Kafr	El-Sh	eikh Uni	vei	rsity	_
Facu	lty of	Vetrinar	y A	<b>1</b> edicine	
Dept.	Fish	Diseases	de	Managma	ent
Nam	۵.				



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26-5 <sup>th</sup> copipodial stage have a phenomenon of	f phototaxis is present in:
a) Lernea cyprinacea	b) Ergasilus mugilus
c) Argulus africans	d) Sanguinicola clarias
27-The mechanical treatment by inserting sti	cks or egg-trap sticks present in
a) Lernea cyprinacea	b) Ergasilus mugilus
c) Sanguinicola clarias	d) Argulus africans
28-The mechanical treatment by clipping the	fertilized female by scissors present in
a) Lernea cyprinacea	b) Ergasilus mugilus
c) Sanguinicola clarias	d) Argulus africans
29-The Length of the life cycle of lernae depe	ends on:
a) Temperature	b) Light
c) Water quality	d) Stocking density
30fish culture was used in couless of water and land.	antry reach to high technology and suffering from
a) Extensive	b) Intensive
c) Semi-intensive	d) Super-intensive
31-Artificial feed are used and not depend factors in fish culture.	on natural feed & oxygen level are predominant
a) Extensive	b) Intensive
c) Super-intensive	d) Semi-intensive
32 was used in the floating cage	s and hatcheries (incubators).
a) polyculture	b) monoculture
c) Extensive fish culture	d) Super-intensive fish culture
33-Sorting the different types of fish species	during the harvesting time is
a) advantage of mono-culture	b) disadvantage of mono-culture
c) disadvantage of poly-culture	d) advantage of poly-culture
34 System is worldwide system sources (high productivity).	n used especially in countries layed near to water
a) fiberglass pond	b) aquarium pond
c) floating cages	d) cement pond
35-The pond has fish from fingerlings to m	arketable size and the fish present for 2-3 months
a) nursing pond	b) rearing pond
c) productive pond	d) catch pond
36-The pond has fish from hatching for a pe	eriod 2-3 weeks until become fry 2-4 cm is
a) rearing pond	b) Quarantine pond
c) nursing pond	d) catch pond

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d) Ergasilosis	c) Dactylogyrosis	lasis b) Branchiomycosis	a) ichmiophoniasis
	of gills is	ausing m	To- mycotic disea
d) PAS	c) n&E	a) Common	48- Myrotic disco
		b) Geimsa	a) Zeil-Neilson
stain.		47- To confirm presence of spores of fungi, we have to use	47- To confirm p
d) 2-3	c) 1-2	b) 2-4	a) 1-3
	days.	40- Incubation period in branchiomycosis is	46- Incubation po
	d) gill rot disease	ridiosis	c) Ichthiosporidiosis
	b) kidney disease	t disease	a) winter pest disease
		Turkey egg like lesions can be observed in	45-Turkey egg li
	d) 2-8 mg/L		c) 8-10 mg/L
The second secon	b) 1-6 mg/L		a) 1-2 mg/L
0	can resist salinity up to	44- The actiological agent of winter pest disease can resist salinity up to	44- The aetiologi
	d) Ichthiophoniasis	iosis	c) Saprolegniosis
	b) Scolecobasidiosis	cosis	a) Phomamycosis
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	es except in	45- Ascites is recorded in most of mycotic diseases except in	45- Ascites is rec
	d) 1% glycerine	se	c) 1% glucose
	b) 1% bovine serum	eeds	
add to SDA media.	onus hoferi, we should	42- For isolation and identification of Ichthiophonus hoferi, we should add	42- FOF ISOlation
	d) Asperigillus niger	Pnomaherbarum sp.	c) Fnomane
	b) Candida albicans	lus flavus	a) Asperigillus flavus
induced using	can be experimentally	41- Kusty spots on the dorsal surface of the fish can be experimentally induced using	41- Rusty spots
	d) White spots	orrhage	c) Iocal hemorrhage
ge	b) Linear hemorrhage	Marbling appearance	
		40- The pathognomonic lesion of Fish lice is:	40- The pathogr
98	d) 3th copipodial stage	2" copipodial stage	c) 2" copip
ge	b) 1st copipodial stage	5 <sup>th</sup> copipodial stage	a) 5 <sup>th</sup> copipe
		The infective stage of Argulosis is:	39- The infectiv
sites	d) heart worm parasites	Ergasilus mugilus	c) Ergasilu
	b) Argulus africans	Lernea cyprinacea	a) Lernea c
and swim away as seen as mass mortalities especially	and the surface of fish eavy infestation cause and weight loss.	can be seen moving rapidly around the surface of fish and swim away as seen as the fish is netted out for examination and heavy infestation cause mass mortalities especially in young fish due to osmo-regulatory failure and weight loss.	the fish is n in young fis
	d) Red	brown to yellow	C
	b) Grayish white	brown	
		appearin colour.	37- The lernae appear.

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49-Saprolegniosis can be caused by all next fungi except.	i except	
a) Saprolegnia sp.	b) Achlya polyandra	
c) Aphanomycess sp.	d) Phomaherbarum sp	2.
50-Respiratory manifestation could be observed in all next mycotic diseases except.	in all next mycotic dis	eases except
a) Ichthiophoniasis b) Branchiomycosis	c) Candidiomycosis	d) Saprolegniosis
51-Upnormal swimming standing position with head upward can be observed in	nead upward can be ob	served in
a) Phomamycosis b) Branchiomycosis	c) Ichthiophoniasis	d) Scolecobasidiosis
52-Red colored gills in branchiomycosis may be due to		of blood vessles.
a) infarction b) stenosis	c) thrombosis	d) necrosis
53-Mycotic disease causing high economic losses in hatcheries is	in hatcheries is	
a) Saprolegniosis b) Candidiomycosis	c) Ichthiosporidiosis	d) Scolecobasidiosis
54 fungi are tissue specific.		
a) Branchiomycess sanguinis	b) Saprolegnia parasitica	tica
c) Candida albicans	d) Scolecobasidium humicola	micola
55-Stop feeding is the first key point in treatment of fish infected with	t of fish infected with	
a) Candidiomycosis b) Branchiomycosis	c) Ichthiophoniasis	d) Saprolegniosis
56- The main prediliction seat of phomamycosis is	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
a) Kidney b) skin	c) gas bladder	d) Gills
57-Skeletal anomalies in fish infected with ichthiosporodiosis are due to presence of resting stage in	hiosporodiosis are du	e to presence of resting
a) brain b) muscles	c) spinal cord	d) liver
58is one of the main death causes of fish in saprolegniosis disease.	s of fish in saprolegnio	sis disease.
a) Osmoregulatory failure b) Urine retention	c) Cholangioma	d) Osmotic failure
59-Ration is the main source of infection if contaminated with spore of	ninated with spore of.	
a) Candida albicans	b) Saprolegnia sp.	
c) Ichthiophonus hoferi	d) Phomaherbarum sp.	
50- In water, the infective stage of Ichthiosporodiosis can be destroyed using	osis can be destroyed u	sing
a) sodium chloride b) formaline	c) Acetic acid	d) chlorine
51-Infectious haematopoietic necrosis virus inactivated at:	vated at:	
a) 60 °C b) 80 °C	c) 100 °C	d) 20°C
62-IHNV prefer water temp. at:		
a) 15-20 °C b) 6-8 °C	c) 20-30°C	d) 30-35°C
63-IHNV can be cultured on:		
a) RTG2 b) FHM	c) BF	d) CCL
4-Incubation period of carp pox virus is:		X) There was 800.
<b>a)</b> 2 months <b>b)</b> 15 days	c) 4 months	d) 6 months

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a) Direct contact b) Skin injuries c)	30-Route of infection of Lymphocystis virus is	a) Adhesive glands b) Vitelline glands c)	79-Dactylogyrus appear opaque under the microscope due to the presence of:	a) Fall b) Winter c)	78- The reproduction of Dactylogyrus occur in:	a) Carp b) Tilapia c)	77- Quadricanthus parasitized on the gills of:	a) Poor water quality b) Good water quality c) High salts	76- The presence of Gyrodactylosis is a sign of:	a) 1papillae b) 4 papillae c)	75- The anterior end of Gyrodactylus ch.ch by presence of:	a) Plugged operculi b) Opened mouth c)	74- The pathognomonic sign of yellow grub disease is:	a) Copepoda b) Aquatic bird c)	73-The 2 <sup>nd</sup> I.M.H of Clinostomum tilapiae is:		a) Feeding on infected tissue b)	72-Lymphocystis cells that found in gut and other internal organs result from:	c) Infected melt	a) Infected epithelial cells b)	71- The source of L.V.D virus is the	a) One year b) Two months c)	70- The lesion caused by the Cauliflower disease taketo appear:	a) Mugil b) Sea bream c)	69-Susceptible fish for Cauliflower disease is:	a) Liver b) Blood c)	68- The virus causing the Cauliflower disease present in the	a) Spring b) Summer c	67- The papilloma in cauliflower disease of eels increased in the growth in:	a) Quinine sulphate b) CuSO4 c)	66-Cauliflower disease of eels can be treated using:	a) Tilapia b) Common carp c)	5-Susceptible fish for pox disease:
Water	:.	c) Embryos	ope due to the presence	Spring		Mugil				2 papillae	ence of:	c) Anemia	is:	Fish		d) Copepoda	) Metastasis	internal organs result	d) Infected serum	) Infected blood		) Five years	keto appear:	) Tilapia		c) Spleen	nt in the	c) Winter	reased in the growth i	) Aricyl disodium salt	••	) Cat fish	
d) Melt		d) Hocks	e of:	d) Summer		d) Cat fish		d) Dereased O <sub>2</sub>		d) 3 papillae		d) Ascitis		d) Aquatic snail				from:		9		d) Three days		d) European eel		d) Kidney		d) Fall	in:	d) KMnO4		d) Mugil	

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## FISH DISEASES AND MANAGEMENT EXAMINATION

## i- Choose (true) or (false):

- toward the gill arch of Oreochromis niloticus infected with columnaris The bronchial epithelium is swollen & the necrotic process spread from the tips of gills
- 2 The highly virulent strains of Fl. columnaris, resulted in extensive tissue damage, in gills
- 4 The peduncle disease progresses inwardly until the base of all fins
- 7 Bacterial osmoregulatory impairment /Environmental gill disease is characterized by respiratory distress 20
- yı lesions of EPDC Oreochromis niloticus, showed white nodules on the gills, kidney, liver & spleen in pm
- 9 pathognomonic lesion of lernea cyprinacea is marbling appearance in skin
- 7 digestive Argulus has pre-oral stylet that not only cause local mechanical injuries but also release enzymes giving rise to systemic
- 00 difficult in treatment. prevention is the best method for control of crustacean diseases due to ij IS very
- 9disease occurrence but must be counted/field presence of crustacean parasites on the external body surface IS: not indicative
- 10-When use intensive fish culture depend only on natural feed not artificial feed
- 11-Branchiomycess sanguinis live inside the parenchymal tissue of gills
- 12-Fluffy cotton wool like appearance could be observed in Ichthiophoniasis.
- 13-Branchiomycosis can be observed in seabream fish farms
- 14-Asperigillosis is characterized by hemorrhagic ulcer
- 15-Candidiomycosis is characterized by blister like ulcer
- 16-The epizootics of IHNV can be decreased by raising the water temp
- 17-Pox disease decreases the marketable value of the fish due to its contagious nature
- 18-Cauliflower disease of eels ch.ch by presence of gelatinous milky white lesion.
- 19-The body weight decreased in the Cauliflower disease as the lesion appears on the mouth
- 20-Gill damage occur in Dactylogyrosis due to protease enzyme production

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## II- Choose only ONE correct answer from the multiple:

Outbreaks of columnaris disease occur mostly in:

d) Common carp	c) Cat fish
b) Mugil cephalus	a) O reochromis niloticus
of a fish, which is:	12- An open ulcer on the head, between the eyes of a fish, which is:
d) Bacterial kidney disease	c) Bacterial gill disease
b) Enteric septicemia of cat fish	a) EPDC
, abdominal dropsy & opaqueness of eyes is	11-Oreochromis niloticus, lost its pigmentation, abdominal dropsy & opaqueness of eyes is characteristic sign of:
c) Fl. Bronchiophilum d) Fl. Psychrophilum	a) Ed. Ictaluri b) Ed. Tarda
ne postero-lateral region, developed later in s, a sign of:	10-A cat fish has small cutaneous lesions in the postero-lateral region, developed later int abscesses in the muscle & tail filled with gases, a sign of:
c) Bact.gill disease d) Streptococcosis	a) Columnaris disease b) Peduncle disease
)0mg/l, for one hour, is a remedy for:	9- Addition of Pot. Permanganate at a dose of 100mg/l, for one hour, is a remedy for:
c) 19-25 °C d) 12-18 °C	a) 8 - 10 °C b) 10 - 15 °C
ater temperature:	8- Outbreaks of bacterial gill disease occur at water temperature
d) Enteric septicemia of cat fish.	c) Peduncle disease.
b) Bacterial gill disease.	a) Columnaris disease.
or spots on the gill capillaries is a sign of:	7- Presence of white to gray sandy - like grains or spots on the gill capillaries is a sign of:
c) Bact.gill disease d) Streptococcosis	a) Columnaris disease b) peduncle disease
l-April, a prophylactic procedure for:	6- Rearing young fish in troughs inside until mid-April, a prophylactic procedure for:
c) 20°C d) 18°C	a) 15 °C b) 10 °C
ater temperature below:	5- The incidence of peduncle disease occurs at water temperature below:
d) Ps.Flourescens	c) Fl. Psychrophilum
b) Fl. Bronchiophylum	a) Fl. Columnaris
reached the base of fins, except at the cauda is characteristic of:	4- Necrosis progresses inwardly on the fins until reached the base of fins, except at the cauda fin, where invasion process may be continued, is characteristic of:
c) Streptococcosis d) EFDC.	a) Columnaris diseas b) peduncle disease
rocess spread from the	3- When the gills have been attacked, the necroti toward the gill arch:
c) 20°C d) 8°C	a) 10 °C b) 15 °C
disease occur at a water temperature above:	2- Transmission of columnaris disease occur at
d) Early summer & Early autumn	c) Winter & early spring
b) Early spring & summer	a) Summer & early autumn

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- 2 Late spring, early summer &early fall
- 0 Late spring, late summer & early fall
  - 6) Early spring, early summer &early fal
- 9 Early spring, late summer & early fall

		Y
a) Doct-11111	parenchyma, a sign of	- Mulley of a lish with
		creamy
		white
		granulomatous a
	***************************************	herpee
	CS VALUE III	which mor
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- Bacterial kidney disease
- Enteric septicemia of cat fish

- 9 Peduncle disease
- 0 EPDC
- 15- The bacterial kidney disease outbreaks occur at water temperature of: a) 7-10°C b) 15-18°C C 20 -22 °C d) 22 -26 °C
- 16- Cystic cavitation of body musculature, containing opaque serous fluids, a pm lesion of:
- Peduncle disease Bacterial kidney disease 5 9 Streptococcosis Enteric septicemia of cat fish
- 17- The spleen of fish, enlarged with rounded edges & cherry coloration, a P. M. lesion of: 2 Peduncle disease 9 EPDC
- 18- In marine fish an enteritis, pale liver & blood in peritoneal cavity are common P.M of:

9

Bacterial kidney disease

Streptococcosis

- 2 Columnaris disease **b**) Peduncle disease
- 19- The epizootics of pop eye disease occurs when water temperature exceeds: Pop eye disease 9 Bacterial kidney disease
- a) 10°C b) 20 °C c) 12 °C d) 15 °C
- 20- Erratic swimming, uni or bi-lateral exophthalmia & corneal opacity are common signs of: a) Streptococcosis b) Bact. gill disease 0 Peduncle disease d) Bact. Kidney disease
- 21- The Argulus africans parasites.....to salinity. a) sensitive
- 22-Lernea cyprinacea parasites .... b) resist up to 1.5% c) resist up to 3.5% d) very sensitive
- resist salinity up to 1.5% 9 b) resist salinity up to 3.5% sensitive to salinity.
- 23- The Ergasilus mugilus parasites. very sensitive to salinity
- 24- The infective stage of Lernea cyprinacea is: sensitive to salinity Very sensitive to salinity. <u>d</u> 9 sensitive & some resist to salinity resist to salinity

2)

5<sup>th</sup> copipodial stage 2<sup>nd</sup> copipodial stage b) 1st copipodial stage

2)

- 25-The parasitic print of Ergasilus mugilus is: و 3<sup>th</sup> copipodial stage
- 9 linear hemorrage

2)

focal hemorrage

Marbling appearance

- d) diffuse hemorrage