

Reproduction, Control and Coordination

Practice Exercise

1. Which one of the following is a type of asexual reproduction?
(a) Fission (b) Budding
(c) Regeneration (d) All the above
(e) None of these
2. In which one of the following types of reproduction, the parent organism splits to form two new organisms?
(a) Budding (b) Binary fission
(c) Regeneration (d) Spore formation
(e) None of these
3. The method, in which the cut stems of two different plants(one with roots and other without roots) are joined together in such a way that the two stems join and grow as a single stem, is known as:
(a) Cutting (b) Layering
(c) Grafting (d) All the above
(e) None of these
4. The base of a flower to which all parts of a flower are attached is known as:
(a) Sepals (b) Petals
(c) Receptacles (d) All the above
(e) None of these
5. Which of the following can be grafted?
(a) Apple (b) Peach
(c) Apricot (d) All the above
(e) None of these
6. Hydra uses which of the following mode of reproduction?
(a) Budding
(b) Spore formation
(c) Vegetative propagation
(d) Fission
(e) None of these
7. What is formed after the fusion of male and female gametes?
(a) Zygote (b) Stigma
(c) Stamen (d) Style
(e) None of these
8. The female part of the flower is called.
(a) Stigma (b) Style
(c) Pollen grain (d) Pistil
(e) None of these
9. Which one of the following statements is correct?
Statement 1: The cells involved in sexual reproduction are called gametes.
Statement 2: Sexual reproduction leads to a greater variety in population.
(a) Statement 1
(b) Statement 2
(c) Both statements are correct
(d) Both statements are incorrect
(e) None of these
10. In which one of the following parts of the female reproductive system fertilization takes place?
(a) Uterus (b) Oviduct
(c) Vagina (d) Ovary
(e) None of these
11. The movement of organisms to chemicals is known as:
(a) Phototropism (b) Hydrotropism
(c) Chemotropism (d) Geotropism
(e) None of these
12. Which one of the following hormones inhibits the growth of a plant?
(a) Cytokinin (b) Giberellins
(c) Auxins (d) Absciscic acid
(e) None of these
13. Where is the thyroid gland is located in the human body?
(a) It is attached to the ventral side of brain.
(b) It is located behind the larynx in the neck.
(c) It is located near the heart.
(d) It is located in the abdominal cavity.
(e) None of these

- 14.** Which one of the following parts of the nerve cell receive stimulus and pass it on to the cyton?
 (a) Nucleus (b) Axon
 (c) Synapses (d) Dendrites
 (e) None of these
- 15.** The brain is covered by membranes called:
 (a) Pleura (b) Placenta
 (c) Meninges (d) Bladder
 (e) None of these
- 16.** The root of a plant is:
 (a) Positively geotropic
 (b) Negatively geotropic
 (c) Positively phototropic
 (d) All the above
 (e) None of these
- 17.** Which one of the following statements is correct?
Statement 1: Optic lobes are the centre of vision.
Statement 2: The hindbrain consists of cerebellum, pons and medulla oblongata.
 (a) Statement 1
 (b) Statement 2
 (c) Both statements are correct
 (d) Both statements are incorrect
 (e) None of these
- 18.** Which one of the following is the centre of smell?
 (a) Optic lobes
 (b) Olfactory lobes
 (c) Cerebellum
 (d) Medulla oblongata (e) None of these
- 19.** Which one of the following maintains body's posture and balance?
 (a) Cerebrum
 (b) Cerebral cortex
 (c) Cerebellum
 (d) Medulla oblongata (e) None of these
- 20.** It is a long cord which arises from the medulla oblongata and runs through the vertebral column. Name it.
 (a) Cerebellum (b) Spinal cord
 (c) Pons (d) Cerebral cortex
 (e) None of these
- 21.** The part of male reproductive system which stores sperms in immobile state:
 (a) Seminiferous tubules
 (b) Epididymis (c) Penis
 (d) Urethra (e) None of these
- 22.** Ovary is attached to the uterus by _____.
 (a) Prostate gland (b) Cervix
 (c) Mesovarium (d) Clitoris
 (e) None of these
- 23.** Fill in the blanks with appropriate options.
 The _____ develops into a seed. After fertilization, the _____ divides many times to form an embryo within the _____. The embryo contains tiny root called _____ and a future shoot called _____. The _____ divides to form nutritive tissue which supplies food to the developing embryo.
 (a) Ovary, Ovule, Ovary, Plumule, Radicle, Cotyledon
 (b) Ovule, Zygote, Ovule, Radicle, Plumule, Endosperm cell
 (c) Ovary Ovule, Ovary, Radicle, Plumule, Endosperm cell
 (d) Ovule, Zygote, Ovule, Plumule, Radicle, Endosperm cell
 (e) None of these
- 24.** Which of the following groups of organisms reproduces by spore formation?
 (a) Spirogyra, Dahlia, Chlamydomonas, Rhizopus, Hydra
 (b) Penicillium, Chlamydomonas, Spirogyra, Hydra, Bryophyllum
 (c) Chlamydomonas, Penicillium, Rhizopus, Mucor, Mosses
 (d) Mucor, Spirogyra, Chlamydomonas, Penicillium, Rhizopus
 (e) None of these
- 25.** Few characteristics of an organism are given below. Identify the correct name of the organism based on the given characteristics.
 i. Green, filamentous algae
 ii. Reproduces by fragmentation.
 iii. Found in ponds and lakes.
 (a) Hydra (b) Spirogyra
 (c) Planaria (d) Sea anemone
 (e) None of these

26. Which one of the following does not reproduce by vegetative propagation?

- (a) Banana (b) Garlic
(c) Water hyacinth (d) Tulip
(e) None of these

27. The stimulus in thigmonasty is :

- (a) Light (b) Chemical
(c) Touch (d) Water
(e) None of these

28. Which of the following is a plant hormone?

- (a) Insulin (b) Thyroxin
(c) Oestrogen (d) Cytokinin
(e) None of these

29. Which layer of axon is constricted at intervals?

- (a) Myelin sheath (b) Axolemma
(c) Neurolemma (d) Cyton
(e) None of these

30. Diencephalon is a part of :

- (a) Midbrain (b) Hindbrain
(c) Forebrain (d) Spinal cord
(e) None of these

31. Which one of the following statements is incorrect?

- (a) Pons are a part of midbrain.
(b) Spinal cord is also known as vertebral column.
(c) Medulla oblongata is a part of forebrain.
(d) All the above
(e) None of these

32. Match the following:

Column A	Column B
(i) Sensory Organ	(A) Afferent neurons to efferent
(ii) Efferent nerve	(B) Receptor to spinal cord
(iii) Relay neurons	(C) Spinal cord to muscles
(iv) Afferent nerve	(D) Perceive the stimulus

- (a) (i - C), (ii - D), (iii - A), (iv-B)

(b) (i-D), (ii-C), (iii-A), (iv-B)

(c) (i-D), (ii-C), (iii-B), (iv-A)

(d) (i-D), (ii-A), (iii-C), (iv-B)

(e) None of these

33. The part of brain which controls feelings of love and hatred is:

- (a) Cerebellum (b) Cerebrum
(c) Medulla oblongata (d) Optic lobes
(e) None of these

34. The most important part of the brain which controls heart beat and blood pressure is:

- (a) Cerebellum (b) Cerebrum
(c) Medulla (d) Cranium
(e) None of these

35. Which one of the following glands are ductless glands?

- (a) Lacrimal gland (b) Sebaceous gland
(c) Adrenal gland (d) All the above
(e) None of these

36. Which one of the following statements is incorrect?

- (a) Ovaries are found only in females.
(b) Testes are found only in males.
(c) Adrenal glands are found above kidneys.
(d) Hypothalamus gland is present in the brain.
(e) None of these

37. Match the following:

Column A	Column B
(i) Thyroid gland	(A) Modulation of wake/sleep patterns
(ii) Adrenal gland	(B) Male puberty
(iii) Pineal gland	(C) Glands of emergency
(iv) Testes	(D) Perceive the stimulus

(a) (i-D), (ii-C), (iii-B), (iv-A)

(b) (i-D), (ii-C), (iii-A), (iv-B)

(c) (i-D), (ii-A), (iii-B), (iv-C)

(d) (i-C), (ii-A), (iii-B), (iv-D)

(e) None of these

- 38.** The hormone which controls the uterus changes in menstrual cycle:
- (a) Progesterone (b) Testosterone
 - (c) Thymus gland (d) Adrenal gland
 - (e) None of these
- 39.** In which of the following organisms reproduction takes place through binary fission?
- (a) Plasmodium (b) Monocystis
 - (c) Bacteria (d) Amoeba
 - (e) None of these
- 40.** Gestation period in human beings is about:
- (a) 40 weeks (b) 30 weeks
 - (c) 20 weeks (d) 25 weeks
 - (e) None of these

Answers – Key

1. D	2. B	3. C	4. C	5. D
6. A	7. A	8. D	9. C	10. B
11. C	12. D	13. B	14. D	15. C
16. A	17. C	18. B	19. C	20. B
21. B	22. C	23. B	24. C	25. B
26. E	27. C	28. D	29. A	30. C
31. D	32. B	33. B	34. C	35. C
36. E	37. B	38. A	39. D	40. A