البغرات بلنا عامير

Kafrelsheikh University Faculty of Fishers and aquaculture sciences Aquaculture Division

Final exam 2019/2020 3rd level Time: 2 h 50 marks

Aquaculture Division Subject: Climate changes & Fish Adaptation Exam committee: prof. Dr. M. Abo Waly, Prof. Dr. A. El-Henawy and Dr. F. Moghanm

Answer the following questions:

First Question: (10 marks) Put (T) if sentence is correct or (F) if it false:

- 1. Destruction of rainforests and collapse is a negative impact of climate change in the environment.
- Fisheries and aquaculture are one of the most widely traded and exported food products for many developing countries. They account for at least 15 percent of animal protein for more than 4 billion people, most in developing countries

3. Climate change impact on production ecology in production and yield.

- Autonomous adaptation in fisheries may be changing the timing or locations of fishing as species arrive earlier/later or shift to new areas.
- Common in climate change is competition between sectors for water resources, for example, between agriculture, domestic use and other sectors such as aquaculture.
- Maladaptation is a result from adaptation activities that are not planned or implemented properly.
- The concentration of methane increased twice the amount of concentration before the industrial revolution.
- The ozone layer is about 3mm in thickness and located 25 to 35 km from the earth's surface and is considered a protective shield for living organisms on Earth.
- Blue carbon refers to carbon that is sequestered in coastal vegetation systems such as mangrove forests, sea grass beds and rainforests.
- Improving fuel efficiency by switching to more efficient gear types or vessels, switching to sails or changing fishing practices would increase emissions from fishing activities.

Second question (5 marks): Compare between:

A) Adaptation & mitigation (3 marks) b) El-Neno & Spatial planning (2 marks)

Third question: (5×3 = 15 marks)

- 1. Define climate change, illustrate the causes of it and explained its impacts on the environment?
- 2. Explained the impacts of climate change on fisheries and aquaculture?
- 3. How fisheries and aquaculture contribution on global greenhouse gas emission?
- 4. Explained role of Mangroves and its benefits on Fisheries?
- 5. Write in point about the related phenomena to global warming and expected global warming?

Fourth question: (5× 4 = 20 marks) Explain the following:-

- L. The Remote Sensing Process
- 2. Image Analysis Scattering
- 3. Water reservoirs
- 4. NOAA AVHRR Satellite and climate change
- 5. General applications of RS

With best wishes

J. Sell

المحرزرات راد حاليخ

KAFRELSHEIKH UNIVERSITY FACULTY OF AQUATIC AND FISHERIES SCIENCES

Course Name: <u>Fish Culture Systems</u> Level: The Third Year of B.Sc. (Aquaculture Program)



جامعة كفر الشيخ كلية علوم الثروة السمكية والمصايد

Date: 15th January, 2020 Allowed Time: 2 hours

Final Exam of the Academic Year: 2019-2020 Fish Culture Systems

Answer the following questions: (50 Degrees)

1- The First Question: (15 Degrees)

| 1. 2. | Write about types of aquaculture classification systems and list three of them in detail. What criteria should you take into account when selecting a fish species for aquaculture | (5.0 D) (5.0 D) |
|----------|---|-----------------------|
| | Write the English Name of Candidate Aquatic organisms to play an important role in marine aquaculture in Egypt. | the future of (3.0 D) |
| 4. | The differences between Sustainable and Traditional Aquaculture. The Second Question: (18 Degrees) | (2.0 D) |
| | 1- Write in brief about Soil Quality Standards and Water Quality Standards? | (4.0 D) |
| | 2- Increasing artificial aeration will improve soil quality. How? 3- How to reduce the concentration of ammonia in fish pond in professional ways? | (3.0 D) |
| | 4- What are the main sources of ammonia in fish ponds? | (5.0 D) (3.0 D) |
| | 5- How to calculate the daily requirements of oxygen in fish ponds. | (3.0 D) |

3. The Third Question: (17 Degrees)

Recirculating aquaculture system (RAS) technology is very important for sustainability in Aquaculture. Based on the previous fact, white Short notes about:

| 1. | Draw or write about the Required Units within RAS System. | (4.0 D) |
|----|---|---------|
| 2. | Factors affecting the efficiency of biological filtration. | (4.0 D) |
| 3. | Advantages of UV sterilization & Dis-Advantages of Ozone. | (5.0 D) |
| 4. | Draw or write about the relationship between feed and all of oxygen, ammonia, alkalinity, | |
| | solid waste, & CO2? | (4.0 D) |

With my best wishes,

Dr. Mohamed Abdel-Rahim

J Cimisla

Kafrelsheikh University Faculty of aquatic and fisheries science

B.Sc. (Final Semester - I) Examination, 2019/2020

Environmental chemistry

Day: Wednesday, 15/01/2020

Time: 120 minutes

Max. Markers: 50

Dr. Mohamed A. S. Abdelrazek, Dr. Tamer Ismael and Prof. Dr. Ahmed A. Abouzeid

Answer the Following Questions in Short:

- 1. Originally, the concept of environmental chemistry focused on, what are the points that focused on?
- 2. Define the following scientific expression:

(Mineralized - Bioaccumulation - Transformations - Metabolic Processes -Xenobiotic - Brackish/Saline water - Dissolved oxygen - A toxicant - A toxin - A poison)

- 3. Several individual or combined processes contribute to the presence of different species that affect the composition and properties of natural waters. Mention including examples?
- 4. Explain the biologically mediated processes and its Effects?
- 5. What are the major polluters in industrialized countries?
- 6. Define biodegradation of chemical pollutants? And explain in points, How does it happen?
- 7. What is Green Chemistry? And explain in points, How does it happen?
- 8. Explain the effect of the difference of ultraviolet radiation on the ozone reactions?

Best Wishes

, C- Jungalah







Kafrelsheikh University, Institute of Nanoscience and Nanotechnology Faculty of fisheries and aquaculture science Course of Nanotechnology Applications

The Final Exam 2019/2020

Time of exam: 2 hours,

- Q 1: Write simple definition for all of these following parts?
- 1-Electrospun membranes. 2-Nano-absorbents. 3-Nano-catalysts. 4- Scaffold. 5-Hemolysin.
- Q 2: Briefly write comparison between the below scientific words?
- 1-Furunculosis and Fucoidan. 2- Food processing and Food packing. 3- Autophagy and Apoptosis. 4- Fenton's reaction and Photo-catalyst's reaction.
- Q 3: Choose the correct answer for the following sentences?
- Q3.1: The food packing process can be performed successfully after
- 1.Obtaining food safety and biosecurity sheet. 2. Non measurement for toxicity. 3.
- Non- processing for any food packing. 4. Neither of all.
- Q3.2: Fucoidan doped gold nanoparticles caused
- 1-Inhibition for the growth of *Aeromonas hydrophila*. 2-Improvement for the growth of *Tilapia*, 3-Both of all, 4- Neither of all.
- Q3.3: The infection of Aeromonas hydrophila causes.......
- 1-Erythrodermatitis. 2- Ocular non-ulceration. 3- Nasal ulceration. 4-Neither of all
- Q3.4: Carbon nanotubes can be used as 1-Nano-adsorbent materials. 2-Nano-membrane materials. 3-Nano-modified materials. 4- Both of all.
- Q 4: Correct the false and then write explanation for all of the below sentences?
- Q4.1: In the final solution of nano membrane materials, the pollutants will be precipitated in filtrated solution. Q4.2: Single carbon nanotubes have wide applications .Q4.3: There are no any factors affecting the adsorption process. Q4.4: Nanotechnology leads to decrease surface area of reaction.
- Q5. Write simple description about nanotechnology and its characterizations?

 Good Luck

| 12- | Pancreatic digestive enzymes are produced in quantity relatively to the larval weight | |
|-----|---|--|
| 13- | Trypsin activity is highly regulated by the | |
| 14- | Maximal capacity of lipase synthesis was reached for 36 triglycerides in diet. | |
| 15- | Amino acid requirements of fish larvae are for determined. | |
| | - Pelleted diets are for most marine fish larvae. | |
| 17- | In marine fish larvae, the vitamins studied being vitamins | |
| 18- | The most important live feed for marine fish larvae are | |
| 19- | Rotifers sizes vary depending on the length of the | |
| 20- | Artemia represents the phase of feeding the larvae after feeding by | |

Fourth question: Explained by only drawing with writing data (5 marks).

A- Larval Feeding system?
B- Changes in intestinal enzymatic activities during sea bass larvae development?

With our best wishes Prof. Dr. El-Sayed B. Belal Prof. Dr. Malik M. Khalafalla Kafr El-Sheikh University Faculty of Aquatic and Fisheries Sciences Department of Aquaculture

Subject: Aquatic Larval Feeding

Time: 2 hours Date: 5/1/2020 Level: Three



| Department | Level: Tiffee | |
|--|-----------------------------------|-------------------------|
| Final answer exam during academic | year 2019/2020 | - |
| Please answer the following questions: (50 | marks). | ont of the incorrect |
| First question: Put (N) in the front of the corre | ct statement and (24) way | |
| one. (10 marks): 1- Chaetoceros spp. was used as food in aquacu | ilture (). | |
| 1- Chaetoceros spp. was used as journs (| | |
| 2- Anabaena spp. produce algal toxins (). | algal growth are nutrie | ent, light, pH, |
| 2- Anabaena spp. produce algal toxins (). 3- The most important parameters regulating | | |
| salinity and temperature (). | tom are its relatively h | high cost and |
| salinity and temperature (). 4- The disadvantages of the continuous sys | iem are | |
| | | |
| 5- Photobioreactors can be defined as closed c | ulture systems for pro- | (). |
| - 1 - Les les avec are indoor, oulling | /, COMMING | 4006.5 |
| antegtion was used to determine | c mon ser | |
| | | olla sn () |
| | | ess without any |
| in the standar remediation by microuigue | 10 011 | 33 17111011 |
| - Hution and the hiomass brown | (CEC 17) A CANADA | |
| * S and question . Explain the answer to | y drawing (15 marks). | |
| 1 Chantle Harres At Mill Ordizate Control | | |
| 2- Flow diagram of purification steps of sing. | le cell algae? | |
| ation of live feeds! | | |
| 2 Third question: Complete the following | g sentences (20 marks) | <u>).</u> |
| 1- Predation of eggs and larvae is higher than | t for | 1.1 |
| the state of the s | | |
| Skeletal deformities happen mainly in Abnormal temperatures during early ontog | $senv \rightarrow sensitivity to$ | |
| 3- Abnormal temperatures during early only | Ki/kg of d | liet. |
| Abnormal temperatures and mg Young larvae require high energy, around | t | ed% EPA+DHA |
| | | |
| | | |
| 6- Aeffect of EPA on stary to 7- Phospholipid synthesis in fish larvae is too | oto meet u | il vice requirements |
| | | |
| 8- Effects of vitaminhave been described of the optimal level of vitamin A was determined to the optimal level of vitamin A was determined to the optimal level of vitamined to the optimal level of vitami | ed at mg all-trans retin | nol/kg diet dry maiter. |
| | | |
| 10- Theis a target organ of vice 11- Theis a highly efficient organ | gan for degrading compl | ex proteins. |
| 11- Thes a nighty efficient of | | |

Kafr El-Sheikh University

Faculty of Aquatic and Fisheries Sciences

Subject: Fishing Gear Technology

Aquaculture Department Level: 3, Date: 29\12\2019



Time allowed: 2 hours

Final exam during academic year 2019 - 2020

Exam board

Answer the following questions:

(50 marks)

1- A-Define the following terms

(20 marks)

1)- Fishing

2)- Half power angle

3)- Tex

4)- Mesh bar

5)- Bycatch

6)- Chuming

B- Write short notes on FADs.

2- A- Explain how tuna fish can be caught by pole and line fishing method.

B- Arrange the following hook sizes in a descending order

15, 20, 19/0, 9/0, 5, 5/0, 10, 2, and 22

(15 marks)

3- Match between column "A" and its suitable sentence in column "B".

Column A

Column B

(15 marks)

1) Codend

2) Basket traps

1) bottom fishing gears

3) Sinkers

2) long line construction unit

4) Sonar

3) a vertical fish detection and depth device4) help open the trawl net wings horizontally

5) Lambara net

5) trammel end where fish are collected

6) Basket

6) may be used with hooks for fish optical attraction

7) Light stick

7) a horizontal fish detection device

8) Trawl doors

8) doesn't have purse wire

9) Norzel fine

9) have negative buoyancy forces more than floats

10) Snood wire

10) corresponds the bunt in purse seine

11) preserve the hook from being cut due to fish bite

12) connects the netting with float & sinker ropes

With my best wishes Dr. El Azab Badr

المادة: تسويق وتجارة الأسمال ١١٠١، ١٠٠٠ المستوى: الثالث (تصنع الأسماك والبيوتقولوجي) الرّمن: سناعتان تاريخ الامتحان: ١١١٩، ٢٠٢٠ امتحان القصل الدراسي الخريفي للعام الجامعي ٢٠١٩ /٢٠١٠ جامعة كفر الشيخ بية علوم الثروة السمكية والمصايد



ا.م.د/ رشدي العدوي

ا.د/ محمود قواز

لجنة الممتحنين: ١.د/ فتحية رضوان

اجمالي الدرجات (٥٠ درجة) (١٧ درجة) أجب عن جميع الأسئلة التالية: السوال الأول:

أ- في ضوء دراستك عرف 4P مبيناً مكوناته؟

ب- بإستخدام تحليل SWOT وضح الأداء التسويقي لسوق الأسماك بميناء البرلس وبورصة الأسماك؟

ج- عرف التسويق، مع بيان كلاً من العناصر الأساسية والمداخل الرئيسية لدراسته ؟

السوال الثاني: (۱۷ درجة)

ا - " يواجه الانتاج السمكي العديد من التلقبات والأحداث غير المنظورة والتي تؤثر تأثيراً قوياً في إدارة المزارع السمكية"...إشرح هذه العبارة ، مبيناً هذه الأحداث والتقلبات ؟

ب- وضح المعايير الأساسية الخاصة بتحقيق الرضا الكامل للعملاء والمستهلكين لتطبيق نظام كفء وفعال لعمليات التسويق الإلكتروني؟ الإلكتروني ثم وضح المنتجات التي يتم التعامل معها في التسويق الإلكتروني؟

ج إذا كانت دالة الإيراد الكلي، ودالة التكاليف الكلية لمزرعة تعمل في سوق المنافسة الكاملة هي على التوالي:

 $TC = \frac{4}{6} \frac{TR = 8Q}{Q^3 - 20Q^2 + 80Q + 6}$ المطلوب : - 1 مستوى الانتاج الذي يحقق اقصى ربح : - 1 مستوى الانتاج الذي المطلوب : - 1 مستوى الانتاج الذي المستوى المست

٢ - أقصى ريح ؟

٣- السعر الذي تباع به الوحدة الواحدة من الانتاج الذي يحقق أقصى ربح ؟

السوال الثالث: (١٦ درجة)

- تكلم عن حالات الطلب بإستخدام مرونة الطلب السعرية، مع التوضيح بالرسم كامل البيانات ؟ ب- أذكر المفهوم وطريقة القياس والأهمية التطبيقية للأرقام القياسية السمكية؟

مع أطيب التمنيات بالنجاح والتفوق

لجنة الممتحنين

Zelig Zio C)