المعنى علم السنة - مسوليها الا عن المكل الحديث عن ١٠٠٠

Mansoura University
Faculty of Science
Botany Department
Mansoura - Egypt



جامعة المنصورة كلية العلوم قسم النبات المنصورة - مصر

Final Examination in Botany

Educational Year: 3rd Level

Course(s): Stress Physiology and Biotic Control

Time: 2 hrs. Full Mark: 60

Subject: Botany (B325)

Program: Environmental Sciences

Date: 27/5/2013
Question Mark: 20

Answer the following questions:

Q1: Effect of structural features of stomatal apparatus as biotic factor on stomatal movement under watering and water stress.

Q2: Discuss the effect of chemical stress induced by deficiency of nitrogen, sulfur, silicon, iron and copper on plant growth and metabolism.

Q3: Briefly write on the following:

- a- Physical nature of transpiration.
- b- Active absorption of water by plant root.

Examiners:

Prof. Omar A. El Shahaby

Prof. Afaf Gaber

Mansoura University **Faculty of Science Botany Department** El-Mansoura, Egypt



حامعة المنصورة كلية العلوم قسم النبات المنصورة _ مصر

Final Examination in Botany First Term: Jan. 2013

Educational Year: Third Level

Program (Branch): Biology

Subject: Bot (ES 326)

Course(s): Producing ecosystem and pollen grain Full mark: 60

Date: 3/6/2013 Time: 2 hrs

Question mark: 20

Answer the following questions:

Q1: Write shortly on each of the following

1. Water and nitrogen cycles in ecosystem. (7 marks) 2. How can ecosystems be sustainably managed? (6 marks) (7 marks) 3. Global warming

Q2: Discuss the following sentences:

(5 marks) 1. Services provided by ecosystem 2. How does energy flow in ecosystem? (5 marks) (5 marks) 3. Structure of anther (5 marks) 4. Apertures of pollen grains

Q3: Write short notes on each of the following:

(6 marks) 1) Forms of pollen grains (8 marks) 2) History of palynology (6 marks) 3) Polarity and symmetry of pollen grains

Best wishes

Examiners:

Dr. Yasser El-Amier

Dr. Ahmed Abd El-Gawad

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Mansoura University
Faculty of Science
Zoology Department
Subject: Parasitology ← € 308
Courses' Parasitology ← € 308



Second Term

3rd Level: Chem./Zool. Date: 6-6-2013 الخميس

Time Allowed: 2hr Full Mark: (60)

Answer all Questions: Each Question [20] Mark Illustrate your answer with labeled diagram

1-	Write short	notes on	Two of	the following:
	SALES AND PROPERTY OF THE PROP	AND ASSESSED TO A PROPERTY OF THE PARTY OF T		

- A-Life cycle of Plasmodium Spp.
- B-Life cycle of blood digenea.
- C-Life cycle of Faciola Spp.

2- Try TWO of the following:

- a- Life cycle of Trypanosoma gumbiense.
- b- Life cycle of Ascaris Spp.
- c- Life cycle of Leishmania Spp.

3- Fill the spaces with the correct answers:

- a- According to their habitats, the parasites are divided into -----(1)----- and -----(2)----- while according to their mode of life, the parasites are divided into -----(3)------and -----(4)-----
- b- There are four types of hosts: -----(5)-----, -----(6)-----, ----(7)------ and
- c- Sexual reproduction in protozoa takes place by -----(9)----- and -----(10)-----
- d- The genus *Leishmania* includes three species that infect man: ----(11)----, ---(12)----- and -----(13)-----
- e- Trichomonas vaginalis lives in -----(14)-----, -----(15)------ and -----(16)-----
- f- The infective stage of *Heterophyes heterophyes* is -----(17)-----, while in *Taenia saginata* is-----(18)-----
- g- The infective stage of *Balantidium coli* is -----(19)-----, while in *Ancylostoma* is ---(20)-----.

Prof. Dr/ Sayed ahmed El-Tantawy



Faculty of Science. Zoology Department Subject:Human Physiology Ti	econd Term nird level: Ecology ate: 10-6-2013 me Allowed: 2hr all Mark: (60)
Answer the following Questions	
Olve Evalor the abversal givelian outcomes of 2 only	Question Mark
Q1:a-Explain the physiological importance of 2 only 1. Transamination process. 2. Havesa monophosphate shunt.	[7]
1-Transamination process 2-Hexose monophosphate shunt	
3-Kreb's cycle 4-High liver glycogen content b-Discuss 2 only of the following expressions	[8]
1-Ketosis 2-Glycogenesis	[٥]
3-B-Oxidation 4-fatty liver	
J-B-Oxidation 4-latty liver	
Q2:a-Comment on the fate of 2 only	[7]
1-The amino group splitted from amino acids	[,]
2-Active acetate (Acetyl CoA) 3-Pyruvic acid	
b-Write shortly on 2 only	[8]
1-The general amino acid pool and protein turnover	2.12
2-The factors affecting blood glucose level	
3-The meeting point between carbohydrate and fat metabolism	
4-Evidence for urea formation in the liver and its excretion by the	ne kidney
Q3: a-Mention the physiological role <u>2 only</u>	[7]
1-Growth hormone	
2-Thyroid hormones	
3-Organic and inorganic substances in controlling hormone se	cretion
b- Compare between each of the following one item only:	[8]
1- Cushing, syndrome and Addison disease	
2- Cretinism and Graves disease	
्र [े]	

iscuss 2 only of the follo	owing items:	[10]
The mechanism of stero	id hormones	
Hormones of pancreas	3- Neural hormonal control	
Complete the following	g sentences:	[5]
Parathyroid hormone is	regulated by	, tetany
	and treated by	
	es secreted fromof	
	eted fromcells of the	
	by	
	, meanwhile, FSH se	
- ADH secreted from	and	stimulates the glucagon
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	اد وفاء الخولي اد هناء على حسن	

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Q4:a