Attempt all questions.

Group 'A'

Write the correct answer in your answer book from the given alternatives.

 $[6 \times 1 = 6]$

- 1. The trachea of human is internally lined by....
 - a. Cuboidal epithelium

- b. Columnar epithelium
- C Pseudostrtified ciliated epithelium
- d. Germinal epithelium

- 2. The egg of frog is
 - a. Telo-lacithal
- b. Homo lacithal
- c. Isolacithal
- d. Centro lacithal

- 3. Which one of the following is viral disese?
 - a. Typhoid
- b. AIDS
- c. Tuberculosis
 - d. Cholera
- 4. Which teeth is not found in deciduous dention
 - a. Incisor
- b.Molar
- .c. premolar
- d Canine
- 5. The respiratory center is located in the
 - a. Pons
- b. Cerebrum
- c. cerebellum
- d. Medulla oblongata
- 6. The duration of one complete heart beat is
 - a. 8 sec.
- b. 0.8 sec
- c. 0.08sec
- d. 80sec

Group B

Short questions: [4x4=16]

Candidates are required to give their answers in their own words as far as practicable. The figure in the margin indicates full marks.

- 7. Describe the process of cleavage in frog.
- 8. State the symptoms of typhoid.
- 9. Describe the process of transport of Oxygen
- 10. Describe the process of Carbohydrate digestion.

OR

Control of measures of AIDS

Group C: Long questions:

- 11. What is drug abuse? State the types of drugs those are used drug addict.
- 12. Describe internal structure of heart. Why human heart is called myogenic? [1+7=8.0]

[7+1=8.0]

Section A: Zoology

Attempt all questions.

Group A

Write the correct answer in your answer book from the given alternatives.

 $[6 \times 1 = 6]$

- 1. Which one the following cell never divide?
 - a. Epithelial cell
- b. Bone cell
- c. Cartilage cell
- d. Neuron

- 2. The cavity of gastrula is called
 - a. Archenteron

- b. Neurocoel c. Balstocoel d. None of above
- 3. Payer's patch is found in
 - a. Ractum
- b. Stomach
- c. Ileum
- d. Jejunam
- The chemical surfactant is secreted by
 - a. Septal cell
- b. TypeI Pnemocyte
- c. Goblet cell
- d. Argentiffin cell
- 5. The left aurculo-ventricular aperture is guarded by

 - a. Haversin Valve b. Semilunar valve c. Mitral valve
- d. Tricuspid valve

- The incubation period of typhoid is
 - a. 12 days
- b. 14 days
- c. 30 days
- d. 24days

Group B

Short questions: [4x4=16]

Candidates are required to give their answers in their own words as far as practicable. The figure in the margin indicates full marks.

- Describe structure and functions of neuron. ~
- . 8. Describe the process of blastulation.
- 9. Mention the symptoms AIDS.
- 10. Describe the structure of lungs of human.

OR

Write short note on valves of heart

Group C: Long questions:

- 11. What is drug addiction? State the causes and symptoms of drug addiction.
- 12. Describe the mechanism of pulmonary ventilation.

[1+7=8.0][8.0]

Radiant Secondary School Bheemdattnagar, Kanchanpur

SET- A FM: 75

Second terminal examination-2081

Time: 3 Hrs

Subject: Biology, Grade XII, Subject Code: 2021

Section A: Botany

Attempt all questions.

Group A

Write the correct answer in your answer book from the given alternatives.

 $[5 \times 1 = 5]$

- 1. The 1st stable product in carbon assimilation is
 - a. PGA
- b. Oxygen
- c. Pyruvic acid
- d. Glucose
- 2. In the Calvin cycle, one molecule of glucose is formed from.......
 - a. 6Co₂+30ATP+12NADPH
- b. 6002+18ATP+12NADPH

c. 6Co₂+12ATP

- d.6Co2+18ATP+30NADPH
- 3. Annual ring is helpful in determining.....
 - a.Lateral growth

- b. Diameter of plants
- c. Secondary growth
- d. Age of plant
- 4. Pollination that takes place by wind is called
 - 1 a Amimophily
- b.Hydrophily
- c. Autogamy
- d. Geitonogamy

- 5. The primary endosperm nucleus is
 - a. Haploid
- b. Diploid
- c. Triploid
- d. Tetrapleid

Group B

Short questions: [4x4= 16]

Candidates are required to give their answers in their own words as far as practicable. The figure in the margin indicates full marks.

- 6. Describe L.S. of ovule with well labeled diagram.
- 7. Describe the process of micro gametogenesis with well labeled diagrams.
- 8. Differentiate between photosynthesis and respiration.
- 9. What is cyclic photophosphorylation? Explain its events.

OR

Write short note on grafting.

Group C

Long questions

- 10. What is microsporogenesis? Describe the process of development of microspores in angiosperms. [1+7=8.0]
- 11. Explain the process of glycolysis in plants

[8.0]

Radiant Secondary School Bheemdattnagar, Kanchanpur SET-B FM: 75

Second terminal examination-2081

Subject: Biology, Grade XII, Subject Code: 2021 Time: 3 Hrs

Section A: Botany

	1100		
Attem	pt all	questions	٠.

Group A

Write the correct answer in your answer book from the given alternatives.

			$5 = 1 \times 6$	
1.	An important product of Kreb'scyc	le is		
	a. Methane b. ATP	c. ADP	d. Water	
2.	In the light phase of photosynthesis	s, there is formation of	••••	
	a. Both ATP & NADPH ₂	b. Carbohydrates		
	. c. ATP	d. NADPH ₂		
3.	Which meristem helps in increasing the girth of the plant?			
	a Primary	b. Intercalary meristem		
	c.rLateral meristem	d. Apical meristem		
4.	Pollination that takes place by insects is called			
	a. Animophily b.Entomophily	c. Autogamy d. Geit	onogamy	
5.	The point of attachment of funicle	with chalazal end is called	•••••	
	a. Hilum b. Placenta	c. Integuments d. Nuc	ellus	

Group B

Short questions: [4x4=16]

Candidates are required to give their answers in their own words as far as practicable. The figure in the margin indicates full marks.

6 Describe the process of fertilization with well labeled diagram.

Describe the process of mega gametogenesis with well labeled diagrams.

8. Differentiate between C₃ and C₄ plants. 2.

9. Describe in brief the process of non-cyclic photophosphorylation.

Differentiate between xylem and phloem.

Group C

Long questions

What is embryogenesis? Describe dicot embryo with well labeled diagrams.

11. Describe various steps of Kreb's cycle. Give the estimates of water, CO2 and formation of ATP. [7+1=8.0]