

- 1) Why is diffusion insufficient to meet the oxygen requirements of multicellular organisms like humans?
- 2) What are the different ways in which glucose is oxidized to provide energy in various organisms?
- 3) How is the amount of urine produced regulated?
- 4) What is the role of saliva in the digestion of food?
- 5) How are the lungs designed in human beings to maximise the area for exchange of gases?
- 6) What is the role of the brain in reflex action?
- 7) Why are some patients of diabetes treated by giving injections of insulin?
- 8) What are the functions performed by the testis in human beings?
- 9) What are the different methods of contraception?
- 10) How do Mendel's experiments show that traits may be dominant or recessive?
- 11) What is the role of decomposers in the ecosystem?
- 12) Why is damage to the ozone layer a cause for concern? What steps are being taken to limit this damage?
- 13) Write one function of each of the following components of the transport system in human beings:
  - (a) Blood vessels
  - (b) Blood platelets
  - (c) Lymph
  - (d) Heart
- 14) List two vital functions of the human kidney. Name the procedure used in the working of artificial kidney.
- 15) Why do herbivores have longer, small intestine than carnivores?
- 16) Name the acid present in the following:
  - (i) Tomato (ii) Vinegar (iii) Tamarind
- 17) What is a neuron?
- 18) Name the largest cell in the human body.
- 19) Explain 'reflex action' with a suitable example.
- 20) Explain the cause of shoots of the plant bending towards light.
- 21) Name the part of the brain which controls posture and balance of the body.
- 22) State the function of:
  - (i) gustatory receptors
  - (ii) olfactory receptors
- 23) What is synapse? In a neuron cell how is an electrical impulse created and what is the role of synapse in this context?
- 24) Define reflex action.
- 25) What happens when a mature program filament attains considerable length?
- 26) Name the life process of an organism that helps in the growth of its population.
- 27) What is DNA copying? State its importance.
- 28) List any four contraception used by humans. How does their use have a direct effect on 'the health and prosperity of a family'.
- 29) (a) In the human body what is the role of
  - (i) Seminal vesicles, and (ii) prostate gland?
  - (b) List two functions performed by testis in human beings.
- 30) List any two differences between pollination and fertilisation.

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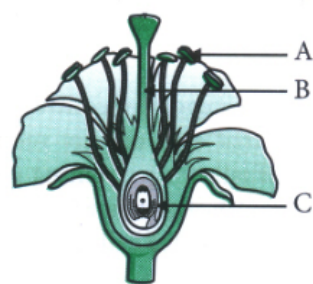
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- 31) How do organisms, whether reproduced asexually or sexually maintain a constant chromosome number through several generation? Explain with the help of suitable example.
- 32) What is placenta? Describe its structure.State its functions in case of a pregnant human female.
- 33) Name the parts A, B and C shown in the following diagram and state one function of each.



- 34) What is speciation?
- 35) What is heredity?
- 36) Explain with the help of suitable examples why certain traits cannot be passed onto the next generation? what are such traits called?
- 37) With the help of suitable examples, explain why certain traits cannot be passed onto the next generation. what are such traits called?
- 38) State the importance of chromosomal difference between sperms and eggs of humans.
- 39) Explain the terms :
- (i) Speciation
  - (ii) Natural selection
- 40) List three factors that provide evidences in favour of evolution in organisms and state the role of each in brief.
- 41) Explain with an example for each, how the following provides evidences in favour of evolution in organisms :
- (i) Homologous organs
  - (ii) Analogous organs
  - (iii) Fossils.
- 42) List three distinguishing features in tabular form between acquired trait and inherited trait.
- 43) (a) Name any four varieties of vegetables which have been produced from 'wild cabbage' by the process of artificial selection.
- (b) Give one example of an evolutionary change produced in an organism for one purpose which later on becomes more useful for a different function.
- 44) "Two areas of study namely 'evolution' and 'classification' are interlinked." Justify this statement.
- 45) Which compound are responsible for the depletion of ozone layer?
- 46) Why are green plants called 'producers'?
- 47) Which disease is caused in human beings due to depletion of ozone layer in the atmosphere?
- 48) What step is being taken to limit the damage to the ozone layer?
- 49) Why are some substances non-biodegradable?
- 50) The following organisms form a food chain. Which of these will have the highest concentration of non-biodegradable chemicals? Name the phenomenon associated with it. Insects, Hawk, Grass, Snake, Frog

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