

**2019**

**( October )**

**FISHERY SCIENCE**

**(Honours)**

**FIFTH PAPER (Paper—5A)**

**( Fishery Technology, Pathology and  
Extension Education )**

**( Theory )**

**Marks : 56**

**Time : 3 hours**

**The figures in the margin indicate full marks  
for the questions**

**Answer Question No. 1 which is compulsory and  
any four from the rest**

- 1. Write short notes on any three of the  
following:**

**(a) Role of Krishi Vigyan Kendra (KVK) in  
rural development**

**(b) Bacterial growth curve**

**( Turn Over )**

- (c) Traditional fishing gears of NE India
  - (d) Smoking method for fish preservation
  - (e) Participatory Rural Appraisal (PRA)
2. What is rigor mortis? Explain post-mortem changes taking place in fish muscle during rigor mortis. Write briefly the causes of fish spoilage. 2+5+4=11
3. Discuss in details about extension programme planning. 11
4. Describe the different types of bacterial fish diseases in India with therapeutic measures. 11
5. (a) Describe communication models with reference to SMCRE model. 6  
 (b) Explain the importance of seven C's for effective communication process. 5
6. Define extension education. Describe different types of extension teaching methods used to transfer fisheries technology to rural people. 2+9=11
7. Give an account of the important fishery by-products. 11

8. Write short notes on any two of the following :  $5\frac{1}{2} \times 2 = 11$
- (a) Fish drying and its demerits
  - (b) Fishery cooperative societies
  - (c) Fungal diseases in fishes

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