INTERNATIONAL INDIAN SCHOOL- DAMMAM

I TERMINAL EXAMINATION 2012-2013 XI BIOLOGY

Time- 3 Hours

Max. Marks-70

Student Bounty.com

SET-A

General Instructions:

- I. All questions are compulsory.
- II. The question paper consists of four sections A,B,C,&D. Section A contains 8 questions of 1 mark each, Section B is of 10 questions of 2 marks each, Section C has 9 questions of 3 marks each whereas Section D is of 3 questions of 5 marks each.
- III. There is no overall choice. However, an internal choice has been provided in one question of 2 marks, one question of 3 marks, and all the three questions of 5 marks weightage. A student has to attempt only one of the alternatives in such questions.
- IV. Wherever necessary, the diagrams drawn should be neat and properly labeled.

SECTION-A

1.	Following are the taxonomic categories. Give their hierarchical arrangement in ascending order.	
	Order, Genus, Family, Class, Species, Phylum	1
2.	What are co-enzymes? Give an example.	1
3.	Name the cells in the gastric glands that secrete HCl.	1
4.	What are essential amino acids?	1
5.	In which phase of cell cycle DNA replication takes place?	1
6.	What are prokaryotic cells?	1
7.	Give the balanced over all equation of photosynthesis.	1
8.	Name the respiratory centre found in Pons that is responsible for increasing the breathing rate.	1

SECTION-B

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SECTION-B	ation. 2 2 ur with
9. In what ways the active transportation is different from passive transport	ation. 2
10. Give the schematic representation of cyclic photophosphorylation.	2
11. Both cellulose and starch are polymers of glucose. Starch gives blue colo	
iodine but the cellulose does not give blue color with iodine. Give reason	1. 2
12. Describe the process of digestion of protein in our stomach.	2
13. What is the significance of cell division-Meiosis?	2
 What is binomial nomenclature? Who proposed it? Give the scientific not have fly. 	ame of
15. Draw a neat and labeled diagram of the sectional view of Mitochondrior OR	n.
Draw a neat and labeled diagram of the sectional view of Chloroplast.	2
16. What are Ribosomes? With respect to density and size what is the differ ribosomes of prokaryotic and eukaryotic cells?	ence in the
17. Few gaps are left in the following table indicating the action of pancreat food in the small intestine. Fill the gaps A, B, C, and D.	ic juice on 2
Substrate Enzyme Product Polysaccharides A Disaccharides	
Fats Lipase B	
DNA and RNA C Nucleotides	
Peptones & Proteoses Carboxypeptidase D	
18. Discuss the role of Haemoglobin in the transportation of O_2 and CO_2 .	2
SECTION-C	
19. What are taxonomical aids? Discuss the role of museum as a taxonomical	al aid. 3
20. What is a mesosome in a bacterium? Mention the functions that it perfo	orms. 3
21. What is metabolism? Differentiate between anabolic and catabolic path	ways. 3

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	dent
22. What are the major transport mechanisms for CO ₂ ? Explain.	3
23. How does cytokinesis in plant cells differ from that in animal cells?	3
24. What are accessory photosynthetic pigments? How they are organized in the Grana? Mention their two functions.	StudentBox
25. Give the identifying features of sub-metacentric, acrocentric and telocentric	
chromosomes with the help of labeled diagrams.	3
26. Differentiate between nucleoside and nucleotide. Give one example of each.	3
27. What are the major events take place during anaphase of cell division mitosis? OR	
What are the major events take place in the anaphase I of cell division meiosis?	3
SECTION-D	
28. What is Photorespiration? Describe both the anatomical and biochemical adaptations	
of C ₄ plants that help them to avoid photorespiration.	
OR (a) Describe C_3 pathway or Calvin cycle with the help of diagrammatic representation.	
(b) Explain how CO_2 concentration influences C_3 plants at high light intensities.	5
29. (a) Draw a neat and labeled diagram of human respiratory system.	
(b) Describe the mechanism of normal breathing. OR	
(a) Draw a neat and labeled diagram to show the duct system of Liver, Gall bladder and Pancreas.	
(b) Bile juice contains no digestive enzymes, yet it is important for digestion. Why?	5
30. What are proteins? Describe the primary, secondary, tertiary and quaternary structure of proteins.	
OR	
What are enzymes? Describe the mechanism of enzyme action. In what way the Enzyme catalysts are different from inorganic catalysts?	5

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SET-B

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SECTION-A

	SECTION 7	
-	g are the taxonomic categories. Give their hierarchical arrangement in ng order. Order, Genus, Family, Class, Species, Phylum	1
	the role of Mg^{2^+} in the following reaction? Mg^+ acid+ CoA+ NAD $^+$	1
3. Name th	e cells in the intestinal mucosa that secrete mucous.	1
4. What are	e non-essential amino acids?	1
5. In which	phase of cell cycle DNA replication takes place?	1
6. What are	e eukaryotic cells?	1
7. Give the	balanced over all equation of photosynthesis.	1
	e respiratory centre found in Medulla oblongata that is responsible for ng the breathing rate.	1

SECTION-B

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	delle
SECTION-B	100
What is binomial nomenclature? Who proposed it? Give the scientific name of Mango plant.	Student Bounts Com
10. Give the schematic representation of cyclic photophosphorylation.	2
11. What is the significance of cell division-Meiosis?	2
12. Both cellulose and starch are polymers of glucose. Starch gives blue colour with iodine but the cellulose does not give blue color with iodine. Give reason.	2
13. Describe the process of digestion of protein in our stomach.	2
14. In what ways the active transportation is different from passive transportation.	2
15. Discuss the role of Haemoglobin in the transportation of O_2 and CO_2 .	2
16. Draw a neat and labeled diagram of the sectional view of Mitochondrion. OR	
Draw a neat and labeled diagram of the sectional view of Chloroplast.	2
17. Few gaps are left in the following table indicating the action of pancreatic juice on food in the small intestine. Fill the gaps A, B, C, and D. Substrate Enzyme Product Polysaccharides A Disaccharides Fats Lipase B DNA and RNA C Nucleotides Peptones & Proteoses Carboxypeptidase D	2
18. What are Ribosomes? With respect to density and size what is the difference in the ribosomes of prokaryotic and eukaryotic cells?	2
SECTION-C	
19. What are taxonomical aids? Discuss the role of Zoo Park as a taxonomical aid.	3
20. Differentiate between nucleoside and nucleotide. Give one example of each.	3
21. What are the major transport mechanisms for CO_2 ? Explain.	3

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