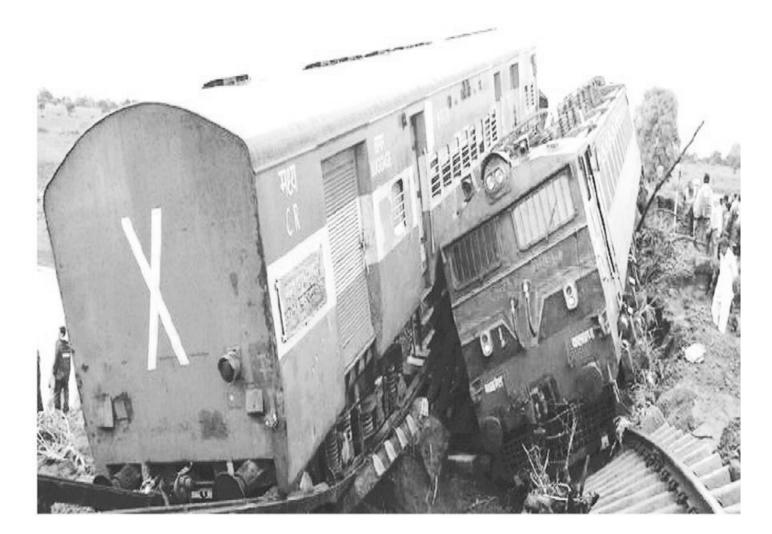
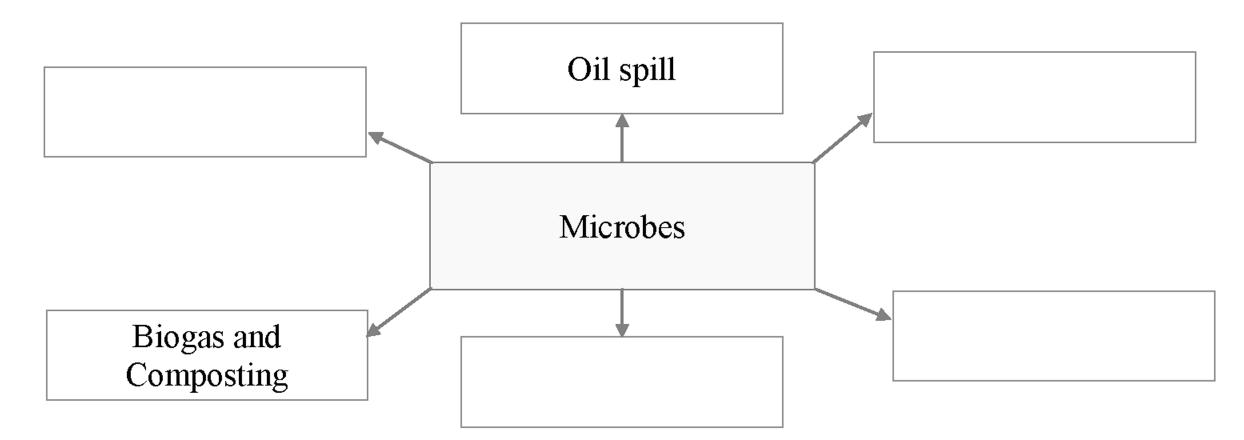
## **BOARD QUESTION PAPER: MARCH 2020 Science & Technology Part - 2**

Tim	e: 2 Hours Total Mark	: 40				
Notes i. ii. iii. iv. v.	All questions are compulsory. Use of calculator is not allowed. The numbers to the right of the questions indicate full marks. In case of MCQs [Q. No. 1(A)], only the first attempt will be evaluated and will be given credit. For every MCQ, the correct alternative (A), (B), (C) or (D) with sub-question number is to be written answer. For e.g. (i) (A), (ii) (B), (iii) (C).	as an				
vi. <b>Q.1.</b> i.	Scientifically correct, labelled diagrams should be drawn wherever necessary.  (A) Choose the correct option and write its number for the following questions:  Transfer of information from molecule of DNA to mRNA is called process.	[5]				
	(A) Transcription (B) Translation (C) Translocation (D) Mutation					
ii.	Body breaks up into several fragments and each fragment starts to live as a new individual. This is type of reproduction.					
	(A) Budding (B) Fragmentation (C) Regeneration (D) Binary fission					
iii.	Incomplete combustion of fuels leads to formation of  (A) Carbon monoxide (B) Carbon dioxide (C) Chlorofluorocarbon (D) Hydrogen sulphide					
iv.	The spindle fibres start appearing from stage of karyokinesis.  (A) Prophase (B) Metaphase (C) Anaphase (D) Telophase					
V.	Salts which can be used as supplement of calcium and iron are obtained from  (A) Carbonic acid  (B) Acetic acid  (C) Citric acid  (D) Gluconic acid					
<b>Q.1.</b> i.	(B) Solve the following questions: Find odd one out: Drying, Salting, Cooking, Soaking with sugar.	[5]				
ii.	Write the correct co-relation: Annelida: Earthworm :: Platyhelminthes:					
iii.	State whether True/False: Tobacco containing substances cannot cause cancer of mouth and lungs.					
iv.	Write function of testes.					
V.	I am connecting link between Reptilia and mammals. What is my name?					
Q.2. i. ii. iii.	(A) Give Scientific Reasons. (Any two) Indians should follow family planning for controlling the population. We feel exhausted after exercising. Hydroelectric energy, solar energy and wind energy are called renewable energies.					
Q.2.						
i.	Complete the following chart:  Effect of Radioactive Polution					

- ii. Distinguish between Aves and Mammalia.
- iii. By observing given picture, write any two effects of this disaster:

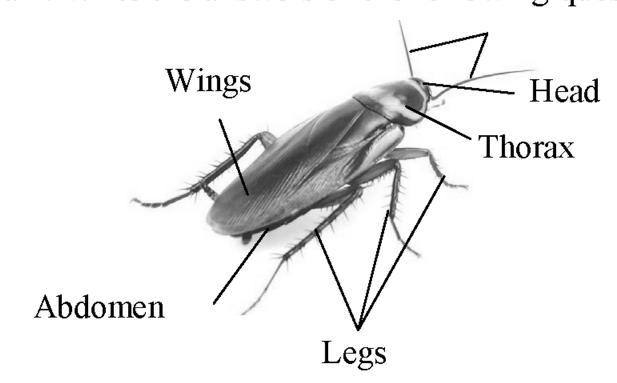


- iv. Explain four ways to minimize stress.
- v. Complete the following conceptual picture:



## Q.3. Solve the following questions (Any five):

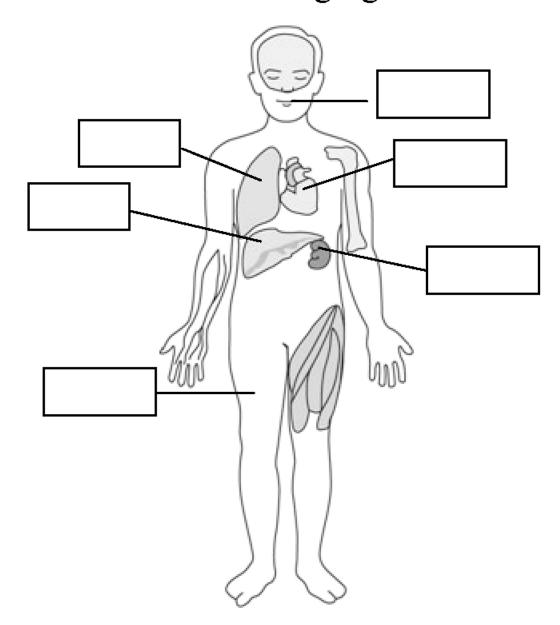
- i. Explain the importance of Anatomical evidences with examples.
- ii. What will you do? Why?
  - a. Child of your neighbor is addicted to tobacco chewing.
  - b. Your friend has developed the hobby of snapping selfies.
  - c. Your sister has become incommunicative. She prefers to remain alone.
- iii. Which precautions are necessary for proper decomposition of domestic waste?
- iv. Observe the following diagram. Write the answers of the following questions.



- a. To which phylum does the animal included in the diagram belong?
- b. What is the exoskeleton made up?
- c. What is the symmetry?
- v. Explain the following concepts in short:
  - a. Surrogacy
  - b. In Vitro Fertilization (IVF)
  - c. Sperm Bank

[15]

Label the body organization of human in the following figure: vi.



vii. Make a table based on forms of energy and corresponding devices:

	Forms of Energy	Devices
a.	Electric	
b.	Mechanical	Sewing machine, Bicycle
c.	Thermal	
d.		Solar cooker, Solar heater

	$\sim$	11	1	•	1
V111.	Comr	ilete tha	e naraoranh	1151110	proper words:

(Mechanical, <i>Rhizobium</i> , Aqua	tic, Toxic, $CO_2$ , N	itrogen, <i>Pseu</i>	ıdomonas, A	<i>moeba</i> , Bacte	eria, Hydroc	arbons)
Spilling of petroleum oil occu	irs in ocean due	to various re	easons. This	oil may pro	ove fatal and	d toxic to
organisms. It is not	easy to remove	the oil layer	from surfa	ce of water	by	_ method.
However, bacteria like	_ spp. and <i>Alcani</i>	vorax borkun	nensis have	the ability to	destroy the	pyridines
and other chemicals. Hence,	these	are used to	o clear the	oil spills,	These are	called as
hydrocarbonoclastic bacteria (l	HCB). HCB decor	mpose the	and	bring about t	the reaction	of carbon
with oxygen and wate	er is formed in this	s process.				

## Q.4. Solve the following questions (Any one):

**[5]** Attempts at various levels are performed for conserving environment. Which role would you like to perform. Give two actions each:

- Control Production Prevention b. a.
- Conservation d. Awareness
- ii. What is Biotechnology? a.
  - Give one use of Biotechnology. b.
  - Give one commercial use of Biotechnology. C.
  - Write two bacterial examples of biofertilizer. d.
  - Write two names of crops genetically developed. e.