

Time	e: 2 hours	Activity Sheet -	Mai	rch 2024	Marks: 40	
Q.1.	(A) Choose and	write correct o	ptio	on number as	answer. [5]	
(i)	Regeneration occurs in					
	(a) amoeba	((b)	paramoecium		
	(c) euglena	((d)	planaria		
(ii)	Lactobacillus brevis gives us the beverage					
	(a) cocoa	((b)	coffee		
	(c) wine	((d)	cider		
(iii)	A minor change occurs due to change in position of any nucleotide is termed as					
	(a) transcription	n ((b)	translocation		
	(c) mutation	((d)	translation		
(iv)	Atomic power plant in Maharashtra is at					
	(a) Chandrapur	((b)	Koyana		
	(c) Tarapur	((d)	Anjanwel		
(v)	Example of phylum Arthropoda is					
	(a) scorpion	((b)	starfish		
	(c) earthworm	((d)	hydra		
(B)	3) Answer the following.				[5]	
(i)	Pick the odd man out:					
	duckbill platypus, pomfret, lungfish, peripatus.					
(ii)	Write co-relation:					
	Skin : Melanin : : Pancreas:					
(iii)	State, true or false:					
	Production of various useful aquatic organisms with the help of water is called blue revolution.					
(iv)	Write full form of	of WHO.				
(v)	Match the pair:					
	'A'	'B'				
(1)	Male	(a) $44 + X$	X			
		(b) $44 + X$				
		(c) $44 + Y$				

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Q.2. (A) Give scientific reasons. (Any two)

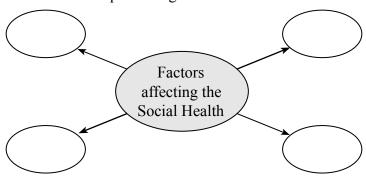
[4]

- (i) Though tortoise lives on land as well as in water, it cannot be included in class-Amphibia.
- (ii) Hydroelectric energy, solar energy and wind energy are called renewable energies.
- (iii) We feel tired after exercise.

(B) Answer any three of the following.

[6]

- (i) Write four adverse effects of radiations on human body.
- (ii) Redraw and complete the given chart.



- (iii) Write any *four* important facts which must be thought over while considering the scope of disaster.
- (iv) Name two fuels obtained by microbial processes. Why is it necessary to increase the use of such fuels?
- (v) What in DNA fingerprinting? Where is it mainly useful?

Q.3. Answer any five.

[15]

- (i) (a) What are vitamins?
 - (b) Classify them according to their solubility.
 - (c) Give one example of each type as per above classification.

- (ii) Explain the following terms:
 - (a) Stem cells
 - (b) Cloning
 - (c) Genetically modified crops





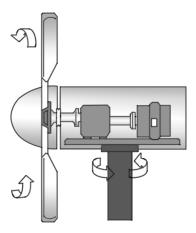


(iii) Complete the given paragraph by filling the blank spaces from the options given in the bracket.

[oxygen, pyridines, mechanical, CO_2 , petroleum, fatal, polyester, norcadia]

poryester, norcauraj
Spilling of oil occurs in ocean due to various reasons.
This oil may prove and toxic to aquatic organisms. It
is not easy to remove the oil layer from surface of water by
method. However, bacteria like Pseudomonas
spp. and Alconovorax borkumensis have ability to destroy the
and other chemicals. Hence, these bacteria are used
to clear the oil spills. These are called as hydrocarbonoclastic
bacteria (HCB). HCB decompose the hydrocarbons and bring
about the reaction of carbon with,
and water is formed in this process.

(iv) Observe the given picture and answer the questions.



Questions:

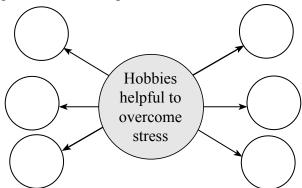
- (a) Identify the given diagram.
- (b) What is the source of energy in this project?
- (c) Why this source is supposed to be ecofriendly?







(v) Complete the following chart:



- (vi) Write names of any *six* materials which are to be in the first aid box
- (vii) (a) Define vestigial organs.
 - (b) Write names of any two vestigial organs in the human body.
 - (c) Write name of those animals in which these vestigial organs are functional.
- (viii) Read the statements and answer accordingly.
 - (a) Calcareous spines are present on the body. Tube feet are used for locomotion and capturing prey also.
 - Identify the phylum and give *one* example.
 - (b) I live in your small intestine, Pseudocoelom is present in my thread like body.
 - Identify the phylum and give *one* example.
 - (c) My body is spindle shaped. I respire with the help of gills.
 - Identify my class and give *one* example.

Q.4. Answer any one.

[5]

- (i) Answer the following questions based on human male reproductive system:
 - (a) In which organ sperms are formed?
 - (b) What is the length of a sperm?
 - (c) What is the work of vas deferens?

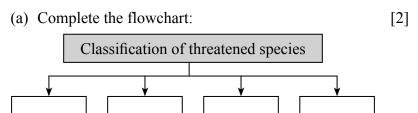








- (d) By which type of cell division, sperms are formed?
- (e) Name any *two* unpaired organs of male reproductive system.
- (ii) Answer the following questions based on environmental conservation and biodiversity:



- (b) How can biodiversity be conserved? Give any four points. [2]
- (c) Complete the flowchart: [1] Colour of the pages in Red List of Endangered Species.

