

**Biological Science - Model Paper 1**  
**General Science Paper - II**

*Time: 2½ Hrs.*

*Max. Marks: 50*

**Part - A**

**Time: 2 hrs**

**Marks: 35**

**SECTION – 1 ( 4 x 1 = 4 Marks )**

**NOTE: Answer any four Questions from the following.**

- 1) Write the role of Hydrochloric acid in the stomach
- 2) How can trachea protected from collapse
- 3) Mention the parts which are present in lymph and veins not in arteries
- 4) Draw the diagram of sensory neuron
- 5) Show parts those involved in reflex arch in a flow chart
- 6) What is Malthus theory ?

**SECTION - II (5 x 2 = 10 Marks)**

**NOTE: Answer any five questions time from the following choosing at least TWO from each Group A and B.**

**GROUP - A**

- 7) 'There is a relation between Transpiration and rain ' do you support the statement . Explain
- 8) Plants perform photosynthesis in day time and respiration at night time said Ravi . Do you accept ravi 's statement.
- 9) What happens if there is know Epiglottis and diaphragm in respiratory system,
- 10) What food habits do you alter after reading the lesson Nutrition ?

**GROUP - B**

- 11) Humans body is called moving fossils museum . why?
- 12) How sperm is adapted to its function ?
- 13) Write four slogans to conduct a rally on protection of environmental awareness in public
- 14) write plant hormones and their functions

**SECTION - III (4 x 4 = 16 Marks)**

**NOTE: Answer any FOUR Questions from the following choosing at last TWO from A group & B Group**

**GROUP-A**

- 15) Write the valves their location and functions present in human heart
- 16) If you are supplied with hydrilla plant, Beaker, funnel and test tube , which life process can you Prove ? write the procedure and observations
- 17) Write the procedure of fertilisation in plants
- 18) Answer the following questions
  - a) Write the septums between auricles and ventricles
  - b) Write the positions of valves between auricles and ventricles
  - c) Write the arteries which bring blood to the heart
  - d) Which type of blood flows in pulmonary artery and pulmonary vein

**GROUP-B**

- 19) Write the differences between mitosis and meiosis
- 20) Write the reason of the following
  - (a) We can feel the taste better when we press our tongue towards palette
  - (b) We feel hungry when low levels of glucose

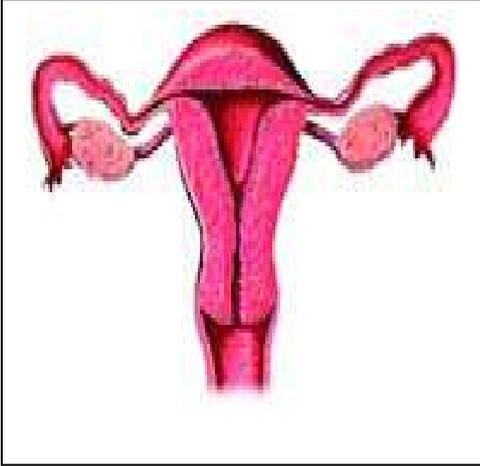
- (c) Pyloric splinter present between stomach and duodenum  
(d) Small intestine is coiled pipe like structure.
- 21) A scientist planned hybridise pure tall plant (YY) with pure dwarf plant(yy).which type of plants he will get F1 and F2 generations. Write the genotype ratio drawing flow chart
- 22) The Forest area reducing day by day on earth. What solutions do you suggest

**SECTION IV ( 5 x 1 = 5 Marks )**

**Note: Answer any ONE Question from the following**

**2. This Question carries five marks**

- 23) Answer the following questions observing given diagram



- (a) which human system this diagram shows  
(b) label any two parts of the diagram  
(c) which part prepare beautifully for fetus  
(d) In which part fertilization takes place  
(e) write the part which is missed in this diagram

- 24 Draw the labeled diagram of the internal structure of leaf .

Write the function of xylem and phloem

Biological Science  
General Science Paper - II

PART – B

30 Minutes

Marks: 15

I Write Capital letter showing the correct answer for the following questions in the brackets 10 x 1/2 = 30

- 1 Stomach is protected by hydrochloric Acid effect ( )  
A) mucus B) stomach walls C) enzymes D) hormones
- 2 The food material digested by emulsification ( )  
A) proteins B) carbohydrates C) fats D) minerals
- 3 Cutaneous reparation occurred in ( )  
A) humans B) birds C) earthworm D) fishes
- 4) Reading that shows high blood pressure ( )  
A) 120/80 B) 100/60 C) 160/100 D) 110/80
- 5 ) Organism that perform single circuit blood circulation ( )  
A) fish B) rabbit C) cockroach D) crow
- 6 ) Device invented by Reni Lennik ( )  
A) periscope B) stethoscope C) periscope D) kelidioscope
- 7 ) Amber colour of urine due to the presence ( )  
A)urochrome B) hiparin C) cytochrome D) chlorophyll
- 8) Nerve cell which has largest axon present in ( )  
A)shoulder B) leg C) hand D) brain
- 9) Number of nerves present peripheral nervous system ( )  
A) 12pairs B) 31 pairs C) 43pairs D) 33pairs
- 10 ) In which type cell division 4 daughter cells formed ( )  
A) Meiosis B) mitosis C) binary fission D) sporulation
- 11 ) mastication occurred in ( )  
A) stomach B) duodenum C) pharynx D) mouth
- 12 ) In pea plant after F2 generation the phenotype ratio is ( )  
A) 3;1 B)1;3 C) 1;1;2 D) 1;2;2
- 13 ) Element causes the disease called MINNIMITA ( )  
A) led B) mercury C) manganese D) radium
- 14) The endocranegland present on human kidney ( )  
A) Thyroid B) testis C) pituitary D) adrenal
- 15 ) Example for Artificial ecosystem ( )  
A) river B) lake C) Aquarium D) Pond
- 16 )  The reproductive method shown in the diagram ( )  
A) Budding B) binory fission C) regeneration D) fission
- 17 ) The Environmental activist that related to the Tree KHEJREEM ( )  
A) Sundarlal bahuguna B) Amrutadevi C) medha patkar D) anna chandi
- 18 ) Purpose of percolation Tank ( )  
A) Flood controle B) increase of ground water C) irrigation D) forest conservation

- 19 ) AIDS day observed on ( )  
A) January 1st B) November 1st C) October 1st D) December 1st
- 20 )Name of the ship that Charles Darwin travelled around the world ( )  
A) Jigil B) Bigel C) mangal D) Appolo

**II Fill in the Blanks**

- 21) Energy source for ecosystem
- 22) Biodiesel produced from.....plant
- 23 )
- 24) .....method used to confirm the age of fossil
- 25) Ancient man spreads all over the world from.....continent

**III. MATCHING**

**Group A.**

**Group B**

- |                 |                    |
|-----------------|--------------------|
| 26. ESRD        | ( ) A ). Magnesium |
| 27. Sunlight    | ( ) B) Mangroves   |
| 28. Knees       | ( ) C) Kidney      |
| 29. Chlorophyll | ( ) D ) Coal       |
| 30 Fossil fuel  | ( ) E.) D Vitamin  |
|                 | F ) E Vitamin      |