BIOLOGY

2016

Max. Marks: 15 Time: 30 Minutes

SECTION "A" (MULTIPLE CHOICE QUESTIONS)

Choose the correct answer for each from 1.

(15)the given options:

Alkhil, Al-Ibil, Al-Wahoosh were written by: (ii)

Abdul Malik Asmai Jabir Bin Hayan •

Ziauddin Baitar lbn-Al-Haitham

The family of Mustard is: (ii) Brassicaceae • Poaccae • Rosaceae • Palmaceae

Characteristic of viruses due to which they are (iii)

considered as living:

Undergo Crystallization • Undergo Reproduction

Total Parasite Non-cellular structure •

Glycogen is a molecule that belongs to: (iv) Carbohydrate • Fats • Protein • Vitamins

Respiratory Organs of insects are: (v)

Flame cells . Malpighian Tubules . Trachea . Lungs

R.B.G. are concerned with the transport of: (vi) Oxygen & Carbon dioxide Nutrients

Homones Enzymes Blood is filtered in the Kidneys through the: (vii)

Bowman's capsule • Glomerulus Loop of Henle Renal Tubule

The part of brain associated with the intelligence, (viii) memory, etc is:

Cerebrum • Cerebellum • Pons • Medulla Oblongata The number of chromosomes in each human cell is: (ix)

23 • 26 • 36 Cocci bacteria are of this shape: (x)

Rounded • Rod shaped • Spiral shaped • Curved Cuscuta plant is a: • Total Parasite (xi)

Partial Parasite • Saprophyte • Symbiont

The book "Kitab-ul-Manazir" is written by: (xii) Bu-Ali-Seena lbn-ul-Haitham

Jabir-Bin Hayan Al-Razi (xiii) It has no teeth in the mouth of:

Shark • Frog • Man Eagle The sensory layer of eye ball is:

Sclerotic • Choroid • Retina • Cornea This disease is caused by Salmonella typhosa: (xv)

Malaria • Dysenty • Cholera • Typhoid

2016 BIOLOGY Max. Marks: 68

SECTION "B" (SHORT-ANSWER QUESTIONS) (MARKS 21)

Time: 2 1/2 Hours

2.

5.

8.

11.

13.

18.

19.

21.

22.

(ii)

ZOOLOGY

BOTANY

Define any two:

pollination.

NOTE: Answer 7 questions from this section. Draw a neat and labeled diagram of Dorsal view of heart

Write three functions of blood. 3. Define Binary Fission and Multiple Fission. 4.

Write differences between any one of the following:

Arteries & Vein (ii) Anaemia and Haemophilia What is Biology? Define any two branches of Biology. 6.

Write the names of three Endocrine Glands and also 7. write names of Hormones secreted by these glands.

Define and give one example of each of the following:

Write three main points of Darwin's theory of Evolution.

(MARKS 21)

Carnivores (ii) Herbivores (iii) Omnivores Draw a neat and labeled diagram of the structure of a 9.

human tooth. Write three differences between Prokaryotic cell and 10. Eukaryotic cell.

Write differences between any one of the following: 12. Angiosperm and Gymnosperm (i)

NOTE: Answer 7 questions from this section.

Tactic movement (ii) Species (iii) Decomposers Draw a neat and labeled diagram of Pitcher Plant 14.

Respiration and Combustion

(Insectivorous): What is pollination? Write names of two type of 15.

Write three points about importance of Transpiration for 16. Draw a neat and labeled diagram of Chlamydomonas. 17.

Write three points of importance of fungi.

Write short note on Flora of Pakistan.

Define the following: 20. (ii) Biogenesis Mitosis (iii) Osmosis (i)

Write the name of the four whorls of flower of Brassica

and write one function of each. SECTION 'C' (DETAILED-ANSWER QUESTIONS)

BOTANY

(MARKS 14) ZOOLOGY

NOTE: Attempt 2 questions from this section.

Describe disorders of Respiratory system in man.

Draw a neat and labeled diagram of Internal Structure of 23. eye of Frog.

What is tissue? Describe any two types of animal 24. tissues with the help of labeled diagram.

(DETAILED-ANSWER QUESTIONS)

(MARKS 14)

NOTE: Attempt 2 questions from this section. Draw a neat and labeled diagram of T.S. of Brassica 25.

Root.

26. Describe an experiment to prove that Carbon dioxide is essential for photosynthesis. Also draw the diagram.

What is meant by Dispersal of Seeds and Fruits? 27. Describe any two methods of dispersal of seeds & fruits.