

National Standard Examination in Biology (NSEB) Solved Paper 2016 Part-4

Q: 24. Following are the biotic components of an ecosystem

- (i) Primary Producers
- (ii) Primary Consumers
- (iii) Secondary Consumers
- (iv) Tertiary Consumers
- (v) Decomposers

The components without which an ecosystem cannot exist is/ are

- (A) ii, iii, iv and v
- (B) i & v only
- (C) i & ii only
- (D) i only

Answer: (B)

Q: 25. Assuming same body size, which of the following animals will have largest stomach?

- (A) Dolphin
- (B) Llama
- (C) Leopard
- (D) Vulture

Answer: (B)

Q: 26. Choose the correct combination of the animals 1 and 2 with the feature that differentiates them.

	Animal 1	Animal 2	Feature
(A)	Lizard	Tiger	Amniotic egg

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|-----|---------|---------|--------------|
| (B) | Shark | Frog | Lungs |
| (C) | Tiger | Gorilla | Hair |
| (D) | Gorilla | Human | Loss of tail |

Q_26_ TABLE OF CHOOSE THE CORRECT COMBINATION ANIMALS

Answer: (B)

Q: 27. If the frequency of a dominant phenotype in a stable population is 75%, the frequency of recessive allele in that population would be,

- (A) 0.375
- (B) 0.25
- (C) 0.75
- (D) 0.50

Answer: (B)

Q: 28. During a field trip, a zoology student collected some specimens, They tried identifying one of the specimens. To do this they observed and listed the following characteristics: Absence of special sense orgAnswer such as eyes, ability to withstand low oxygen levels and poorly developed nervous system. The specimen could most likely be:

- (A) A free-living flatworm such as Planaria
- (B) An ectoparasites like flea
- (C) A filter feeder like mollusk
- (D) An endoparasite like liver fluke

Answer: (D)

Q:29. Which one of the following genetic disorders can be detected by karyotyping?

- (A) Down syndrome
- (B) Phenylketonuria
- (C) Hemophilia
- (D) Huntington's Disease

Answer: (A)

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Q: 30. In a test cross of F1 generation having a genotype AaBb, following progeny were obtained; AaBb (450), aabb (450), Aabb (50), aaBb (50)

How far in centimorgAnswer (cM) are the a and b genes?

(A) 100

(B) 90

(C) 10

(D) 1

Answer: (C)

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