

ENTRY TEST FOR CLASS XI- MAY 2013

PAPER BIOLOGY

Q.1: SHORT QUESTIONS

Give appropriate answer of the following short Questions. Note: All questions carry equal marks.(3X10 = 30)

- i. Describe briefly the protocol of peritoneal dialysis.
- ii. Differentiate between positive and negative feedback.
- iii. Write down the path of nerve impulse during reflex action.
- iv. What are skeletal muscles? Differentiate between tendon and ligaments.
- v. Differentiate between parthenogenesis and parthenocarpy.
- vi. What is alternation of generation in plants? Describe its role in plant's sexual reproduction.
- vii. What were the results of Watson and Crick's experiments about structure of DNA?
- viii. What are ecological pyramids? Support your answer with one example.
- ix. Differentiate between green house and greenhouse effect.
- x. Differentiate between bactericidal, bacteriostatics and antiseptics chemical agents.

Q.2: LONG QUESTIONS

Give answer of the following questions in detail.

- i. Explain how Mendel proved the law of independent assortment. (8)
- ii. Describe the process of spermatogenesis and oogenesis. (7)
- iii. Describe the main components of human skeleton in detail. (8)
- iv. Outline the major gland of endocrine system with name of their hormones and function. (7)

Time: 75 Minutes **CADET COLLEGE KALLAR KAHAR** Total Marks: 80
ENTRANCE TEST FOR CLASS XI- MAY 2014
PAPER BIOLOGY

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Q.1 Multiple choice questions (12)

1. Most of the gaseous exchange in a leaf occurs through
a) Stomata b) general surface c) cuticle d) lenticels
2. It play important role in keeping body temperature constant:
a) Kidney b) liver c) skin d) lungs
3. The bands which attach muscles to bones are called:
a). ligaments b) tendons c) cartilage d) muscles
4. This is not the part of hindbrain:
a). pons b).medulla c) Cerebrum d). Cerebellum
5. Planaria reproduces asexually by:
a) Budding b).binary fission c) meiosis d). anther
6. All of these are hormones except
a) Thyroxin b) pepsinogen c) Glucagons d).insulin
7. What type of blood vessels surrounds alveoli?
a) Vein b) artery c) capillary d) arteriole
8. How many bone make our skull?
a) 14 b) 22 c) 24 d) 26
9. Fertilized egg is called
a) Ova b) zygote c) pollen grain d) sperm
- 10 the enzyme which is used to dissolve blood clot is
a) Urokinase b) thymosin c) beta endorphin d) interferon
11. The genotype of wrinkled green seeds was:
a) RRyy b)RyYr c)RRYY d).rryy
- 12 consumers include
a) Animals b) protozoan c) fungi d).all of these

Time: 75 mins

CADET COLLEGE KALLAR KAHAR
ENTRY TEST FOR CLASS XI-MAY 2015
PAPER BIOLOGY

Total Marks: 60

Q.1 SHORT QUESTIONS (16x3=48)

- I. What is bronchitis? Give its symptoms and causes.
- II. Draw a labeled diagram of nephron.
- III. Enlist the parts of human air passage way.
- IV. Differentiate between nerve impulse and solitary nerve impulse.
- V. Differentiate between antagonism and extension.
- VI. How microspores in flowering plants develop into male gametophyte?
- VII. What is co dominance? Explain with example.
- VIII. Define commensalism? Give at least two examples.
- IX. What do you know about concept of 3R.explain
- X. What is single cell protein? Who discovered this technique?
- XI. Define the terms I Analgesics II Antibiotics III.Vaccine.
- XII. What is myopia? How can it be rectified?
- XIII. Differentiate between parthenogenesis and parthenocarpy
- XIV. Differentiate between Community and Ecosystem
- XV. Define fermentation. Write its types
- XVI. What is genetic engineering?

Q.2 LONG QUESTIONS (6x2=12)

- I. State and explain Mendel's law of segregation.
- II. What is mode of action of vaccine ?Explain in detail

Time: 75mins

CADET COLLEGE KALLAR KAHAR
ENTRANCE TEST FOR CLASS XI-MAY 2016
PAPER BIOLOGY

Total Marks: 60

Q.1 SHORT QUESTIONS (16X3=48)

- I. What is trachea? Write the function of C -Shaped cartilaginous rings in trachea.
- II. Differentiate between Stomata and Lenticels.
- III. Write three adaptations in xerophytes to prevent loss of water.
- IV. What is Lithotripsy?
- V. Define the terms I. Rods II. Cones III. Fovea
- VI. What is the difference in the function of Insulin and Glucagon?
- VII. What is meant by extensor muscle and extension?
- VIII. What is Arthritis? Write down its symptoms and treatment.
- IX. Define budding and give one example.
- X. What is double fertilization?
- XI. Differentiate between transcription and translation.
- XII. What is parasitism? Give some examples of parasites.
- XIII. What are different biotic components of environment?
- XIV. Write down four main achievements of Genetic Engineering.
- XV. What are Vaccines? Who made the first vaccine?
- XVI. Differentiate between Medicinal drug and Addictive drug.

Q.2 LONG QUESTIONS (6X2=12)

- I. Explain Reflex action and Reflex Arc with the help of labelled diagram
- II. State and explain Mendel's Law of independent assortment with example.

Good Luck