ICSE Board Class IX Biology Sample Paper - 5

Time: 2 hrs Total Marks: 80

General Instructions:

- 1. Answers to this paper must be written on the paper provided separately.
- 2. You will **not** be allowed to write during the first **15** minutes. This time is to be spent in reading the question paper.
- 3. The time given at the head of the paper is the time allotted for writing the answers.
- 4. Attempt all questions from Section I and any four questions from Section II.
- 5. The intended marks of questions or for parts of questions are given in brackets [].

SECTION-I (40 Marks)

Attempt all questions from this section.

Question 1

- (a) Name the following:
 - (i) The slimy secretion of epithelial lining of nasal passage
 - (ii) The opening through which the pollen tube develops.
 - (iii) A liquid connective tissue.
 - (iv) A parasite in the liver of sheep.
 - (v) A step of cellular respiration that occurs in the cytoplasm of the cell

[5]

- **(b)** Find the odd one out:
 - (i) Coughing, Sweat, Sneezing, Diarrhoea
 - (ii) Cell wall, Centrosome, Plastid, Ribosomes
 - (iii) Vegetable peel, Plastic, Discarded CDs, Metals
 - (iv) Cholera, Leprosy, Syphilis, Jaundice
 - (v) Horse, Camel, Rabbit, Platypus

[5]

- **(c)** State whether the following are True or False. Rewrite the correct statement.
 - (i) Ripe tomatoes are red in colour due to the presence of carotene.
 - (ii) In grafting, the plant receiving the bud or the shoot is called the scion.
 - (iii) Antibodies belong to immunoglobulins.
 - (iv) The stigma of China rose is bilobed.
 - (v) Embryo sac consists of eight cells.

(d)	Sele	ect the correct answer from the brackets a	and complete the followir	ng statements:
	(i)	The practice of artificially introducin	g the germs or the ger	rm substance for
		developing resistance is called	(vaccination, immunis	sation)
	(ii)	The housefly transmits germs.	. (rabies, measles, typhoid	l, AIDS)
		is a fat-digesting enzyme. (Li		
		Ribosomes help in (resp		•
		division)	, 1	,
	(v)	The opening through which water er	nters into a seed is call	led the .
	()	(micropyle, hilum)		[5]
		([-]
(e)	Giv	en below is an example of a certain stru	ucture and its special fur	nction. Based on a
		ilar pattern, fill in the given blanks:	1	
		-		
	E.	g. Chloroplast – Photosynthesis		
		(i) Ribosome		
		(ii) Centrosome		
		(iii) Haustoria		
		(iv) Epiglottis		
		(v) Glenoid cavity		
				[5]
ſÐ	Stat	te two differences for each of the followin	ισ nairs	
		Prokaryotic and eukaryotic cell	ig pairs.	
		Respiration and breathing		
		Parenchyma and sclerenchyma		
		Striated and unstriated muscles		
		Antiseptics and Disinfectants		ובו
	(v)	Antiseptics and Distinectants		[5]
(g)	Stat	te the functions of each of the following:		
	(i)	Larynx		
	(ii)	Sebum		
	(iii)	Apical meristem		
		Endosperm		
		Antibody		[5]
	. ,	,		r- 1

(h) Complete the table:

Name of the disease	Causative agent	Preventive method
Filaria		
Pneumonia		
Typhoid		
Tuberculosis		
Gonorrhoea		

SECTION-II (40 Marks)

Attempt any four questions from this section.

Question 2

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- (i) Draw a diagram showing the germination of a bean seed.
- (ii) What is binomial nomenclature? What is the scientific name for human beings?[5]

(b)

- (i) State three adaptations of flowers which favour cross-pollination.
- (ii) State two differences between stomata and lenticels.

[5]

Question 3

(a)

- (i) Name the causative agent and symptoms of the following diseases:
 - 1. Amoebiasis
 - 2. Whooping cough
 - 3. Polio
- (ii) Describe the role of the diaphragm in breathing.

[5]

(b)

- (i) Explain the methods of food preservation.
- (ii) State two characteristics of Phylum Coelenterata.

Question 4

- (a) Name one enzyme which converts each of the following:
 - 1. Fats into fatty acids
 - 2. Starch into maltose
 - 3. Lactose into glucose
 - 4. Trypsinogen into trypsin
 - 5. Emulsifies fats into fatty acids and glycerol

[5]

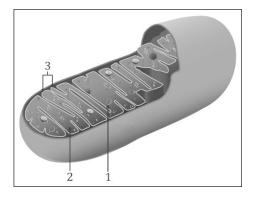
(b)

- (i) Give some uses of antibiotics.
- (ii) Distinguish between an earthworm and a roundworm.

[5]

Question 5

(a) The given figure shows the structure of an organelle. Study the figure carefully and answer the questions based on it.



- (i) Name the organelle.
- (ii) Label parts 1-3
- (iii) Mention one function of the above organelle.

[5]

- **(b)** Answer in one word:
 - (i) The phase of respiration that takes place in the mitochondria.
 - (ii) An oxygen carrier.
 - (iii) A kind of respiration that takes place in the absence of oxygen.
 - (iv) Gynoecium with more than one carpel that is free.
 - (v) Cells present in the inner lining of the respiratory passage.

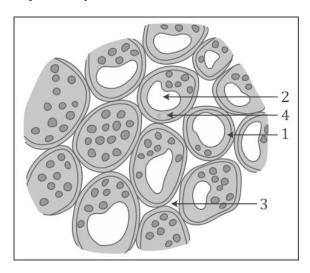
Question 6

(a)

- (i) Give any three differences between squamous epithelium and stratified squamous epithelium.
- (ii) What is the basis of principle of immunisation?

[5]

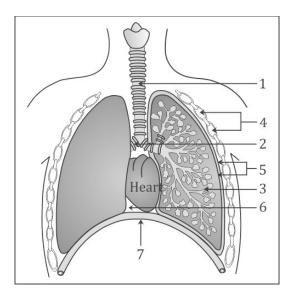
(b) The given figure shows parenchyma tissue.



- (i) Identify parts 1 4.
- (ii) Describe the cells of this tissue.
- (iii) Where is the above tissue found?
- (iv) State any function.

Question 7

(a) The given diagram represents the organs of the human thorax.



1: Trachea, 2: Bronchiole, 3: Bronchus, 4: Rib, 5: Pleural membrane, 6: Thoracic cavity, 7: Diaphragm

Study the diagram carefully and answer the following questions:

- (i) What are the functions of parts 1, 5 and 7?
- (ii) Why should the lining of alveoli be moist?
- (iii) What is the position of the diaphragm at the time of inspiration and expiration?[5]
- **(b)** Draw a well labelled diagram of a knee joint.