# VIDYASAGAR UNIVERSITY
## MIDNAPORE

## COMMON ENTRANCE TEST FOR PG ADMISSION, 2019

**Question Booklet No. 1614656**

**Subject: FISHERIES SCIENCE**
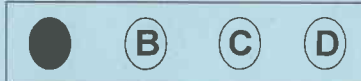
**Subject Code No.: 16**

Full Marks : 200

**Question Booklet Series:** **D**

Answer all the questions. Each question has the same weightage.
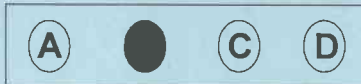
**Read the following instructions carefully before you start answering.**

### INSTRUCTIONS

1. The question Booklet is printed in four Series e.g. (A), (B), (C) and (D). The candidate has to indicate the Series of the question booklet in the space provided in the OMR Answer Sheet . For example, if the candidate gets Series (A) booklet, he / she has to indicate on the front side of the OMR Answer Sheet with Black ink ball point pen only as indicated below:

    ● Ⓑ Ⓒ Ⓓ

2. There are 50 questions inside this question booklet. Immediately after you have been instructed to open this question booklet, ensure that any page / question is not missing / not printed / torn /repeated. In case you find any defect anywhere in the question booklet, immediately get it replaced by the Invigilator.

3. Each question carries 4 marks. 1(one) mark will be deducted for each wrong answer(negative marking).

4. Write your Form No and put signature in the space provided.

5. Before answering, write down the necessary information on the OMR Answer Sheet as per your Application Form and Admit Card in the specific space provided.

6. With each question you will find 4 possible answers marked by the letters A, B, C & D. Read each question carefully and find out which answer, according to you, is correct / most appropriate / best. Indicate your answer by darkening the appropriate circle completely in the OMR Answer Sheet corresponding to the question. For marking answers, use black ink ball pen only. If 'B' is the correct answer in a case, mark as below:

    Ⓐ ● Ⓒ Ⓓ

7. Do not fold or make any stray marks on the OMR Answer Sheet.

8. You can use the blank space of the last page for rough work. Do not tear it off from the Question Booklet.

9. After the examination has been over, you must submit OMR Answer Sheet to the Invigilator.

10. OMR Answer Sheet is designed for computer evaluation. If you do not follow the instructions given above and shown in the OMR Answer Sheet, it may make evaluation by computer difficult. Any resultant loss to the candidate on the above account shall be of the candidate only.

11. No candidate shall be allowed to use Mobile phone. Log tables or Calculator of any description in the examination hall / room.

1. The compound responsible for pleasant flavor in fish flesh is
   (A) ADP                (B) ATP                (C) GTP                (D) IMP

2. The adoption of mid-level technology, partial dependence on natural productivity, fertilization, supplementary feeding, with stock manipulation, medium level inputs and medium rate of production, the culture practices is known as,
   (A) Intensive farming              (B) Extensive farming
   (C) Semi-intensive farming         (D) Super intensive farming

3. Saving-cum–Relief scheme (SCR) provides financial support to fishers during
   (A) Active fishing season          (B) Lean fishing season
   (C) Pre-monsoon season             (D) Winter season

4. Fish maws prepared from
   (A) Liver          (B) Kidney          (C) Intestine          (D) Air-bladder

5. LSF is stand for
   (A) Liquid Solvent Fish            (B) Liquid Seaweed Fertilizer
   (C) Liquid Solvent Fertilizer      (D) Liquid  Super Freezer

6. The most oxygen demanding waste is
   (A) Domestic sewage                (B) Aquaculture sewage
   (C) Agriculture sewage             (D) All of these

7. Fishes are usually
   (A) Ureotelic and Uricotelic       (B) Amminotelic and Ureotelic
   (C) Ureotelic                      (D) Uricotelic

8. Which of the following items is an antioxidant of fish oil-
   (A) Butylated hydroxyl anisole     (B) Phospholipids
   (C) Trisodium citrate              (D) Triglyceryl alcohol

9. The two most important qualities of the fish pellets are
   (A) Color and size                 (B) Smell and taste
   (C) Hardness and water stability   (D) Cost and availability

10. Suitable freezing method for small and even sized prawns is
    (A) Plate Freezer     (B) Air blast freezer     (C) Fluidized freezer     (D) Cryogenic freezer

11. The level of rancidity in fish during storage can be determined by estimating
    (A) Biological values             (B) TBA value
    (C) Total fatty acid values       (D) Total amino acid value

12. Criteria for ideal fishing gears are:
    (A) Highly selective for the target species and their sizes and habitats
    (B) Negligible direct or indirect impact on non- target species
    (C) Effective, giving high catches of target species at lowest possible cost
    (D) All of these

13. Critical nutrients in the feeds are
    (A) Protein                       (B) Carbohydrates
    (C) Vitamins                      (D) Methionine and lysine

14. Which of these programs is used to conserve a species facing extinction?
    (A) Captive breeding    (B) Natural resources    (C) Natural breeding    (D) Water pollution

15. The package used for packaging of frozen shrimp is
    (A) Tin can       (B) Duplex cartoon       (C) Drums       (D) Aluminum can

16. The main objectives of National scheme for Welfare of Fishermen to provide basic amenities are:
    (A) Housing       (B) Drinking water       (C) Community hall       (D) All of these

17. TMAO breaks down in to TMA immediately after death in
    (A) Murrels       (B) Mullets       (C) Shrimp       (D) Sardines

18. The Department of Ocean Development (DOD) was established in
    (A) 1961       (B) 1971       (C) 1981       (D) 1991

19. In India the best aquarium is located at
    (A) ZSI, Kolkata       (B) Tarapur, Mumbai       (C) Chennai       (D) Vishakhapatnam

20. Role of Fisheries Co-operatives for fisheries development are:
    (A) To Provide Finance to the Member of Fishermen
    (B) To Motivate Fishermen to Organize Fisheries Co-operatives
    (C) To Provide Fish Seeds, Nets and Boating Materials, Inputs and Equipment
    (D) All of these

21. BOD test is an
    (A) Empirical test       (B) Approximate test       (C) Accurate test       (D) All of these

22. Which of the following are abiotic factors of an aquatic ecosystem?
    (A) Temperature, rainfall, pH, nutrients       (B) Temperature, rainfall, pH, food
    (C) Temperature, rainfall, pH, pathogen       (D) Temperature, rainfall, pH, virus.

23. The community development program was launched in India in
    (A) 1950       (B) 1952       (C) 1954       (D) 1956

24. Enzyme that acts on myofibrillar protein during chilling
    (A) Calpain       (B) ATPase       (C) Carboxypeptidase       (D) Adenylate kinase

25. Market at which buyers and sellers not aware of offers made by others and price of commodity will be change at different price, commonly known as
    (A) Imperfect market       (B) Money market       (C) Market profit       (D) Perfect market

26. Which mode of sewage-fed fish culture is scientifically beneficial?
    (A) Single stocking with single harvesting
    (B) Multiple stocking with multiple harvesting
    (C) Single stocking with single or multiple harvesting,
    (D) Single or multiple stocking with multiple harvesting pattern

27. Primary lymphoid organ in fish is
    (A) Pituitary       (B) Thymus       (C) Bone marrow       (D) Pancreas

28. Which of the following laws are implemented to restore the coastal environment?
    (A) Maritime Zones of India Regulation of Fishing by Foreign Fishing Vessel Act 1981.
    (B) The Coastal Regulation Zone Notification, 1991
    (C) Coast Guard Act, 1978
    (D) Marine Fisheries Regulation Acts, 1978

29. Nitrogen fertilizers are preferred as they are
    (A) It is easily soluble in water
    (B) Non toxic to organisms
    (C) It does not have bad odours
    (D) It is easily available in market and cheaper

30. The relationship between two or more variables is called
    (A) Correlation
    (B) Co-efficient
    (C) Binomial variable
    (D) Standard Deviation

31. Which one is the leading state in terms of inland fish production?
    (A) Andhra Pradesh    (B) Tamil Nadu    (C) West Bengal    (D) Gujrat

32. The best food for fry of *Catla catla* is
    (A) Phytoplankton    (B) Zooplankton    (C) Rice bran    (D) Wheat bran

33. Aerial traps are used for catching
    (A) Murrels    (B) Mullets    (C) Flying fish    (D) All of these fishes

34. Anti-Nutritional factors are found in
    (A) Soybean meal    (B) Fish meal    (C) Shrimp meal    (D) Blood meal

35. The National fish of India is
    (A) Indian major carps    (B) Indian sardine    (C) Indian mackerel    (D) Indian shad

36. The concept of Extension Education process was developed by
    (A) Wilson M. C.    (B) Peter D.C.    (C) J. Paul Leagans    (D) Johnson R. L

37. The most frequently occurring value is called
    (A) Mean    (B) Median    (C) Mode    (D) Range

38. Foods with low pH values are more susceptible to spoilage by
    (A) Protozoan    (B) Fungi/Molds    (C) Insects    (D) Bacteria

39. Carrying capacity of the pond means
    (A) The weight limit of fishes the pond can support
    (B) Productivity of the pond
    (C) Biomass of the pond
    (D) Algal production of the pond

40. All of the following are characteristics of a hard bottom community except
    (A) Rock or gravel substrate
    (B) All filter feeders
    (C) Turbulent water
    (D) Organic rich sediment

41. Which is the leading countries for inland capture fisheries production per unit water area?
    (A) Bangladesh    (B) Vietnam    (C) Sri Lanka    (D) India

42. Which anchor is commonly used in inland fishing craft?
    (A) Grapnel anchor
    (B) Mushroom anchor
    (C) Delta anchor
    (D) CQR plough anchor

43. A fishermen village may consist of
    (A) Not less than 10 houses
    (B) Minimum 05 houses
    (C) Not less than 20 houses
    (D) Not less than 50 houses

44. Number of larval stages in *Macrobrachium rosenbergii* is
    (A) 11    (B) 13    (C) 8    (D) 15

45. The Egyptians were probably the first in the world to culture fish as far back as:
    (A) 2500 B.C        (B) 2000 B.C        (C) 1500 B.C        (D) 1000 B.C

46. Which fish act as scavenger?
    (A) Catla           (B) Rahu            (C) Silver carps    (D) Magur

47. Which one is the non-components of National scheme for welfare of fishermen?
    (A) Development of Model Fishermen Villages
    (B) Personal medical facility
    (C) Group Accident Insurance for Active Fishermen
    (D) Training & Extension

48. Birds are indicator of
    (A) Heavy metal pollution           (B) Oil pollution
    (C) Thermal pollution               (D) Radioactive pollution

49. Which is the direct method for age and growth determination of fish?
    (A) Petersen method                 (B) Integrated method of Pauly
    (C) Length Frequency method         (D) Tagging or Marking method

50. *Clostridium botulinum* is responsible for
    (A) Inflammations   (B) Infection   (C) Intoxication   (D) All of these