

**MODEL PAPER “BIOLOGY”**  
**Secondary School Annual Examination 2008 And Onward**

**Roll No.**  
**In Figures** \_\_\_\_\_  
**In Words** \_\_\_\_\_

**OBJECTIVE**

**Time: 20 Minutes**

**Marks: 17**

**Note: Write your Roll No. in space provided. Over-writing, Cutting, Using lead pencil will result in loss of marks.**

**Q.No.1. Select the correct answer.**

**17**

- (i) Study of microscopic organisms is called.  
(a) Microbiology (b) Macro biology  
(c) Morphology (d) Paleontology
- (ii) Which arteries supply blood to kidneys.  
(a) Mesenteric (b) Iliac  
(c) Renal (d) Systemic
- (iii) Anthoceros is an example of.  
(a) Mosses (b) Liverworts  
(c) Horseworts (d) Fungi
- (iv) Leaf tendrils are found in.  
(a) Pea (b) barberry  
(c) Bladder worts (d) Venus fly
- (v) Which has siroting power of regeneration.  
(a) Sea urchin (b) Starfish  
(c) Brittle star (d) Sea cucumber.
- (vi) Each precavel is formed by the union of :  
(a) Two vein (b) three vein  
(c) four vein (d) no vein
- (vii) The distance causing bacteria are called:  
(a) Auto strophes (b) Parasite  
(c) Pathogenic (d) Sapro trophic
- (viii) Maschantia is example of:  
(a) Mosses (b) Liverworts  
(c) Hornworts (d) Funaria
- (ix) Which is botton dweller:  
(a) Sea urchin (b) Star fish  
(c) Sponges (d) Hydra
- (x) Gestation period in mice is:  
(a) 21 days (b) 30 days  
(c) 36 days (d) 60 days
- (xi) The essential amino acids for man are:  
(a) 20 (b) 15 (c) 10 (d) 15
- (xii) In plants the gametophytes produces egg and sperms by:  
(a) mitosis (b) meiosis  
(c) spore formation (d) fertilization
- (xiii) Pick out the X-linked reacssine trait:  
(a) Haemophilia (b) maleness  
(c) Sickle cell anaemia (d) diabetes

- (xiv) Who secretes human factor VIII in her milk:  
 (a) Nancy (b) Ethal (c) Kajli (d) Neeli-Ravi
- (xv) A community and its biotic environment constitutes a :  
 (a) biosphere (b) habitual  
 (c) Eco-system (d) food web
- (xvi) Rotation and forward movement of Euglena is mostly due to:  
 (a) cilia (b) glagella (c) cilium (d) flagellum
- (xvii) Which organism moves by means of pseudopodia:  
 (a) paramecium (b) euglena (c) amoeba (d) volvox

**(c). Fill in the blanks with correct word.**

**4**

- (i) A lamb was brought to the \_\_\_\_\_ (altar, alter)  
 (ii) He cannot come to school \_\_\_\_\_ to his illness. (dew, due)  
 (iii) Do not sit \_\_\_\_\_ (idol, idle)  
 (iv) He is too \_\_\_\_\_ to walk. (weak, week)

**(d). Choose the correct answer.**

**4**

- (i) He was writing a letter.  
 (a) A letter was written by him (b) A letter was writing by him  
 (c) A letter was being written by him (d) A letter had been written by him
- (ii) The doctor asked him to stay in bed.  
 (a) He was asked by the doctor to stay in bed  
 (b) To stay in the bed was asked by the doctor to him  
 (c) He had been asked by the doctor to stay in bed  
 (d) He had asked by the doctor to stay in bed
- (iii) Open the door  
 (a) The door was being opened by (b) Let the door be opened  
 (c) The door is opened (d) The door was opened

**(e). Choose the correct answer. (Re arranging)**

**4**

- (i) (a) Faithful not am I (b) Not faithful I am  
 (c) I am not faithful (d) I am faithful not
- (ii) (a) Many ways us serve in animals  
 (b) Animals is us serve may ways  
 (c) He was given a gold medal by board  
 (d) He is given a gold medal by board
- (iii) (a) he had gone before I came (b) He had gone came I before  
 (c) he had before gone I came (d) I came he had before gone
- (iv) (a) How were tall trees those (b) How were tall those trees  
 (c) How were those trees tall (d) How tall those trees were

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**SUBJECTIVE**

**Time: 2:10Hours**

**Marks: 68**

**Q.No.1. Write short answers of any twenty-two of the following. (22x2)=44**

- (i) Define Ecology?
- (ii) What is meant by homologous chromosomes?
- (iii) What are denitrifying bacteria?
- (iv) How snake smell his prey?
- (v) How sound is produced?
- (vi) What are the symptoms of cancer?
- (vii) What is mesmeric segmentation?
- (viii) What is a seed?
- (ix) What is a scientific principle?
- (x) What is portholes?
- (xi) What is metamorphosis?
- (xii) Write four harmful chemical found in cigarette smoke.
- (xiii) What is genetic engineering?
- (xiv) How bryophytes absorb water and minerals?
- (xv) What is pollination?
- (xvi) What is oxygen debt?
- (xvii) What is osmosis?
- (xviii) What is gynoecium.
- (xix) What is light reaction?
- (xx) What are plasmids?
- (xxi) What is variegated leaf?
- (xxii) What are growth regulators?
- (xxiii) What is seullellum?
- (xxiv) Define paruienogenesis?
- (xxv) Define linkage?
- (xxvi) What are transgenic plants and animals?
- (xxvii) Define discontinuous variation?
- (xxviii) What is convergent evolution?
- (xxix) Differentiate between intra specific competition and inter specific competition?
- (xxx) Define symbiosis?
- (xxxi) What is kidney transplant?
- (xxxii) What is timue fluid?

**Q.No.2. Write answers of any three questions. (8x3)=24**

- (1) (a) What are basis and aims of classification? 5  
(b) Write a note on thallophytes 3
- (2) What conditions are necessary for photosynthesis 8
- (3) Explain light and dark reactions. 8
- (4) Define Antagonism. Explain it by giving examples of biceps of triceps. 8
- (5) Write note on the following. 4+4  
(a) Colourblindness  
(b) Punnet square.

