

**Chapter: 1 to 6**

**Q.1 (A) Multiple Choice Questions.**

**(5)**

- i) Cell organelles involved in the cellular respiration are the .....  
a. mitochondria      b. plastids      c. ribosomes      d. lysosomes
- ii) Transfer of information from molecule of DNA to RNA is called as ..... process.  
a. Mutation      b. Translocation      c. Transcription      d. Gradual development
- iii) Exoskeleton is absent in  
a. Dolphin      b. Pomfret      c. Turtle      d. Salamander
- iv) The Hydroelectric capacity of Koyna dam is .....  
a. 2400 MW      b. 1960 MW      c. 1900 MW      d. 1961 MW
- v) In ..... longitudinal binary fission occurs.  
a. amoeba      b. hydra      c. euglena      d. paramecium

**(B) Answer the following questions.**

**(5)**

**i) Find co-related terms**

Ovary : Fruit : : Ovules : .....

**ii) Find the odd one out.**

Prophase, Metaphase, Anaphase-I, Telophase

**iii) Match the pair.**

Column "A"	Column "B"	Column "C"
i. Solar power generation	Photovoltaic Cell	Fission of Nuclei
ii. Nuclear power generation	Uranium and Plutonium	Electromagnetic induction
	Turbine	Combustion of fossil fuels
	Steam generator	Energy from sunlight

**iv) State true or false.**

Excess of fats is stored in liver and muscles in the form of glycogen.

**v) Name the following.**

Name the device that converts DC power into AC power.

**Q.2 A) Give scientific reason. (Any two)**

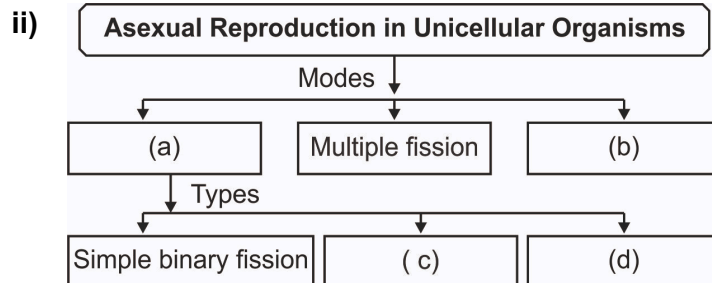
**(4)**

- i) In Planaria, regeneration is not the same as reproduction.
- ii) Carbon dating method is based upon the radioactive decay of naturally occurring C-14.
- iii) Fibers are one of the important nutrients.

**B) Answer the following questions. (Any three)**

**(6)**

- i) What are the limitations of solar energy?



- iii) Write Distinguish between

Anatomical Evidences and Morphological Evidences.

- iv) Write short notes

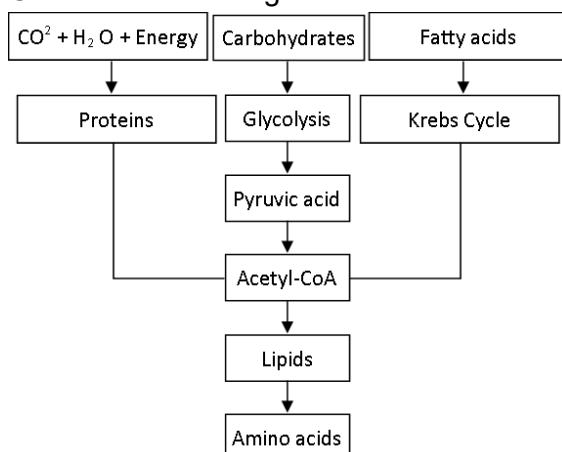
Connecting link

- v) Animals belonging to phylum Porifera

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

**(15)**

- i) Correct the following flow chart.



- ii) Explain the importance of Anatomical evidences with examples.

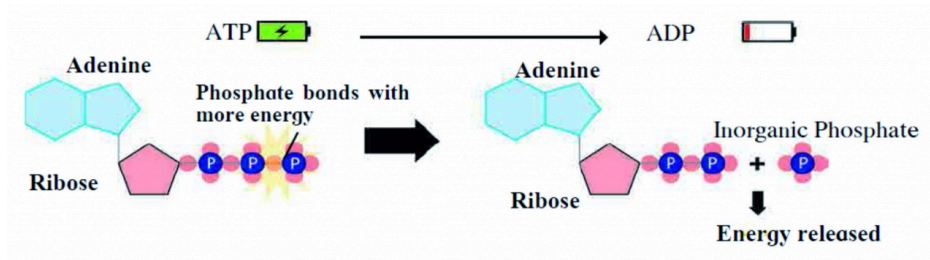
- iii) Complete the paragraph.

**(Conserving, pledge, biodiversity, judicious, wildlife, mankind, diversity, destruction)**

I am aware that the ..... on the Earth is for the existence of me, my family and the entire mankind. I am aware about the responsibility of ..... and protecting the rich

diversity. I am aware about the fast declining number of ....., plants and animals. I am accepting the responsibility of ..... use of natural resources and management of ..... . I ..... for adopting the following principles for happy and satisfactory life of all organisms on the Earth.

iv)



- i. What is ATP composed of ?
- ii. Explain why 'ATP is called as energy currency of the cell'.

v) In case of sexual reproduction, new born show similarities about characters. Explain this statement with suitable examples.

vi) Explain : Electricity generation based on fossil fuels like coal, natural gas and nuclear fuels like uranium and plutonium are not environment friendly.

vii) Vestigial organs, though non-functional in certain organism, it may be functional in other organisms. Explain.

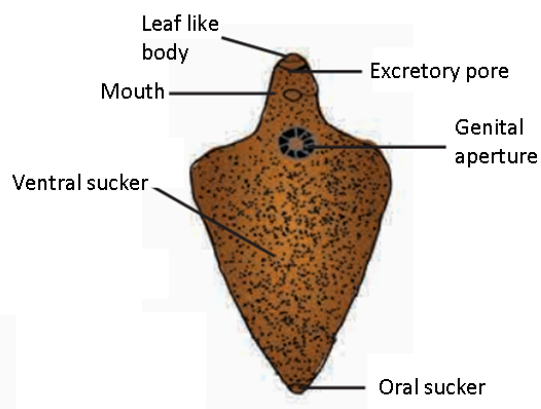
viii) Write any three grades of organization in multicellular organisms.

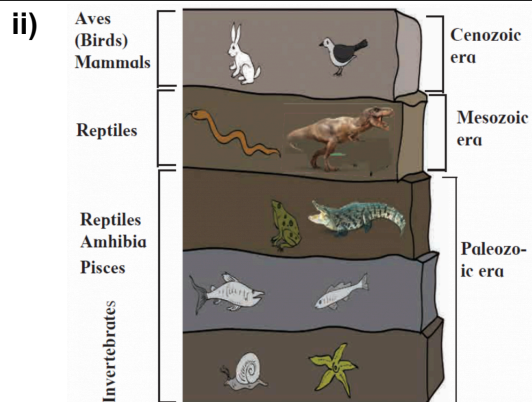
**Q.4 Answer the following in details (Any one)**

**(5)**

i) Correct the given diagram and explain its type in details:

Liverfluke





- i. What are invertebrates ?
- ii. Give any two examples of the organisms precisely found in Mesozoic era.
- iii. .... group refers to aquatic animals.
- iv. What are the remnants of the buried animals called as ?
- v. Why are the Invertebrates shown in the deepest layers of Earth ?