

SUMMATIVE ASSESSMENT- I- 2017 - 2018**BIOLOGICAL SCIENCE - PAPER-II****(English Medium)****PART - A & B****(Max. Marks : 40)****Class : X****Time : 2.45 Hrs.****Instructions :**

1. 15 Minutes are allotted for reading the question paper (Part A &B) in addition to 2.30 hours for writing the answers.
2. Part - A answers should be written in a separate answer book.
3. There are three Sections in Part - A.
4. Answer all the questions.
5. Every answer should be visible and legible.
6. There is internal choice in Section - III.
7. Part-A & B should be given at the beginning of the exam only.

Part - A Marks : 30**SECTION - I****Note : 1. Answer all questions.****2. Each question carries 1 Mark. $4 \times 1 = 4$**

1. 'X' activates 'Y' in stomach to digest proteins. What are X and Y?
2. What would happen if aerial roots were absent in mangroove plants?
3. Which plants will you use when hydrilla is not available in your area to prove O_2 is liberated in Photosynthesis?
4. How does amoeba excrete waste products?

SECTION - II**Note : 1. Answer all questions.****2. Each question carries 2 Marks. $5 \times 2 = 10$**

5. How do plants transport nutrients and water throughout its body?
6. Sujata asked a few questions to a pulmonologist about Lungs and their health - Make a guess about what she had asked and list them out?

7. Read the following Paragraph.

Eating of food that does not have one or more than one nutrients in required amount is known as malnutrition. Poor health, willful starvation, lack of awareness of nutritional habits, socio economic factors are all the reasons for malnutrition in our country.

Now answer the following questions.

- a) How many types of malnutritions are found in India ?
 b) What steps will you take to keep away from obesity ?
8. Fill the following table.

S.No	Name of the Organism	Organs that help in respiration
1.	cockroach	_____
2.	_____	Body Surface through Diffusion
3.	Aquatic animals	_____
4.	_____	Lungs, Skin

9. You wish to conduct world Heart Day in your School . Prepare any two slogans to write on placards.

SECTION - III

Note : 1. Answer all questions.

2. Answer any one from internal choice of each question.

3. Each question carries 4 marks.

4 x 4 = 16

10. Write differences between Respiration that takes place in presence and absence of Oxygen in a table

(OR)

Write a note on mechanism of Urine formation in human beings.

- 11.



- a) Why did you conduct this experiments in your lab?
 b) What is the role of alcohol and iodine in this experiment.
 c) You keep the alcohol filled test tube in hot water beaker but not directly on flame, Why ?
 d) What result will you get if you don't decolourise the leaf in alcohol?

(OR)

Write aim and procedure of the experiment you did with help of, Thermosflask, yeast, sugar solution, Liquid paraffin, Lime water and a thermometer.

12. Observe the table and answer the following questions given under the table

1. Unicellular organism	Amoeba, Euglena, Paramoecium	Movement of Protoplasam
2. Parazoa	Sponge	beating the flagella sea water
3. Cinderia	Hydra, Jelly fish	Gastro Vacular Cavity
4. Platyhelminthes	Fasciolahepatica	Digestive and Excretory System
5. Nemati Hetminthes	Ascaris	Psuedocoelom
6. Annelida	Earth Worm Leech	First Pulsatile Vessel
7. Arthropoda	Cockroach Prawn	Pulsatile Vessel

- What does the table represent (or) tell about?
- In the evolution of transportation in organisms which one do posses first artery and vein like structure?
- Name the organisms that posses first heart like structure?
- What is the difference between transportation in unicellular organism and multicellular orgnaisms ?

(OR)

Read the paragraph carefully.

The soft masticated food mixes with saliva in mouth and moves into oesophagus then stomach, where gastric juice has Hcl activates pepsin to break protein into peptones. Bile juice has salts for emulsification of fats.

Amylase is secreted by pancreas which has pancreatic Juice to convert carbohydrates into maltose. It also secretes trypsin and Lipase to digest proteins and fats. The complete digestion takes place in small intestine where peptidase and sucrase turns peptone to amino acids and sucrose to Glucose.

Now make a table to explain Digestive enzymes and their action on food in the following table.

S.No	Enzyme	Secreted by	Secreted into	Digestive Juice	Acts on	Products
1						
2						
3						
4						

13. You know that plants get water through root hairs. Draw a neat labelled diagram for it.

(or)

Draw a neat labelled diagram of chloroplast and answer the questions below

a) what is the function of this organelle?

b) In which tissue you find it more?



Regd.No.

61-B

Marks:

SUMMATIVE ASSESSMENT- I- 2017 - 2018**BIOLOGICAL SCIENCE - PAPER-II****(English Medium)****PART - B**

Class : X

(Max. Marks : 10)

Time : 30Min

Academic standard	AS ₁					AS ₂			AS ₃		AS ₄		AS ₅		Total	Grade	
	1	4	5	8	10	14-25	2	6	26-27	3	11	28-29	7	12			13
Q.No's																	
Marks																	
Total																	

Name of the Student :

Thoma Snehalatha

Roll No.:

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Instructions :

1. Answer all the questions in Part - B.
2. Each question has 4 options A, B, C or D. Write the capital letter indicating the answer in the given brackets.
3. Marks will not be awarded for over writing answers.

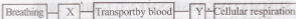
SECTION - IV

Note : 1. Answer all questions.

2. Each question carries $\frac{1}{2}$ Mark.20 x $\frac{1}{2}$ = 10

14. When dodder seed germinates it forms (i) and then develops (ii) to obtain food from its host, (i) and (ii) respectively are (D)
 A) Host, guest B) Anchoring root, Haustoria
 C) Haustoria, Anchoring root D) roots, leaves
15. The Juice that has no enzyme is (B)
 A) Pancreatic B) Gastric C) Bile D) Intestines
16. Read the following statements (A)
 i) Vomiting is the body's method of ridding unwanted or harmful substances from the stomach.
 ii.) Vomiting is due to reverse peristalsis of stomach and oesophagus
 A) Both are true B) Both are false C) (i) is true D) only (ii) is true

17. Fill the table.



- A) X - Lungs, Y - Tissues
 B) X - Gas exchange in lungs, Y - Gas exchange in heart
 C) X - Gas exchange in Nose, Y - Gas exchange in lungs
 D) X - Gas exchange in lung level, Y - Gas exchange in tissue level

18. Find the correct one

- A) Men - Diaphragm, Women - Ribs
 B) Women Diaphragm, Mens - Ribs
 C) Men - Both Diaphragm and ribs
 D) None of these

19. Match the following:

1. Lactic acid + Energy (ii) (i) plants and animals
 2. Ethanol + CO₂ + Energy (iii) (ii) Bacteria
 3. Co₂ + H₂O + Energy (i) (iii) Yeast
 A) i, ii, iii B) iii, ii, i C) ii, iii, i D) iii, i, ii

20. During cellular respiration energy is released and stored in the form of

- A) ATP B) Mitochondria C) Lungs D) CO₂

21. If Photosynthesis is to chloroplast then respiration is to

- A) Lungs B) Mitochondria C) roots D) Nucleus

22. The correct order in urine formation is

- (i) Concentration of Urine (i) Glomerular filtration
 (iii) Tubular secretion (iv) Tubular reabsorption

- A) ii, iv, iii, i B) iv, iii, i, ii C) ii, i, iii, iv D) all of these

23. Find the correct statement from the following

- A. Chlorophyll contains Mn molecule
 B. Haemoglobin contain Zn molecule
 C. Bile contains No Salts
 D. Yeast respire even in absence of O₂

24. Find the mis match ()
- A) Lactic acid - Strenuous exercise.
- B) Epiglottis - Prevents food entering into wind pipe
- ~~C) Excretion - Provides energy~~
- D) Nutrition- Intake of Nutrients
25. The main difference between burning and respiration is ()
- i) respiration is a slow process
- ii) Combustion combines only with carbon & oxygen
- iii) Respiration occurs only in animals
- iv) Combustion occurs in both animals and plants
- A) i, iii B) iii, iv C) ii, iv ~~D) i, ii~~
26. If the rate of respiration becomes more than the rate of photosynthesis then ()
- A) The plant will grow rapidly
- B) The growth of the plant will be slow
- C) The plant would die after some time
- ~~D) Both B and C are correct~~
27. If the pulmonary veins are blocked then (D)
- A) left atria will be empty
- B) Lungs will be oozed out with blood
- C) There will be immediate Cardiac arrest
- ~~D) all of these~~
28. While conducting an experiment of anaerobic respiration Sujatha added diazene green to glucose solution. The purpose of doing this is ()
- ~~A) To confirm presence of O_2 .~~ B) To confirm presence of CO_2
- C) To confirm both O_2 and CO_2 D) None of these

29.



When Ritwik cut and removed a ring of bark from a plant, he observed that there is some growth on the upper part of the cut portion. This proves that

- ()
- A) Xylem conducts water B) Bark has no role to play in growth
 C) Phloem conducts sugars D) Both Xylem and Phloem conducts sugar.
30. The slogan of 'chipko' movement is to ()
- A) Save Plants in Himalaya region
 B) Save water in Narmada river
 C) Stop establishment of power plants
 D) All of these
31. The best way to keep away from dust allergy permanently is (B)
- A) Keep watering on dust B) Plantation in Dry lands
 C) Wear Helmets D) Wear dust masks on Nose and face
32. The use of sphygmomono meter is (B)
- A) To measure root pressure, B) To measure blood pressure
 C) To measure pulse rate D) To measure temperature
33. Sujata is suffering from Bone related problem what food will you suggest among the following ()
- i) Morning Sun ray ii) Citrus fruits
 iii) cod and Shark liver oil iv) Sweet potatoes
- A) i, ii B) i, iv C) i, iii D) all of these