Biological Science - Model Paper 2 General Science Paper - II

Time: 21/2 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) After reading this lesson Respiration what precautions you would suggest to your elders

about edema

- 2) Phloem is a food source for some animals. How can you justify this statement?
- 3) Blood that flows from stomach to go heart via liver why?
- 4) Why do fish and frog produce a huge number of eggs each year?
- 5) How do scientists utilize the information about fossils?
- 6) What would be the consequences if there is no meiosis in organisms?

SECTION – II $(5 \times 2 = 10 \text{ Marks})$

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

GROUP – A

- 7) Write the functions of placenta and amniotic sac
- 8) Differentiate between bolus and Chime
- 9) What Questions do you ask the doctor to know the Contagious means to got HIV? write them
- 10) what are nutrition deficiency diseases ? write their symptoms

GROUP – B

11) One experimenter cut the tails of parent rats, what could be the traits in off springs? Who is? That scientist .what is your interpretation?





- 12) what the above logos represents
- 13) what do pyramids and food chain indicates in an ecosystem
- 14) Write different steps in 'Interphase' and Write what happens in this phases ?

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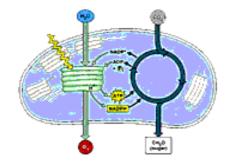
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SECTION – III $(4 \times 4 = 16 \text{ Marks})$

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

GROUP-A

- 15) What is the pathway taken by air in the respiratory system? Illustrate with a flow chart.
- 16) Observe the following diagram and write a note on light dependent, light independent reactions.



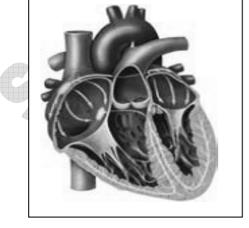
- 17) Write the evolution of transport system from unicellular to mammals.
- 18). Write the answers by observing the experiment performed at your school..
 - i) Why the potted plant was kept in dark room for week days prior to the experiment?
 - ii) Why do you keep KOH pellets in the glass jar?
 - iii) What results do you get when you perform this experiment in shade?
 - iv) What apparatus you used to perform this experiment?

GROUP-B

- **19**) How can you justify the enteric nervous system as the second brain of the gut?(
- 20) What are the advantages of sexual vegetative propagation ?
- 21) Natural resources are decreasing more rapidly. Guess what will the consequences?
- 22) Appreciate the role of stomach in digestive system

SECTION IV (5 x 1 = 5 Marks) Note:. Answer any ONE Question from the following 2. This Question carries five marks

23) Identify the following diagram and label the parts given bellow in the diagram



- (1) Superior ven cova 2) inferior ven cova
- (3) Pulmonary artery (4
 - (4) pulmonary vein
 - (6) left ventricle
- (7) Right arum

(5) Right ventricle

- ght arum
- 8) left atrium

24) Draw labeled diagram of plant fertilization. Explain about double fertilization

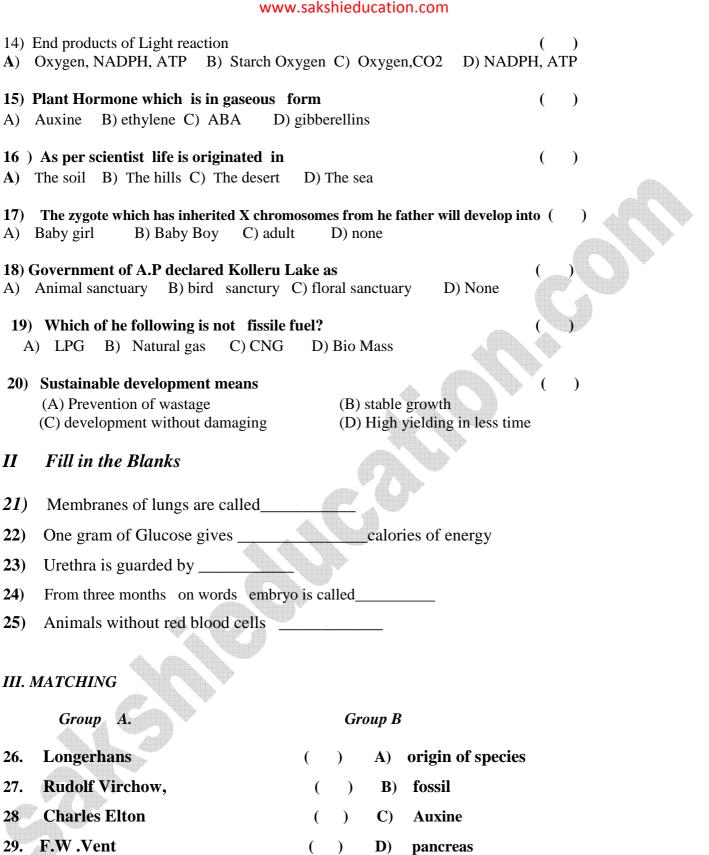
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PART – B **30 Minutes** Marks: 15 I Write Capital letter showing the correct answer for the following questions in the brackets $20 \times 1/2 = 10$ 1 Lenticels are the respiratory organs exist in _____ () A) Root B) stem C) leaf D) flower **2** Observe the below statement) a) Chloroplast converts simple inorganic substances into complex organic substances. b) Light energy is used in the above reaction (A) a, b correct (B) a correct, b False (C) b correct, a False (D) both a, b False. **3** Digestion of PROTEINS begins in which of the following human organs? (A) Small intestines B) colon C) mouth D) stomach Percolation tanks helps to 4. (A) Supply water for agriculture (B) increase ground water level (D) prevent overflow of water from tanks during rainy season (C) preserve rain water 5) Contraception means) (A) Preventing fertilization women B) preventing ovulation women C) Preventing maturation women D) none of the above 6) Plants absorb soil water through roots by the process () A) osmosis .B) diffusion C) Reverse osmosis D) transpiration 7) Why are egg cells larger than sperm cells? Choose the option you think is right. (A) Egg cells have more cells in them B) Have food store to help growth after fertilization C) Have thicker cell membranes D) Have larger nuclei 8). Chemical regulation of the body involves which system: () A) Lymphatic B) circulatory C) nervous D) endocrine 9) Which of the following is NOT part of a neuron?) A) Synapse B) axon C) Missal bodies D) dendrite **10)** Deficiency of Niacin causes this disease) A) Transpiration B) Respiration C) photosynthesis D) pellagra 11) Pulmonary respiration occurs through) Transpiration B) Respiration C) Lungs A) D) reproduction 12) BP means () B) ventricular Pressure C) Lymph Pressure A) Aria pressure D) Blood Pressure in artery 13) This are used in tanning of leather () A) Tannins B) alkaloids C) Gums D) Blood Pressure

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Charles Darwin 30

- E.) Cell division)
 - F) Ecological Pyramid

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