

SNS ACADEMY
REVISION 2 FULL PORTION BIO

10th Standard

Science

Date : 04-Dec-23

Reg.No. :

Exam Time : 00:45:00 Hrs

Total Marks : 30

7 x 1 = 7

SECTION A

- 1) Photosynthesis is a
(a) Catabolic process (b) Parabolic process (c) Amphibolic process (d) Photochemical process
- 2) Peripheral nervous system constitutes:
(a) Neurons and cranial nerves (b) Cranial and spinal nerves (c) Backbone and brain
(d) Neurons and brain
- 3) Which among the following statements are true for sexual reproduction in flowering plants?
(i) It requires two types of gametes
(ii) Fertilisation is a compulsory event
(iii) It always results in formation of zygote
(iv) Offspring formed are clones
(a) (i) and (iv) (b) (i), (ii) and (iv) (c) (i), (ii) and (iii) (d) (i), (ii) and (iv)
- 4) Why are the testes located outside the abdominal cavity in scrotum
(a) Because sperm formation requires more spaces.
(b) Because sperm formation requires a lower temperature
(c) Because sperm formation requires a higher temperature. (d) None of the above.
- 5) Who have a perfect pair of sex chromosomes
(a) Girls only (b) Boys only (c) Both girls and boys (d) It depends on many other factors
- 6) Organism A recently came into existence while B was formed millions of years ago. What does this indicate?
(i) A is more efficient than B (ii) A is more complex than B.
(a) Only (i) (b) Only (ii) (c) Both (i) and (ii) (d) Either (i) or (ii)
- 7) Which of the following is an example of non-biodegradable substance?
(a) Virgin plastic (b) Plastic (c) Plants (d) Plant products

SECTION A1

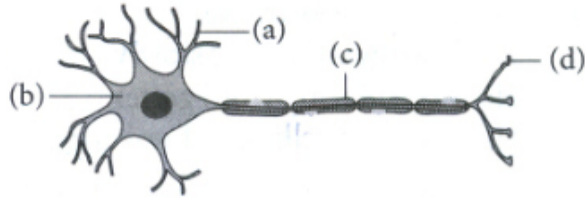
2 x 1 = 2

- 8) **Assertion:** The motor areas control the movement of voluntary muscles.
Reason: Our hands and leg muscles are the examples of voluntary muscles.
Codes
(a) If both assertion and reason are true and the reason is correct explanation of assertion.
(b) If both assertion and reason are true but reason is not a correct explanation of assertion.
(c) If assertion is true and reason is false.
(d) If both assertion and reason are false.
- 9) **Assertion:** Cells use chemical reactions to build copies of their DNA.
Reason: These copies are used to form new cells.
Codes
(a) If both assertion and reason are true and the reason is correct explanation of assertion.
(b). If both assertion and reason are true but reason is not a correct explanation of assertion.
(c) If assertion is true and reason is false.
(d) If both assertion and reason are false.

SECTION B

3 x 2 = 6

- 10) Why do fishes die when taken out of water?
 11) Label the parts of a neuron in the given figure.



- 12) In tobacco plant, the male gametes have twenty four chromosomes. What is the number of chromosomes in the female gamete? What is the number of chromosomes in the zygote?

SECTION C

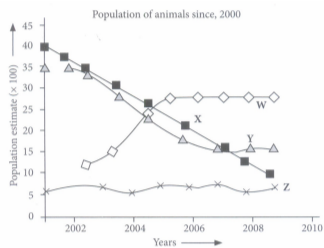
2 x 3 = 6

- 13) (i) Write the balanced chemical equation for the process of photosynthesis.
 (ii) When do the desert plants take up carbon dioxide and perform photosynthesis?
 14) What is natural selection?

SECTION D

1 x 4 = 4

- 15) A group of ecologists studied and monitored the change in population of three animal species X, Y and Z over a period of ten years. During their research, they found that a new animal species W appeared in the area and its population was also monitored.

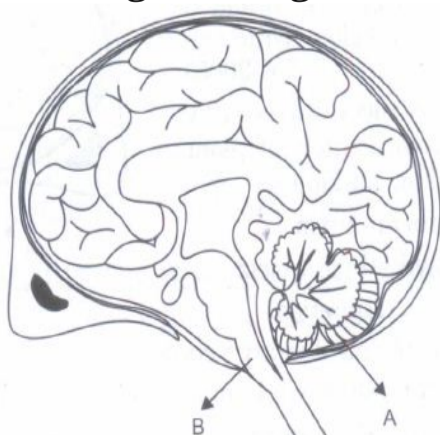


- (i) Which animal species will unlikely to be alive in 10 years without some intervention?
a) W **(b) X**
(c) Y **(d) Z**
- (ii) Which of the following species is most likely be the food source of W?
(a) X **(b) Y**
(c) Z **(d) Both X and Z**
- (iii) What will be the likely consequence if population of X completely declines?
(a) Populations of W, Y and Z also declines **(b) Population of Y declines only.**
(c) Population of Z remains unchanged. **(d) Population of Z increases.**
- (iv) What would be the most probable reason for the constant population of Z?
(a) There is plenty of food available for Z.
(b) There is no predator of Z in the community.
(c) Ratio of death rate and birth rate is nearly equal in the population of Z.
(d) There is more number of preys for Z in the community.
- (v) What could be the reason for declining of X?
(a) There could be more than one predator of X prevailing in the community.
(b) There is food scarcity for X.
(c) More number of prey species are present in the community for X.
(d) Both (a) and (b)

SECTION E (EITHER OR TYPE)

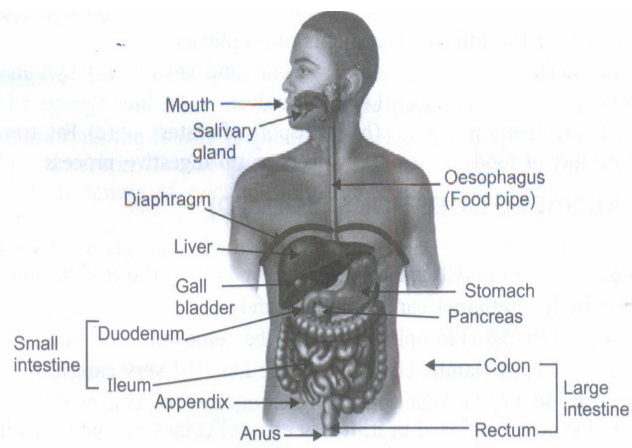
1 x 5 = 5

- 16) In the given diagram of human brain label A and B and write their function.



- 17) Describe the alimentary canal of man.

18)



Answer the following questions based on the above figure.

- (i) The organ that produces pepsin.
- (ii) The alkaline medium producing organ.
- (iii) It helps in absorption of digested food.
- (iv) It helps in absorption of water.
- (v) The part that controls the exit of the waste materials.
