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Class Roll No.:

Agriculture and Forestry University
Faculty of Agriculture
Rampur, Chitwan
Internal Examination- 079

Subject: **Principles of Aquaculture**
Time: **15 min.**

Course code: **AQU 201**
Full Marks: **5**

Encircle the most appropriate answer:

0.3*4= 1.2

1. Which of the following statement is true?
 - a. All the fish are cold blooded.
 - b. All fish breathe by means of gills only.
 - c. Heart of finfish pumps only venous blood.
 - d. The skin of all fish is covered with some type of scale.
2. Which one is an indigenous species of Nepal?
 - a. Silver carp
 - b. Bighead carp
 - c. Sahar
 - d. Common carp
3. Which of the following is a determinant factor for species selection in aquaculture?
 - a. Turbidity
 - b. pH
 - c. DO
 - d. Temperature
4. Which of the following infrastructure is not considered as basic while selecting site for fish farm?
 - a. Transportation
 - b. Electricity
 - c. Market
 - d. Education

Fill in the blanks with most appropriate answer:

0.5*5= 2.5

1. Scientific name of Silver carp is
2. Full form of GIFT is
3. Fish comes to the water surface to gulp air frequently due to
4. The adipose fin is present in and fish cultured in Nepal.
5. Thick and fringed lips is the characteristic feature of

Differentiate between Vietnamese catfish and African catfish (major 3 differences).

1.3



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1. Which of the following statement is not true?

- Fish must have naturally ability to grow faster and to a large size for suitability in aquaculture.
- A fish with lower AFCR is suitable for aquaculture.
- Herbivorous fish needs higher protein level in feed compared to carnivorous fish.
- In a food chain, certain amount of energy is lost at each trophic level.

2. Which among these is suitable for coldwater aquaculture?

- Rohu
- Mrigal
- Rainbow trout
- Grass carp

3. The uppermost layer in a thermally stratified pond is known as....

- Hypolimnion
- Metolimnion
- Epilimnion
- Thermocline

4. Steepness of the land suitable for aquaculture pond construction should be

- 0-2%
- 3-6%
- 5-10%
- 10-15%

Fill in the blanks with most appropriate answer:

0.5*5= 2.5

1. Scientific name of Grass carp is

2. Full form of PPT is used as a measure of salinity or in preparation of solutions.

3. In a thermally stratified pond the temperature falls at 1°C/ m depth in region

4. The caudal fin of Nile tilapia is in structure.

5. Abdominal keel is complete in

Differentiate between Rohu and Bighead carp (major 3 differences).

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1. Which of the following statement is true?
 - a. Fish Stocking is a part of capture fisheries.
 - b. Enhanced fisheries always implies some sort of license.
 - c. Aquaculture implies the individual or corporate ownership.
 - d. Aquaculture means the farming of fishes only.
2. Which fish have thick and fringed lips?
 - a. Rohu
 - b. Mrigal
 - c. Sahar
 - d. Grass carp
3. Which type of turbidity is considered suitable for semi-extensive aquaculture?
 - a. Planktonic
 - b. Clay
 - c. Humic
 - d. All of the above
4. Which of the following is a method for the removal of aquatic weeds from a fish pond?
 - a. Using *Gambussia affinis*
 - b. Using CuSO₄ pellets
 - c. Using aerator
 - d. Using hay bales

Fill in the blanks with most appropriate answer:

0.5*5= 2.5

1. Scientific name of Stripped catfish is
2. Full form of DO is
3. The molecular formula of dolomite is
4. The caudal fin of African catfish is in structure.
5. fish have head length longer than the body depth.

Differentiate between Silver carp and Bighead carp (major 3 differences).

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1. Which of the following statement is not true?
 - a. Fish having high susceptibility to disease are not good for aquaculture.
 - b. A fish must be able to breed in captivity for suitability in aquaculture.
 - c. A fish with higher fecundity is not suitable for aquaculture.
 - d. Consumers' acceptance is vital for species selection for aquaculture.
2. Which fish have completed abdominal keel?
 - a. Common carp
 - b. Bighead carp
 - c. Grass carp
 - d. Silver carp
3. Which instrument is used to measure transparency in a fish pond?
 - a. Thermometer
 - b. Clay
 - c. Secchi disk
 - d. Photometer
4. Which of the following is an example of predatory fish?
 - a. Rosy barb
 - b. Flying barb
 - c. Helicopter catfish
 - d. Dwarf gourami

Fill in the blanks with most appropriate answer:

0.5*5= 2.5

1. Scientific name of Nile tilapia is
2. Full form of GIFT is
3. The source of oxygen in a green pond are and
4. The number of fish species found in Nepal is
5. Long and spiny dorsal fin is present in

Differentiate between Rohu and Common carp (major 3 differences).

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1. Which of the following statement is true?
 - a. Aquaculture implies the farming of fish in freshwater only.
 - b. The body of elasmobranchs is covered with cosmoid scales.
 - c. Lateral line system is a sense organ in finfishes.
 - d. All finfish are oviparous.
2. Where does the adipose fin of fish lies?
 - a. Between caudal fin and anal fin
 - b. Between dorsal and caudal fin
 - c. Between pectoral and pelvic fin
 - d. Ahead of dorsal fin
3. The DO in a fish pond is lowest at
 - a. Dawn
 - b. Dusk
 - c. Afternoon
 - d. Midnight
4. Which of the following is an example of weed fish?
 - a. Stinging catfish
 - b. Helicopter catfish
 - c. Snakehead
 - d. Rosy barb

Fill in the blanks with most appropriate answer: **0.5*5= 2.5**

1. Scientific name of Rainbow trout is
2. Full form of AFCR is
3. The Secchi disk visibility in a carp polyculture pond must be between to cm.
4. Two fish species cultured in Nepal that easily breeds in the pond condition are
and
5. Long and spiny dorsal fin is present in

Differentiate between Sahar and Silver carp (major 3 differences). **1.3**



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1. Which of the following statement is not true?

- Trash fish can be used as animal feed.
- Fish flesh does not contain any type of vitamin.
- Fish are good source of ω -3 fatty acids.
- Isinglass are made of the swimbladders of fish.

2. Which among these is not suitable for warm water aquaculture?

- Rainbow trout
- Nile Tilapia
- Vietnamese catfish
- African catfish

3. The required DO for carp polyculture is

- < 2 mg/L
- > 5 mg/L
- > 8 mg/L
- > 12 mg/L

4. Which of the following is not used as a poison against the weed and predatory fish?

- Mahua oil cake
- Century plant
- Para grass
- Tea seed cake

Fill in the blanks with most appropriate answer:

0.5*5= 2.5

1. Scientific name of Bighead carp is

2. Full form of PPM is used as a measurement unit for dissolved oxygen.

3. In a thermally stratified pond, the uppermost layer of water is known as

4. Due to breeding habit of Nile tilapia, monosex culture is preferred.

5. African catfish have one pair of maxillary barbells, one pair of barbells and two pairs of barbells

Differentiate between Rainbow trout and Silver carp (major 3 differences).

1.3

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Internal Examination- 079Subject: **Principles of Aquaculture**Time: **15 min.**Course code: **AQU 201**Full Marks: **5****Encircle the most appropriate answer:****0.3*4= 1.2****1.** Which of the following statement is true?

- a. Riverine fisheries is considered as a form of capture fisheries.
- b. Ranching is a part of capture fisheries.
- c. Enhanced fisheries implies only harvesting.
- d. For capture fisheries a license is necessary.

2. The native range of Nile tilapia is.....

- a. East Europe
- b. South East Asia
- c. Central and North Africa
- d. North and Central America

3. What is the required pH range for carp polyculture?

- a. 5.5-7.5
- b. 6.8-8.6
- c. 7.9-9.9
- d. 8.9-10.9

4. Which of the following commonly used as a protein source for preparing fish feed?

- a. Rice bran
- b. Corn
- c. Mustard oil cake
- d. Oats

Fill in the blanks with most appropriate answer:**0.5*5= 2.5****1.** Scientific name of Freshwater prawn is**2.** Full form of AFCR is**3.** In a thermally stratified pond, the lowermost layer of water is known as**4.** Artificial breeding of fishes using hormones is also known as**5.** Long dorsal fin with no spines is the characteristic of**Differentiate between Common carp and Mrigal (major 3 differences).****1.3**



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1. Which of the following statement is not true?

- Swim bladders are made of connective tissues of skin of fish.
- Artificial pearl is made from the silvery coating of scales of fish.
- Gambusia affinis* is used for biological control of mosquito.
- Fish are also used in 'Ayurvedic' medicines.

2. Rainbow trout is native of

- China
- Japan
- Hungary
- USA

3. CO₂ alone cannot lower the pH of water below.....

- 2.5
- 3.5
- 4.5
- 5.5

4. Which of the following stage of fish needs highest amount of feed according to body weight?

- Fry stage
- Fingerling stage
- Adult stage
- Brood fish

Fill in the blanks with most appropriate answer:

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1. Scientific name of Helicopter catfish is

2. Full form of MOC is used as a fish feed ingredient.

3. The solubility of oxygen in water with increase in water temperature keeping all others constant.

4. Freshwater prawn have 5 pairs of legs and 5 pairs of abdominal legs.

5. is able to survive out of water due to air breathing organ.

Differentiate between Rainbow trout and Sahar (major 3 differences).

1.3



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1. Which of the following statement is true?
 - a. All fish have accessory respiratory organ.
 - b. Fertilization in all fish is external
 - c. The circulatory system of fish is of open type
 - d. The skin of elasmobranchs has placoid scales.
2. Which of the following fish does not bear any barbells?
 - a. Nile tilapia
 - b. Pangasius
 - c. Mrigal
 - d. Common carp
3. Which one is a phytoplankton?
 - a. Anabaena
 - b. Rotifers
 - c. Cyclops
 - d. Daphnia
4. Which of the following have lowest FCR?
 - a. Dough feed
 - b. Sinking pellet feed
 - c. Floating pellet feed
 - d. Powder feed

Fill in the blanks with most appropriate answer:

0.5*5= 2.5

1. Scientific name of Knife fish is
2. Full form of DAP is used as an inorganic fertilizer in fish ponds.
3. The solubility of oxygen in water with increase in salinity keeping all others constant.
4. Gill rakers is long and dense in(feeding habit) fishes.
5. African catfish have eyes compared to Vietnamese catfish.

Differentiate between Nile tilapia and Common carp (major 3 differences).

1.3



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1. Which of the following statement is not true?
 - a. Sahar is a good candidate of sport fishing.
 - b. Fish leather can be used for making bags and belts.
 - c. Fish caviar is made from the eggs of salmon.
 - d. Fish pearl is made from the swim bladders of fish.
2. Which of the following is a filter feeder?
 - a. Grass carp
 - b. Catla/ Bhakur
 - c. Mrigal
 - d. Pangasius
3. Which one is a zooplankton?
 - a. Nostoc
 - b. Euglena
 - c. Navicula
 - d. Daphnia
4. Neutralizing value of liming material depends on
 - a. Fineness of the material
 - b. pH of the pond
 - c. Equivalent weight of the material
 - d. All of the above

Fill in the blanks with most appropriate answer:

0.5*5= 2.5

1. Scientific name of Silver barb is
2. Full form of 17α -MT is, a hormone used for sex reversal of Nile tilapia.
3. The solubility of oxygen in water with increase in atmospheric pressure keeping all others constant.
4. There are distinct larval stages in the development of freshwater prawn.
5. fish have serrated pectoral spine.

Differentiate between Silver carp and Rainbow trout (major 3 differences).

1.3