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BAQ-001

DIPLOMA IN AQUACULTURE (DAQ)

Term-End Examination

June, 2020

BAQ-001 : BASICS OF AQUACULTURE

Time : 3 Hours

Maximum Marks : 100

Note : (i) Attempt five questions in all. Question

No. 1 is compulsory.

(ii) All questions carry equal marks.

(iii) Draw a well labelled diagram wherever required.

1. (a) Define the following terms : 1 each

(i) Rhithron river zone

(ii) True estuarine fauna forms

P. T. O.

- (iii) Gross primary productivity
 - (iv) Carrying capacity
 - (v) Intensive level of aquaculture
- (b) Differentiate between the following : 2 each
- (i) Pelagic and benthic regions
 - (ii) Nitrification and denitrification
 - (iii) Pyramid of number and pyramid of biomass
 - (iv) Fermented paste and fermented fish
 - (v) Pearl and pearl essence
- (c) Expand the following : 1 each
- (i) DO
 - (ii) FPC
 - (iii) FDA
 - (iv) PPT
 - (v) NAC

2. Describe the phosphorus cycle with the help of a suitable diagram. 20
3. (a) Give the process of treatment of sewage water before its use in aquaculture. 10
- (b) Write how the three phases of aquaculture evolved. 10
4. Write the salient features of major and minor carps. 20
5. (a) What are the common water quality problems in pond aquaculture ? 10
- (b) Discuss the major constraints in existing system of fishery education. 10
6. What are the different types of aquaculture by-products ? Describe any *two*. 20
7. Describe any *five* different candidate marine species suitable for sea farming. 20

8. Write short notes on any *two* of the following :

10 each

- (a) Fish preservation by salting and drying
- (b) Sea weeds
- (c) Methods of extension services in aquaculture