

Hill Side School 2012 E.C 4th Quarter Answer for Grade 10 Biology Final Exam

I. Write true for correct while false for incorrect statement

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

II. Match the human reproductive structures with their correct descriptions

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

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
Answer: C
22. Which of the following is the largest part of human brain?
A. Pons B. hypothalamus C. Pituitary gland D. Cerebrum
Answer: D
23. Which of the following nitrogenous base is not component of a DNA molecule?
A. Guanine B. Uracil C. Cytosine D. Adenine
Answer: B

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

Answer: C

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

Answer: B

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

Answer: C

27. One of the following physiological methods is used by animals in cold time to minimize heat loss through body surfaces.

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

Answer: A

28. The structural and functional unit of the kidney is

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

Answer: C

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. Elimination of toxic or poisonous substances from items we take in
D. Removal of burnt gas out from our body

Answer: D

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

Answer: B

31. Photosynthesis do NOT take place in

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

Answer: A

32. To test for the need of chlorophyll for photosynthesis we use

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

Answer: C

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

Answer: D

IV. Fill the gap sentences with correct answers

34. _____ stands for maintaining or keeping internal environment or conditions to stay the same or constant. **Answer: Homeostasis**

35. _____ a kind of deep sleep done in hot seasons when they cannot keep

their bodies cool enough. **Answer: Aestivation**

36. Xylem tissues transport _____ and _____ up to leaves.

Answer: water and minerals

37. _____ is a plant hormone that stimulates growth in length or shoot tip.

Answer: Auxine

V. Answer the following questions briefly.

38. What are the two types of animals in terms of regulation of their body temperature?

Answer: Poikilotherms and homotherms

39. What are the three basic factors or requirements that determine seed germination?

Answer: Moisture, air (oxygen) and suitable temperature.

40. Describe plant shoot growth with respect to light or phototropisms.

Answer: The shoot grows towards unilateral light source. The shoot positively phototropic.

Wishing you understanding!
By Selamu A and Shimelis C.
June 2020

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ከ7-12 ላላችሁ ተማሪዎች

እንደሚታወቀው ከ2015 ዓ.ም ጀምሮ የዩኒቨርሲቲ መግቢያ ፈተና ከ9ኛ-12ኛ ክፍል ያለውን የሚያጠቃልል ነው። ይህም ተማሪዎች ላይ ጫና መፍጠሩ የማይቀር ነው። እኛም ከ2015 ዓ.ም የት/ት ዘመን ጀምሮ በነፃ Mathematics ትምህርትን ከ9ኛ-12ኛ ክፍል ላላችሁ ተማሪዎች Example & Exercise Solution ጨምሮ ቀለል ባለ እና በሚገባችሁ መንገድ ለየት ያሉ YouTube video እያዘጋጀን የምናግዛችሁ መሆኑን ስናሳውቃችሁ በታላቅ

አክብሮት ነው።

ከእናንተ የሚጠበቀው በትኩረት መከታተል ብቻ ነው።

Thank You

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