**3 Genes and Evolution: Multiple Choice Questions for Students**

1. DNA is composed of
   1. a sugar and a phosphate group
   2. a sugar and a potassium group
   3. a salt and a phosphate group
   4. a salt and a potassium group

Answer A

2. RNA stands for

1. robonucleic acid
2. rebonucleic acid
3. ribonucleic acid
4. rubonucleic acid

Answer C

3. \_\_\_\_\_ is the means by which the genetic information accumulated in a strand of DNA is duplicated into a strand of RNA.

1. transcription
2. translation
3. production
4. replication

Answer A

4. What is process called that makes it possible for genetic material to be transferred from one chromosome in the pair to the other?

1. gene sharing
2. crossing over
3. passing over
4. translocation

Answer B

5. Which of the following is a genetic trait?

1. intelligence
2. weight
3. height
4. eye colour

Answer D

6. Meiosis \_\_\_\_\_ amount of chromosome sets.

1. increases the
2. keeps the same
3. quarters the
4. decreases the

Answer D

7. Aplysia californica is a

1. worm
2. insect
3. sea slug
4. giant snail

Answer C

8. \_\_\_\_\_ or motor neurons are nerve fibres that transmit information away from the central nervous system;

1. efferent
2. afferent
3. spinal
4. sensory

Answer A

9. Sensitisation in alplysis is believed to be the result of

1. dendrite up regulation
2. second messenger systems such as cAMP
3. serotonin
4. GABA reuptake

Answer B

10. \_\_\_\_\_ proteins are able to slow down the start of transcription by attaching themselves to the promoter and mitigating RNA polymerase.

1. stopping
2. repressor
3. halting
4. large

Answer B