Time	: 2 hours	3	Activi	ty Sheet-	- Mai	rch 2020		Mark	ks: 40
Note	e: (i)	All o	uestions	are con	npuls	sory.			
	(ii)	Use	of calcul	ator is n	ot al	lowed.			
	(iii)	The mark		to the r	ight (of the que	stion	ns indicate	full
	(iv)					1.(A)), or be given		ne first atte lit.	empt
	(v)	d - v answ	with suborer.	question	n nur			- a, b, c written a	
	(vi)	Scien	e.g., i. a ntifically on where	correc	t, lal		agrar	ns should	d be
Q.1.	(A) Ch	oose 1	the corr	ect opti	on.				[5]
i.	Transfe	r of i		on from	a m		f DN	A to mRN	NA is
	a. trai	nscrip	tion		b.	translati	on		
		ısloca			d.	mutation	n		
ii.	Body breaks up into several fragments and each fragment starts to live as a new individual. This is type of reproduction.								
	-	ding			b.	fragmen	ıtatic	n	
		enera	tion		d.	_			
iii.	Incomp	lete	combust	tion of	fue	els leads	to	formation	n of
	a. car	bon n	 nonoxide	;	b.	carbon o	dioxi	de	
	c. chl	oroflu	iorocarbo	on	d.	hydroge	n su	lphide	
iv.	The spindle fibres start appearing fromstage of karyokinesis.								
	a. pro	phase	;		b.	metapha	ase		
	c. ana	phase	÷		d.	telophas	se		

- 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) Answer the following questions.

[5]

Find the odd one out.

Drying, Salting, Cooking, Soaking with sugar

ii. Find out the correlation and write in one sentence.

Annelida: Earthworm: Platyhelminthes:

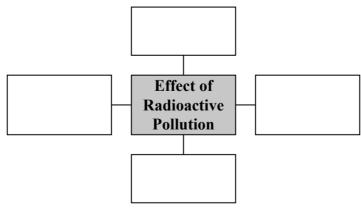
iii State whether True or False.

Tobacco-containing substances cannot cause cancer of mouth and lungs.

- iv. Write the functions of the testes.
- v. I am a connecting link between Reptilia and Mammals. What is my name?

Q.2. (A) Give scientific reasons. (Any two) [4]

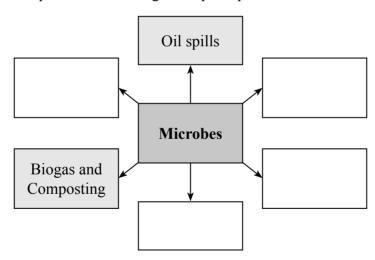
- i. Indians should follow family planning for controlling population.
- ii. We feel exhausted after exercising.
- iii. Hydroelectric energy, solar energy, and wind energy are called renewable energies.
- (B) Answer the following questions. (Any three) [6]
- i. Complete the following chart.



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



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

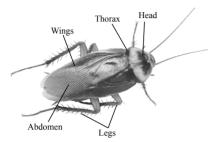


Q.3. Answer the following questions. (Any five)

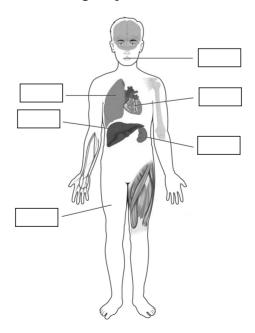
[15]

- i. Explain the importance of anatomical evidences with examples.
- ii. What will you do? Why?
 - a. Child of your neighbour 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 given 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 of?
- c. What is the symmetry?
- v. Explain the following concepts in short.
 - a. Surrogacy
 - b. In Vitro Fertilization (IVF)
 - c. Sperm Bank
- vi. Body organization of human is shown in the following figure. Label the different organs present in the human body.



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

Sr. No.	Forms of Energy	Devices			
1.	Electric				
2.	Mechanical	Sewing machine, Bicycle			
3.	Thermal				
4.		Solar cooker, Solar heater			

viii.	(me	mplete the paragrap echanical, <i>Rhizobi</i> audomonas, amoeba	um	, aquatic, to	xic,	CO ₂ ,				
	Spilling of petroleum oil occurs in ocean due to various reasons. This oil may prove fatal and toxic to									
	_	organisms. It is not easy to remove the oil layer from surface								
		of water by method. However, bacteria ike spp. and <i>Alcanovorax borkumensis</i>								
		have the ability to destroy the pyridines and other chemicals.								
		Hence, these are used to clear the oil spills.								
		These are called as hydrocarbonoclastic bacteria (HCB). HCB								
		lecompose the and bring about the reaction								
		carbon with oxygen.			_					
		his process.								
Q.4.	Ans	swer the following	qu	estions. (Any o	one)		[5]			
i.	Attempts at various levels are performed for conserving environment. Which role would you like to perform. Give two actions each.									
	a.	Prevention 1	b.	Control	c.	Pro	duction			
	d.	Awareness	e.	Conservation						
ii.	a.	. What is Biotechnology?								
	b.	. Give one use of Biotechnology.								
	c.	. Give one commercial use of Biotechnology.								
	d.	Write two examples of bacterial biofertilizers.								

Write names of two genetically modified crops.