BIOLOGY WORKSHEET

Prepared by Effoi Assignment Helper

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I. Write "true" if the statement is correct or "false "if it is incorrect.

_____ 1. Drugs change the way our body and brain works.
_____ 2. One can be diabetic even in the presence of insulin if its body can't respond to insulin.
_____ 3. Collectively, hormonal methods are more effective than barrier methods of contraception.
_____ 4. Follicle stimulating hormone is secreted by both testes and ovaries.
_____ 5. Puberty brings both physical and behavioral change in boys and girls.
_____ 6. Female genital mutilation is a harmful practice committed against human right without medical basis.
_____ 7. Zebras are among the endemic mammals species of Ethiopia.
_____ 8. Photosynthesis is also important even in recycling elements like carbon.
_____ 9. The major cause for the contemporary global climate change is natural disaster.
_____ 10. Carbon monoxide largely contributes to global warming up.

II. Match the human reproductive structures under column B with their correct descriptions under column A

Column A	column B
_____ 11. Produce female gametes	A. Scrotum
_____ 12. Produce male gametes	B. Uterus
_____ 13. Store and mature male gametes till ejaculation	C. Penis
_____ 14. Carries semen from storage site to urethra during ejaculation	D. Epididymis
_____ 15. Urogenital organ delivering semen to female reproductive organ	E. Vagina
_____ 16. It's a sac that hold testes at lower temperature outside the body	F. Ovaries
_____ 17. A muscular wall where the embryo develops	G. Hymen
_____ 18. A narrow tube where fertilization takes place	H. Oviduct
_____ 19. It's known as female copulatory organ or birth canal	I. Testes
_____ 20. A thin piece of tissue partly covering the vaginal opening	J. Vas deference

III. Choose the correct answer from the given alternatives

_____ 21. Wealth of species in a given place refers to
A. Biomass B. Biosphere C. Biodiversity D. Biome

_____ 22. Which of the following is the largest part of human bran?
A. Pons B. hypothalamus C. Pituitary gland D. Cerebrum

_____ 23. Which of the following nitrogenous base is not component of a DNA molecule?
A. Guanine B. Uracil C. Cytosine D. Adenine

_____ 24. Which of the following is a female reproductive structure?
A. Prostate gland B. Seminal vesicle C. Cervix D. Cowper's gland

_____ 25. Release of egg from the ovary stimulated by
A. FSH B. LH C. TSH D. Oestrogen

_____ 26. Which of the following contraceptive method can serve for longer time if it is carefully placed?
A. Hormonal implant C. Intrauterine device (IUD)
B. Contraceptive pills D. Cup or diaphragm

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_____27. One of the following physiological method is used by animals in cold time minimize heat loss through body surfaces.

A. Piloerection B. Vasodilation C. Sweating D. Panting

_____28. The structural and functional unit of the kidney is

A. Alveoli B. Neurons C. Nephrons D. hepatocytes

_____29. Which of the following is NOT the function of the liver?

A. Conversion of excess glucose into glycogen
B. Deamination of proteins to be used in cellular respiration
C. Removal of toxic or poisonous substances from items we take in
D. Removal of burnt gas out from our body

_____30. Reabsorption of all glucose, most water and mineral ions takes place in the

A. Collecting duct C. second coiled tube
B. First coiled tube D. loop of Henle

_____31. Photosynthesis do NOT take place in

A. Epidermal tissues C. Palisade tissues
B. Guard cells D. mesophyll tissues

_____32. To test for the importance of chlorophyll for photosynthesis we use

A. Cobalt chloride paper C. Variegated leaf
B. Potassium hydroxide D. Glowing splint

_____33. Desert plants withstand desert ecosystem by having all **EXCEPT**

A. Hairy leaves C. very thick waxy cuticles
B. Reduced leaf size D. exposed stomata on upper surface

IV. Fill in the blank spaces with the correct answers

34. _____stands for maintaining or keeping internal environment or conditions to stay the same or constant.
35. _____a kind of deep sleep done in hot seasons when they cannot keep their bodies cools enough.
36. Xylem tissues transport _____ and _____up to leaves.
37. _____ is a plant hormone that stimulates growth in length or shoot.

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V. Answer the following questions briefly.

38. What are the two types of animals in terms of regulation of their body temperature?
39. What are the three basic factors or requirements that determine seed germination?
40. Describe plant shoot growth with respect to light or phototropism.
41. What are the conditions that trigger the need for homeostasis?
42. What are homoiotherms? Give examples of them.
43. What are the 3 mechanisms homoiotherms carry out to control their body temperature?
44. Contrast poiklotherms with homoiothetms with at least 4 statements.
45. Which physiological methods are used by animals to increase their body temperature in cold conditions?
46. Which physiological methods are used to lower their body temperature when it goes hotter?

47. Define:
    - Licking
    - Panting
48. Which means, panting or sweating is more important for dogs to lower body temperature in a hot day? Why?
49. Which one, vasodilation or vasoconstriction increases body temperature? How?
50. How shivering is considered as means of homeostasis?
51. What is the function of ADH - anti-diuretic hormone in our body?
52. List out and describe the substructures of the kidney with their functions in short.
53. Trace the path urine moves from the kidneys to outside.
54. Differentiate ureter and urethra
55. What is urinary bladder? What is its excretory function?
56. Outline homeostatic functions the skin carriers out.
57. What we call the tough rings muscles controlling release of urine from the urinary bladder.
58. When and what kind of protein metabolism takes place in the liver.
59. What is detoxification?
60. Outline the homeostatic functions done by the liver.
61. What is the difference between chloroplast and chlorophyll?
62. List out 3 different functions of each of the following structures.
    - Leaves
    - Stems
    - Roots
63. List out 3 structures in a leaf where photosynthesis can take place.
64. Outline the differences between xylem and phloem.
65. To carry out photosynthesis plants need 4 things? What are they?
66. How do you test whether a green plant has carried out photosynthesis or not?
67. What are products of light dependent reaction of photosynthesis?
68. Why we boil the leaf to be tested for starch?
69. How and why we remove the green pigment from the leaf to be tested for starch?
70. What is the source of oxygen atoms that:
    - given off during photosynthesis?
    - make a glucose molecule during photosynthesis?

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