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**SUBJECT CODE NO:- 2188**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**B.Sc. T.Y (Sem-V)**  
**Examination March/April-2022 (To Be Held In June/July-2022)**  
**Fishery Science Paper-XVI**  
**Modern Trends in Fishery Science**

[Time: 1:53 Hours]

[Max. Marks: 50]

Please check whether you have got the right question paper.

- N.B
- 1) Attempt all questions
  - 2) Draw the diagrams whenever necessary
- Q.1 Give a detailed account of sex-determination 20
- OR
- Write in detail Karyotyping in fishery science 20
- Q.2 Describe in detail Natural hybridization 20
- OR
- Write short notes on any four of the following 20
- a) Cryopreservation
  - b) Mono sex culture
  - c) Important hybrids
  - d) Sterile fish
  - e) Boiler fish
- Q.3 Multiple choice questions 10
- 1) Thawing is done in -----  
 a) Freeze b) water bath c) oven d) none of above
  - 2) Biodiversity treaty comes in force in the year -----  
 a) 1983 b) 1993 c) 1973 d) 1963
  - 3) When the fecundity is very high there is risk of ----  
 a) Overcrowding b) greater mortality c) lower population d) lesser mortality
  - 4) Acrocentric chromosome is having centromere at -----  
 a) Control b) terminal c) between the center and one end d) very close to the end
  - 5) What is the ratio between cry protectant and extender solution used in cryopreservation of gametes  
 a) 1:9 b) 9:1 c) 3:7 d) 2: 8
  - 6) Which component of cryopreservation protect the sperm during freezing by helping them to tolerate the low pressure?  
 a) Extender solution b) cryopreservation c) Both d) None of the above

- 7) Triploid grows ----- than the diploid counterparts
  - a) Faster
  - b) moderate
  - c) slower
  - d) none of the above
- 8) Broiler fish grows faster than the normal fish because they have -----
  - a) 1 N chromosome
  - b) 2N chromosomes
  - c) 3 N chromosomes
  - d) 4N chromosomes
- 9) In USA the increase in growth in the case of channel fish was 33% in -----generation selection
  - a) One
  - b) two
  - c) three
  - d) four
- 10) Dressing value of rohu is 52% whereas catle is having 48% than what will be dressing value of catle –rohu hybrid?
  - a) 48%
  - b) 58%
  - c) 50%
  - d) 52%