

VIBGYOR HIGH

Second Term Examination AY 2019-2020 BIOLOGY

Grade: VIII Max. Marks : 80

Date : 26 /03/2020 Time Allowed: 2 hour

INSTRUCTIONS:

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

SECTION I (40 marks) Attempt all questions from this section.

Question 1.			[5]
a)		Name the following.	
	i.	Group of nectar secreting cells in a flower.	[1]
	ii.	Region of axis below the cotyledons.	[1]
	iii.	A common phase in both aerobic and anaerobic respiration.	[1]
	iv.	Compound formed by combination of carbon dioxide with haemoglobin.	[1]
	٧.	Type of asexual reproduction seen in Amoeba.	[1]
b)		State True or False and correct the false statement by changing the first/last word only.	[5]
	i.	Stamens of Petunia flower are polyadelphous.	[1]
	ii.	Self-pollination occurs when anther and stigma of a flower mature at the	
	11.	same time.	[1]
	iii.	Coleorhiza is the protective covering of the radicle in maize grain.	[1]
	iv.	End product of anaerobic respiration in plants is lactic acid.	[1]
	٧.	Scavengers feed on dead animal and plant material.	[1]



c)	1. 2. 3. 4. 5.	Match the columns. Ovule Carbolic acid Lungs Trachea Sperm	i) Fallopian tube ii) C- shaped ring iii) Absorbs oxyg iv) Seed v)Thoracic cavit vi)Testes vii) Prevent bact	gs en y	[5] [1] [1] [1] [1]
d)	i. ii. iii. iv. v.	Choose the odd one out. Dahlia, Sweet pea, Maize, China Seed coat, Coleorhiza, Embryo, C Stomata, Lenticels, Petals, Root s Cowper's gland, Uterus, Seminal Plants, Microorganism, Animals, S	Coleoptile surface. vesicles, Prostate	e gland.	[5] [1] [1] [1] [1]
е)		Observe the diagram and answ	er the questions	that follow.	[5]
	i. ii. iii. iv.	Name the above structure shown flower on which the above structu Label 1, 3, 4 and 5. What is the function of the part labelled What happens to the part labelled	re is found at this pelled 4?	stage.	[1] [2] [1] [1]
f)	i. ii. iii. iv. v.	Choose the correct alternative of Transfer of pollen from the anther plant is known as (geitonogamy / Chemical used to absorb oxygen The entrance to the trachea is guaranteed to the sperm and the egg fuse to for Lichens provide a good example of the correct alternative of the correct altern	to stigma of anot autogamy). is (soda lime / py arded by (epiglott rm (embryo / zygo	her flower of the same rogallic acid). is / pharynx). ote).	[5] [1] [1] [1] [1]
g)	i. ii. iii. iv. v.	Rearrange and rewrite in a logic Ovary, Style, Stigma, Anther, Poll Cotyledons pushed above the gro coat bursts, Hypocotyl elongates. Pyruvate, 38 ATP, Krebs cycle, G Implantation, Fertilisation, Gestati Snake, Plant, Peacock, Rat.	en sac. und, Radicle grov lycolysis		[5] [1] [1] [1] [1]



h)		State the function of the following:	[5]
-	i	Corolla	[1]
	ii	Egg cell	[1]
	iii	Cotyledons	[1]
	iv	Pleural fluid	[1]
	V	Prostate gland	[1]

SECTION II (40 marks) Attempt any four questions from this section

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Ques	tion	2.	
a)		Study the diagram and answer the questions that follow.	[5]
		AIR SUCTION PUMP SODA LIME LIMEWATER	
	i.	What is the function of soda lime in the given setup?	[1]
	ii.	Why is lime water placed in bottle 'A'?	[1]
	iii.	What change will you expect to observe in bottle 'B'?	[1]
	iv.	Name the physiological process being studied through the setup and give the chemical equation for the process.	[2]
b)		Differentiate between the following pairs on the basis of what is	[5]
	i.	given in the bracket. Staminate flower and pictillate flower (Parts of floral structure)	[1]
	i. İİ.	Staminate flower and pistillate flower (Parts of floral structure) Epigeal germination and hypogeal germination (Location of cotyledons)	[1]
	iii.	Aerobic respiration and anaerobic respiration (ATP released)	[1]
	iv.	Inspiration and Expiration (Shape of diaphragm)	[1]
	۱۷. V.	Sexual and asexual reproduction.(Creation of offspring)	[1] [1]
	٧.	Sexual and asexual reproduction.(Creation of onspring)	נין
	tion		
a)		Answer the following questions.	[5]
	i.	What are monoecious plants?	[1]
	ii.	State how temperature affects the germination of a seed.	[1]
	iii.	How is the respiratory passage kept free of dust particles?	[1]
	IV.	Why do the testes lie outside the abdomen in the scrotum?	[1]
	V.	Define the term flora and fauna of an ecosystem.	[1]
b)		Briefly answer the following questions.	[5]
	i.	Name and explain the role of two abiotic components in an ecosystem.	[2]
	ii.	Why does a person feel breathlessness at higher altitudes.	[2]
	iii.	Define diadelphous condition. Give one example.	[1]



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Ques a)	tion 4	Study the diagram and answer the questions that follow.	[5]
		3-4	
	i. ii.	Label parts 1,2,3,4	[2]
	ıı. iii.	Give the function of plumule and radicle in a seed. What is the role of micropyle in germination of seed?	[1] [1]
	iv.	What type of seed is depicted in the diagram?	[1]
b)		Draw a neat well labelled diagram of a bisexual flower and answer the questions that follow.	[5]
			[3]
	i. ii.	Define placentation. Why are the Ray florets of Sunflower called neuter flowers?	[1] [1]
Ques	tion (
a)		Study the diagram and answer the questions that follow.	[5]
	i. ::	Give the function of the part labelled 'A'.	[1]
	ii. iii.	Name the part where fertilization occurs. Give the function of the part labelled 'B'.	[1] [1]
	iv.	Define gestation. How long does it last for in humans?	[2]
b)	i. ii. iii. iv. v.	Explain the terms. Ornithophily Epicotyl Catabolism Budding Parasitism	[5] [1] [1] [1] [1]

Question 6

a)		Give biological term :	[5
	i.	The protective coverings of the ovules.	[1
	ii	The outermost layer of endosperm in maize grain	[1



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	iii.	The setup in which the condition under study is missing.	[1]
	iv.	The process of generating lost parts	[1]
	٧.	Organisms that obtain nutrition by absorbing nutrients from dead organic	[1]
	v.	matter.	נין
b)		Draw a neat well labelled diagram of a human sperm and answer the	[5]
		following questions.	[2]
	i.	What is the location and function of the seminal vesicles?	[2]
	ii.	Why is it important that a very large number of sperms should be present	[1]
		in the semen	
Ques	stion	7.	
a)		Study the diagram given below and answer the questions that	[5]
		follow.	
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		(5)//0//	
		4 6	
		2	
	i.	Label the parts numbered 1-4.	[2]
	ii.	What do the arrows 5 and 6 indicate?	[1]
	iii.	Name the organ where the above process occurs?	[1]
	iv.	Name the process by which gaseous exchange occurs in this part.	[1]
b)		Give reason for the following	[5]
	i.	Stigma is covered with hair or glandular papillae	[1]
	ii.	Seeds sown very deep in soil fail to germinate.	[1]
	iii.	In experiments on respiration in green plants, the jar is covered with a	[1]
		black cloth.	
	iv.	Gaseous exchange continue in the lungs even during expiration.	[1]
	٧.	No ecosystem can survive without light.	[1]

