

SUMMATIVE ASSESSMENT - I - 2016 - 2017.

GENERAL SCIENCE - Paper - II

(Biological Science)

(English Medium)

PART - A & B

(Max. Marks : 40)

[Time : 2.45 Mts.

Class : X]

Marks : 30]

Part - A

Instructions :

- i) This question paper contains Part - A and Part - B.
- ii) Part - A answers should write in answer paper and part B answers in the bit paper itself and attached it to the answer booklet of Part - A.
- iii) 15 Minutes time is allotted exclusively for reading the question paper and 2.30 hr. for writing answers.
- iv) Answer all the questions. Internal choice is only in section - III.

SECTION - I

Note : i) Answer all the questions.

ii) Each question carries One mark.

4 x 1 = 4

1. We are aware that plants absorb Nutrients from soil through roots. Which part absorbs Nutrients in Cuscuta plant.
2. What will happen if absence of valves in Heart.
3. What observations you made while conducting the experiments with yeast ?
4. Write the advantages of by-products of plants in our daily life.

SECTION - II

Note : i) Answer all the questions in 3 - 4 sentences.

ii) Each question carries Two marks.

5 x 2 = 10

5. 'A' is the largest artery, which starts from heart. It supplies blood to all parts of the body. 'B' is the smallest artery, which carries blood from heart to lungs.

Now answer the questions.

1. Write the names of A & B
2. Which type of blood flows in A & B
6. You have learnt that anabolic and Catabolic reactions produce energy in plants. What are those two reactions. Write four differences between these two reactions.

[Turn Over...

7. If you have a chance to meet pulmonologist, what questions you can pose to know about pulmonary diseases.
8. Observe the table given below and analyse the questions.

Name of the Animal	Weight of the body	Weight of the heart	Heart beat p / m
Blue Whale	150000 kgs.	750 kgs.	7
Elephant	3000 kgs.	12 - 21 kgs.	46
Man	60 - 70 kgs.	300 grms.	76
Koaltit	8 grams.	0.15 grms.	1200

1. What is the relation between weight of the body and weight of the heart of an animal.
 2. What is the relation ship between weight of the heart and rate of heart beat ?
9. List some ecofriendly programmes to reduce global warming effects ?

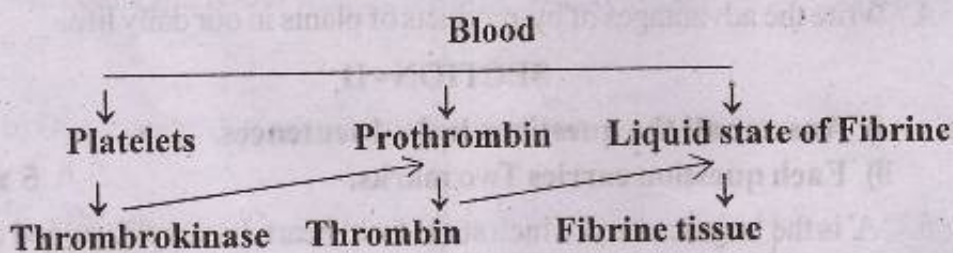
SECTION - III

Note : i) Answer the following questions.

ii) Each question carries Four marks.

4 x 4 = 16

10. a) The following flow chart explains the coagulation of blood in human beings. Explain in detail.



(Or)

- b) Write the differences between the respiration process in the tissues in the presence and obsence of oxigen.
11. a) What materials are required to prove that oxygen is produced during photosynthesis in the presence of light ? What procedure we need to follow to perform the above experiment ?

[Contd...3

b) Observe the below diagram and answer the following questions.

1. What is aim of this experiment.
2. What materials are required for this experiment?
3. Why you are cut the stem for this?
4. What change you observed in glass rod.



12.a) Observe the following table which shows the different places of digestion and the corresponding digestion sections and products.

Sl.No	Name of the gland	Enzymes/ substances secreted	area	Reactive	Products
1	Dizestive glands	Tyaline	buccal cavity	Carbohy- drates	Substances Maltose sugar
2	Stomach	Pepsin	Stomach	proteins	Peptones
3	Liver	Bile	Deodinum	lipids	Lipids emulcifi- cation
4	Pancreas	Amylase	Deodinum	carbohy- drates,	Maltose sugar,
5	Pancreas		Deodinum	proteins	Peptones
6	Deodenal glands(bruner glands)	Lipase	Deodinum	lipids	Fatty acids, glycerin
7	small intestine	Sucrase	small intestine	sucrase	Glucose

Basing on the above information answer the following questions?

1. Write the places where the digestion of carbohydrates takes place?
2. Which enzymes reacts on proteins and what are the products formed?
3. Which glands releases which digestive secretions in the Deodinum?
4. Name the part of digestive tract the glucose produced from food?

[Turn Over...

b) Observe the table.

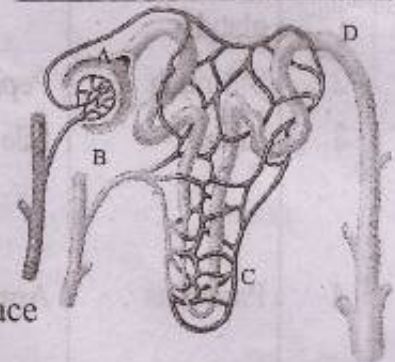
A	B
1. Thyroxin-normal growth	1. Abscicic acid-seed dormancy
2. Testosteron-development of sex organs	2. Citokinin-Sel division , growth of lateral buds
3. Adrenalin-heart beat, enlargement of pupil	3. Ethaline-Ripening of fruits
4. Somatotrophic-growth of bones	4. Gibberlines-Stem degeneration Oxines-cell growth

Basing on the above information answer the following questions:

1. Where did 'A', 'B' hormones produced
2. Which hormones secrets by the body when it is in the state of fear
3. Which hormone is responsible for growth in animals.
4. Which hormones are useful for growth in plants.

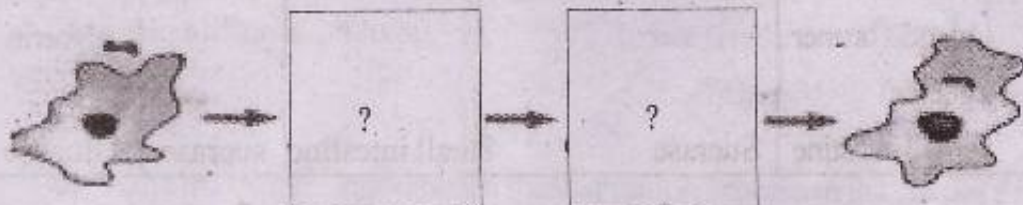
13. Observe the diagram and answer the questions

1. Which body system the diagram relates to
2. Name the part of C & D
3. What is the combine name of B & A
4. Name the B and what is the process takes place



(Or)

b) Observe the diagram. Answer the following questions.



- i) Complete the boxes and redraw the complete diagram in your answer boolet?
- ii) What does it shows ?
- iii) Which part is used for food collection.

