Kafrelsheikh University

Faculty of Aquatic and Fisheries Sciences Autumn Semester exam

Level: Four

Academic year 2019/2020

Subject: Fish Diseases

Time: 2 hours Date: 30/12/2019

Full marks: 50 Pages: 1



1-Write short notes on:	[16 Marks]
1) Motile Aeromonas septicemia clinical sings.	
2) Branchiomyosis clinical picture.	
3) Streptococcal Septicaemia P/M lesions.	
4) Role of fish specific immunity in fish diseases control.	
2-Complete the following:	[9 Marks]
1) First line of fish defense includes 1	2
2) Vibriosis disease characterized clinically by 1	2
3) disease is a Self-perpetuating infection d	isease caused by
4) Case history suggests Saprolegniasis disease include 1	2
5) Furunculosis control measures include 1	2
3-Write short notes on the following:	[each 5 degree]
1)Life cycle of lernaeasis.	
2)Golden dust disease.	
3)Henneguyasis.	
4) Life cycle of Schistosomiasis.	
5)Diagnosis of Enterohepatorenal syndrome.	

WITH OUR BEST WISHES



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Faculty of Aquatic and Fisheries Sciences

Subject: Ornamental fish production (2019-2020)

Final-term Exam Time allowed: 2 hours

Answer the following questions:	
1- A. Mention the importance of ornamental fishes?	(12 degrees)
B. Define the following terms:	
Mop - Egg Scatters - Livebearers - Plecostomus	
2 - A. Why should we keep ornamental fishes?	
B. Write short notes on artificial foods of ornamental fishes?	(14 degrees)
C. How to differentiate between male and female ornamental fish of the s	ame species?
3- A. Discuss the factors causing natural Hatchery and Spawning?	(14 degrees)
B. Find the odd word out and correct the following sentences:	
1) Size of an aquarium is designed in such a way that depth will be twice as lo	ong as its length
and height.	5
2) Goldfish-First ornamental fish to be kept, its bred in tropical waters.	
3) Fighting fish is one of Egg buriers.	
4) We must be placing each one male Koi Fish individual in the aquarium.	
5) Angel fish need to high PH degree.	
6) Molly and guppy are of Ovoviviparous.	
4-A. Live foods do still have a number a specific uses in fish keeping. Discuss	s. (10 degrees)
B. Complete the following sentences:	
1- Filters are of three types:,	
2- The fry of Discus fish swimming near of the parents for	
3- Sodium thio sulphate is used to	
4- Arowana fish are	
5that is kept as pets in confined spaces of an aquarium or	a garden pool with
the purpose of enjoying their beauty for fun and fancy.	
OCTOR THE MEDIC 1874	Good Luck

Kafrelsheikh University Faculty of Aquatic Sciences and Fisheries Course: Aquaculture hatching & propagation Academic level: 4th year, 1st semester



Date: 16/1/2020 Time: 2 h Total marks: 50 mark

Student name:

Q.	<u>I.</u> (25 mark)
A. Complete the following sentences:	(10 marks, 2 for each point)
1is number of undivided dorsal fin ray	in minor carp collected from natural sources
2 is process by which mature spermatids	are liberated into the lumen as spermatozoa
3- Ovaprim is composed of and	
4 is the feeding rate of catfish br	oodstock
5 is the ideal temperature for breeding o	
B. Compare between each of the following:	(10 marks, S for each point)
1- Dry and wet bundh (site of spawning).	(12 marty) of each punity
2- Yolk sac absorption in tilapla and Pangasius and its	effect on fry supplys)
C. Explain the natural breeding of finfish with diagra	
	The state of the s
	ADD W
	(25 mark)
A. Answer the following with (v) or (x):	(10 marks, 2 for each point)
1 Floating hapa provides better water exchange.	
Shooting net used for collection of fry from natural :	
3 Acetone is used for preservation of pituitary gland in	room temperature.
4 Sex separation in common carp reduces the quality of	
5. Red margin caudal fin of male tilapia Indicate sexual	inactivity.
B. Please, read the following sentences and answer th	
	ne mean in the unlight of the f
2- You are admitted to visit tilapia hatchery. The owner monosex fry. Please calculate the following:	would like to formulate a 80 kg ration for production of
- The amount of MT? - The volume of ethanol?	
ALL TI	HE BEST
N. C.	J. K. W. Carrie

Radi A. Mohamed

Course: Food Safety Enhancement Program/

Hazard Analysis Critical Control Point

Level: 4 Sp. Fish Processing and Biotechnology

Allowed time: 2 hour

Date: 16 / 1 / 2020





Answer the following questions

First Question: (10 marks)

- A- Discuss briefly the four main controls to reduce the risk of hazards in food
- B- Illustrate, in points, the HACCP principals AND the suggested prerequisite programs that could be required for the HACCP plan?

Second Question: (10 marks)

What are the different types of hazards that could be found in food? Mention some examples for each of them.

Third Question: (15 marks)

- A- Discuss in detail the transmission, symptoms and control measures of <u>TWO</u> infective food borne bacterial pathogens.
- B- Exemplify (in a table) the types, causative agent and symptoms of marine biotoxins, which could be found in the seafood.

Forth Question: (15 marks)

- A. What are the potential procedures and application protocols for handling plant materials for usage as food preservatives? Illustrate them with a schematic diagram.
- B. For the usage of a natural substance as food antimicrobial agent, there are some considerations and requirements to be checked. What are they?

Good luck and best wishes

Prof. Ahmed A. Tayel

Course: Food Inspection Techniques

Level: 4 Sp. Fish processing & Biotechnology

Allowed time: 2 hour

Date: 13 / 1 / 2020

First semester 2019/2020

Final Exam



Answer the following questions

First Question: (10 marks)

In a walk-through inspection, mention in points the general checkpoints which you should notice through:

- 1) Employees and staff assessment
- 2) Facility assessment

Second Question: (15 marks)

- A. Illustrate in brief the general components and considerations of the prerequisite plan.
- B- What are the essential required areas of knowledge and skill for the food inspector?

Third Question: (10 marks)

Illustrate with a diagram the main procedures and considerations involved in conducting inspections of food production facilities

Forth Question: (15 marks)

- A- Discuss briefly the most common inspection <u>Techniques</u> and <u>Equipment</u>.
- B- What are the main types of food inspection? Specify their definitions and the differences between them.

Good luck and best wishes

Prof. Ahmed A. Tayel

Kafrelsheikh University Faculty of Aquatic Sciences and Fisheries Course: Invertebrate Culture (0110110) Academic level: 4th year, 1st semester



Date: 9/1/2020 Time: 2 h Total marks: 50 mark

Student name:

Q. I. (20 mark)

Q.I-A- Answer the following with (v) or (x): (10 marks, 2 for each point)

- 1- Shrimp survivar fate is high in Japanese system.
- 2-Thelycum is present between pereopods IV & V in male shrimp.
- Artemia should be a principle constituent of Nauplius feed.
- 4- Crabs female brooder should be identified after breeding.
- 5- MSH stimulates development of gonads in crustaceans.

Q.I-B- Compare between each of the following: (10 marks, 5 for each point)

- 1. Post transportation management of healthy shrimp and shrimp show abnormal pigmentation.
- 2- inactive and mature gonads of P. fucata.

Q. II. (30 mark)

Q.II-A- Complete the following sentences: (10 marks, 2 for each point)

- 1-The color of eggs in female crab just before hatching is......
- 2- Successful mating in lobster is indicated by presence of
- 3-Adult prawns should be treated with formalln dip after transportation in a dose rate......
- 5- Breeding season of mussels in

Q.II-B- Write short notes on the following (10 marks, 5 for each point)

- 1- Seasoning of spat collectors in clams.
- 2- Maturation of crustacean's tests and its feedback mechanism (Diagram only).

Q.II-C- Please, read the following and answers the question: (10 marks)

Identification of larval stages and their morphological features is very important in shrimp production. How can you differentiate between nauplius, mysis and post larvae from their swimming behaviour?

All the best

C. A. Wohamed Radi A. Mohamed Kafrelsheikh University
Faculty of Aquatic Sciences and Fisheries
Course: Quarantine and Health Care
Academic level: 4th year, 1st semester



Date: 2/1/2020 Time: 2 h

Total marks: 50 mark Student name:

Q. I. (30 mark)

3	. II (SO Mark)
A. Complete the following sentences:	(10 marks, 2 for each point)
1is an endemic disease has r	nore incidence cases.
2 is managing of risks associated with h	ealth of human, animal, plant and environment hygiene.
3is the dose of hypochlorite solution u	sed for aquatic animal tank disinfection.
4 is proportion of infection sp	reading.
5 is the Invasion of aquatic animal bod	y by parasite.
B. Compare between each of the following:	(10 marks, 5 for each point)
1- Period of quarantine in low and high risk quara	ntine.
2- Validity period for health certificate before and	after exportation of consignment.
C. Explain the entrance to the quarantine facility	in high risk quarantine with diagram only (10 marks)
Q	. II. (20 mark)

A. Answer the following with (V) or (x):

(10 marks, 2 for each point)

- 1. Wild aquatic species required low risk quarantine during shipment.
- 2. Wastewater is treated by heating at 80 C for 30 minutes.
- 3. In high risk quarantine, footbath disinfection is done before exchange of outer cloths.
- Records should be kept for all shipments for at least 36 months.
- 5- Periodical internal audit is performed every 6 months in low risk quarantine.
- B. Please, explain your decision in the following guarantine cases: (10 marks)
- 1- Untreated fish for the second trial of treatment in low risk quarantine.
- 2- Detaching the consignments away from the container during transit.

ALL THE BEST

Radi A. Mohamed