

SUCCESS KEY TEST SERIES

Annual Examination

Std: 11th Science

Subject: Biology

Time: 3 Hours

Date :

Sample Question Paper

Max Marks: 70

Section A (MCQ & VSA 1 MARKS Questions)

Q.1 Select and write the correct answer:

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- (i) Which of the following place preserves and displays plant and animal specimens of scientific significance for the education of the public?
(a) Museum (b) Zoo (c) Botanical Garden (d) Herb Farm
- (ii) China rose is an example of _____.
(a) Angiosperm- Dicotyledonae (b) Angiosperm- Monocotyledonae
(c) Gymnosperm- Monocotyledonae (d) Gymnosperm- Dicotyledonae
- (iii) Most of the _____ are combination of a co- enzymes and apo- enzymes
(a) Activators (b) Enzymes (c) Endo-Enzymes (d) Exo- Enzymes
- (iv) Amitosis is shown by which organism?
(a) Plants (b) Bacteria (c) Hydra (d) Fungi
- (v) Many ovaries of apocarpous gynoecium can form one fruit. Such fruits are called _____.
(a) Simple fruits (b) Parthenocarpic fruits (c) Composite fruits (d) Aggregate fruits
- (vi) Muscle cells contain large number of _____.
(a) Ribosomes (b) Endoplasmic reticulum (c) Golgi bodies (d) Mitochondria
- (vii) The sequential order in electron transport from PSII to PSI of photosynthesis is
(a) FeS, PQ, PC and Cytochrome
(b) FeS, PQ, Cytochrome and PC
(c) PQ, Cytochrome, PC and FeS
(d) PC, Cytochrome, FeS, PQ
- (viii) In eukaryotes the complete oxidation of a molecule of glucose results in the net gain of
(a) 2 molecules of ATP (b) 36 molecules of ATP
(c) 4 molecules of ATP (d) 38 molecules of ATP
- (ix) Each pectoral girdle consists of
(a) radius and ulna (b) clavicle and scapula
(c) phalanges and sternum (d) lateral Suture and coronal Suture
- (x) The largest and strongest facial bone is
(a) ethmoid bone (b) sphenoid bone (c) mandible (d) vomer bone

Q.2 Answer the following:

8

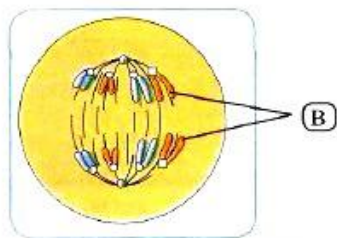
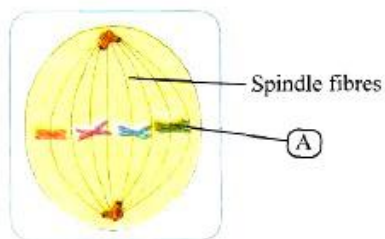
- (i) Why horse and ass are considered to be two different species or animals?
- (ii) Is histones of nucleoproteins are water soluble in nature?
- (iii) What are the components of Periderm?
- (iv) What are the main parts of leaf?
- (v) What is termed as absorption spectrum?
- (vi) How is Acetyl CoA formed after Glycolysis?
- (vii) Muscularis layer in stomach is thicker than that in intestine. Why is it so?
- (viii) Can you compare bone, muscle and joint which help in locomotion with any of simple machines you have studied earlier?

Section B (SA I - 2 MARKS EACH)

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Attempt any Eight:

- Q.3** Whether all organism are similar? Justify your answer.
- Q.4** Why Bryophyta are called amphibians of Plant Kingdom?
- Q.5** Fish and snake both have scales. How do these scales differ from each other?
- Q.6** How cytoplasm differs from nucleoplasm in chemical composition?
- Q.7** Identify the following phases of mitosis and label the 'A' and 'B' given in diagrams



- Q.8** Student found a wooden stopper in lab. He was told by an old lab attendant that it is there for many years. He kept thinking how it did not rot?
- Q.9** Draw a well labelled diagram: Insertion of floral whorls
- Q.10** Write short note on Stolon
- Q.11** Priya got injured in an accident and hurt her long bone and later on she was also diagnosed with anaemia. What could be the probable reason?
- Q.12** What would have happened if cockroach did not had gizzard?
- Q.13** Distinguish between action spectrum and absorption spectrum.
- Q.14** What is effect of carbon monoxide poisoning on cytochromes?

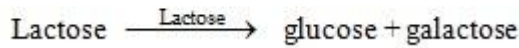
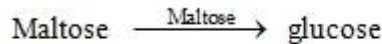
Section C (SA II - 3 MARKS EACH)

24

Attempt any Eight:

- Q.15** Write short note : Useful Fungi
- Q.16** Give the information about coral reef and sea fan.
- Q.17** Identify each cell structures or organelle from it's description below.
- Manufactures ribosomes.
 - Carrys out photosynthesis.
 - Can bud of vesicles, which form the golgi apparatus.
- Q.18** How do secondary metabolites useful for mankind?
- Q.19** Write the significance of mitosis.
- Q.20** Write a short note on Structure of stomata.
- Q.21** Compare and contrast between various types of muscles.

- Q.22** Sketch and label a well labelled diagram: Relation between light and dark reaction
- Q.23** What is Aerobic and Anaerobic respiration.
- Q.24** Observe the following reactions and explain in words.



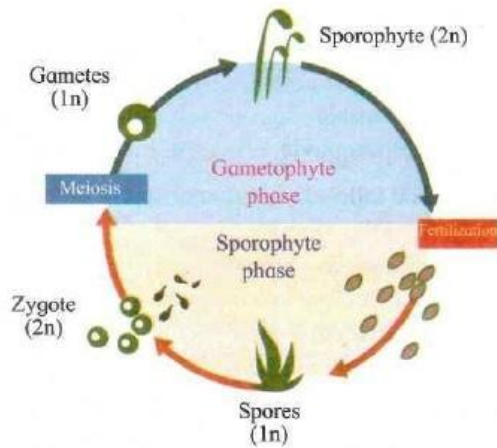
- Q.25** Make a flow chart for digestion of carbohydrate.
- Q.26** John has two options as treatment for his renal problem : Dialysis or kidney transplants. Which option should he choose? Why?

Section D (SA II - 4 MARKS EACH)

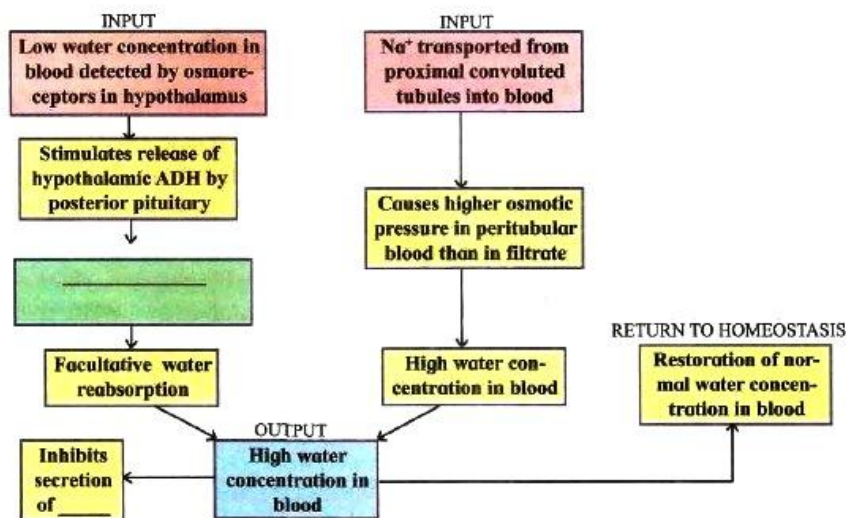
Attempt any Three:

12

- Q.27** Observe the following diagram. Correct it and write the information in your words.



- Q.28** What do you mean by aestivation. Explain its different types with help of a diagram.
- Q.29** Describe nervous system of cockroach.
- Q.30** Complete the diagram / chart with correct labels / information. Write the conceptual details regarding it



- Q.31** Explain the structure of a typical vertebra.

----- All the Best -----