

Total No. of Printed Pages:2

SUBJECT CODE NO:- B-2049
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. F.Y.(Sem-I) Examination Oct/Nov 2019
Fishery Science Paper-I
Morphology and Taxonomy

[Time: 1:30 Hours]

[Max. Marks: 50]

Please check whether you have got the right question paper.

- N.B
- 1) Attempt all questions.
 - 2) Illustrate your answer with suitable labeled diagram.

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|----------------------|--|-------------------|------------------------|----------------|------------------|----------------------|------------|-------------|-----------------|-------------------|-----------------|----------------|---------------------|----------|-------------|-------------|---------|--|
| Q.1 | Define gill arch theory. | 20 | | | | | | | | | | | | | | | | |
| | OR | | | | | | | | | | | | | | | | | |
| | Define fish and add a note on external characters of fishes. | 20 | | | | | | | | | | | | | | | | |
| Q.2 | Explain in detail evolution of fishes. | 20 | | | | | | | | | | | | | | | | |
| | OR | | | | | | | | | | | | | | | | | |
| | Write short notes (any four) | 20 | | | | | | | | | | | | | | | | |
| | <ol style="list-style-type: none"> i) Hag fishes ii) Classification of fish by berg iii) Placoid scales iv) Speed of travels v) Lung fishes (Depnoi) vi) Salient feature of Holocephali | | | | | | | | | | | | | | | | | |
| Q.3 | Multiple choice questions | 10 | | | | | | | | | | | | | | | | |
| | <ol style="list-style-type: none"> 1) Fishes able to breath in air ----- <table border="0" style="width: 100%; margin-left: 20px;"> <tr> <td>a) Brackish water</td> <td>b) Marine water form's</td> </tr> <tr> <td>c) Fresh water</td> <td>d) None of these</td> </tr> </table> 2) In fishes the jaws are adapted for ----- <table border="0" style="width: 100%; margin-left: 20px;"> <tr> <td>a) Manipulating food</td> <td>b) Defence</td> </tr> <tr> <td>c) Grasping</td> <td>d) All of these</td> </tr> </table> 3) Elasmobranchs are exclusively ----- <table border="0" style="width: 100%; margin-left: 20px;"> <tr> <td>a) Brackish water</td> <td>b) Marine water</td> </tr> <tr> <td>c) Fresh water</td> <td>d) All of the above</td> </tr> </table> 4) Which of following is a scale less fish ----- <table border="0" style="width: 100%; margin-left: 20px;"> <tr> <td>a) Labeo</td> <td>b) Cat fish</td> </tr> <tr> <td>c) Scolidon</td> <td>d) Amia</td> </tr> </table> 5) A fish is characterized by the presence of ----- | a) Brackish water | b) Marine water form's | c) Fresh water | d) None of these | a) Manipulating food | b) Defence | c) Grasping | d) All of these | a) Brackish water | b) Marine water | c) Fresh water | d) All of the above | a) Labeo | b) Cat fish | c) Scolidon | d) Amia | |
| a) Brackish water | b) Marine water form's | | | | | | | | | | | | | | | | | |
| c) Fresh water | d) None of these | | | | | | | | | | | | | | | | | |
| a) Manipulating food | b) Defence | | | | | | | | | | | | | | | | | |
| c) Grasping | d) All of these | | | | | | | | | | | | | | | | | |
| a) Brackish water | b) Marine water | | | | | | | | | | | | | | | | | |
| c) Fresh water | d) All of the above | | | | | | | | | | | | | | | | | |
| a) Labeo | b) Cat fish | | | | | | | | | | | | | | | | | |
| c) Scolidon | d) Amia | | | | | | | | | | | | | | | | | |

- a) Pharyngeal gills
 b) Dermal scales
 c) Paired fins
 d) All of the above
- 6) Members of the class-Teleostomi have -----
 a) Protocercal tail
 b) Homo circle
 c) Diphycercal tail
 d) None of the above
- 7) Extinct fishes are included in -----
 a) Crossopterygii
 b) Elasmobranch
 c) Actinopterygii
 d) Placodermi
- 8) In sharks, the scales are -----
 a) Placoid
 b) Rhomboid
 c) Cycloid
 d) Ctenoid
- 9) In which of the following group the operculum is present -----
 a) Holocephali
 b) Elasmobranchs
 c) Dipnoi
 d) All of the above
- 10) Fishes are available in -----
 a) Estuarine water
 b) Fresh water
 c) Marine water
 d) All of the above