Paper Code:5802

M. Sc. Sem-III (OLD Course)

July-sep- 2021

Subject: Zoology

MSZOO302CC: FISHERIES SCIENCE AND TECHNOLOGY (FST)

કુલ સમય :– ૬૦ મીનીટ કુલ પ્રશ્નો : ૫૦ વિદ્યાર્થીએ ટીક કરવાના પ્રશ્નો : ૩૫

નોંધ : વિદ્યાર્થીએ માત્ર ૩૫ પ્રશ્નો જ ટીક કરવાના રહેશે. જો વધારે ટીક કરેલ હશે તો પ્રથમ ૩૫ પ્રશ્નો જ ગણતરીમાં લેવામાં આવશે.

1 National Fisheries Development Board was established in the year….?
a. 1999 b. 2011 c. 2001 d. 2006

2 _____organ in fishes acts as a storage organ for fats and carbohydrates besides its role in digestion.
a.Gall bladder b.Pyloric caeca c. Liver d. Spleen

3 What is the approximate protein content in fish?
a. 50-60% b. 60-70% c. 13-20% d. 80-90%

4 Which of the following factors are responsible for the heavy mortality of fish fries in nursery ponds?
a. Lack of suitable food in pond b. Overgrowth of plankton
c. Decreased oxygen concentration in water d. All of the above

5 Cartilaginous skeleton is a characteristic of?
a. Chondrichthyes b. Osteichthyes c. Both a and b d. None of the above

6 Dipnoi are sometimes also called as……
a. Sword fish b. Flying fish c. Lung fish d. Catfish

7 How long is the coastline of Gujarat?
a. 1500 km b. 1750 km c. 1200km d. 1600km

8 Spiracles is absent in ……..
a. Chondrichthyes b. Osteichthyes c. Both a and b d. None of the above

9 Which of the following hormone is not used in induced breeding by hypophysation?
a. Follicle stimulating hormone b. Luteinising hormone
c. Adrenalin hormone d. Human chorionic gonadotropin hormone

10 In sharks the pairs of gill filaments are separated by
a. Fleshy septum b. arches c. Lamellar membranes d. Epithelial cells

11 Which country has the highest fish production from Indian Ocean?
a. India b. Thailand c. Bangladesh d. Sri Lanka

12 Which type of caudal fin is present in shark fish?
a. Homocercal b. Heterocercal c. Diphycercal d. None of the above

13 Which country comes under Low Income Food Deficit Countries (LIFDCs)?
a. USA b. Russia c. China d. Japan

14 The first step in the fish culture is the _____ of fishes.
a. Building hatching pit b. Breeding c. Fish fry transport d. None of the above

15 Porcupine fish is common name for……
a. *Echeneis* b. *Tetrodon* c. *Diodon* d. None of the above

16 What should be the qualities of culturable fish?
a. should have ability to feed on natural food
b. should be fast growing and can attain good length and weight both
c. should be palatable and much nutritive d. All of the above

17 Hagfishes belongs to the order
a. Petromyzontiformes b. Clupeiformes c. Myxiniformes d. Perciformes

18 What does FAO stand for?
a. Field of Agriculture and origin b. First Application Officer
c. Forest Agreement Operation d. Food and Agriculture Organization

19 Which state has the highest inland fisheries production?
a. Gujarat b. Tamil Nadu c. West Bengal d. Uttar Pradesh

20 Which of the following is not the aim of fish culture?
a. To obtain maximum yield of fish. b. To obtain palatable and highly nutritive fish flesh.
c. To conserve fishes d. By products of fishing industry.

21 In the case of inland fisheries, India occupies the _____ in the world.
a. 1st position b. 10th position c. 3rd position d. 2nd position

22 Which of the following is a fresh water prawn?
a. *Macrobrachium rosenburgii* b. *Parapenaeopsis sculptilis*
c. *Parapenaeopsis stylifera* d. *Palaemon fluminicola*

23 Bombay duck is a common name for ……..
a. *Harpodon* b. *Lepidosteus* c. *Acipenser* d. None of the above

24 What is the full form of EEZ?
a. Exclusive Economic Zone b. Exclusive Ecological Zone
c. Extensive Economic Zone d. None of the above

25 In India fish culture started in which state?
a. Gujarat b. Kerala c. Goa d. West Bengal

26 Which of the following is true for Gnathostomata?
a. without true jaws or paired appendages b. animals with well-developed jaws
c. have protrusible tongue d. have three chambered heart

27 What is the full form of FFDA?
a. Fish Farmers Development Agency b. Fishing and Farming Dairy Agency
c. Facultative Farmers for Development Agency d. Farmer Functioning and Development Agency

28 The example of Superclass Agnatha is:
a. lampreys b. sharks c. tuna d. dolphin

29 What is the function of Ampullae of Lorenzini?
a. Vision b. Thermoreception c. Olfaction d. Balancing of body

30 The best quality pearls are known as….
a. Lingha Pearl b. Akoya pearl c. Tahiti pearl d. None of the above

31 Which of the following is the largest sea prawn species in India?
a. *Penaeus indicus* b. *Penaeus monodon* c. *Metapenaeus affinis* d. *Metapenaeus dobsoni*

32 India has got an EEZ of
a. 2.02 m sq.km b. 2.05 msq.km c. 2.0 m sq.km d. 2.1 m sq. km

33 How many cranial nerves are there arising from the fish brain?
a. 5 pairs b. 12 pairs c. 8 pairs d. 10 pairs

34 What does pearl comprise of?
a. Water 2-4% b. Organic matter 3.5-5.9% c. Calcium carbonate 90% d. All of the above

35 The central nervous system of fish consists of?
a. Brain b. Spinal cord c. Both a and b d. None of the above

36 The four chambers of fish heart includes……
a. Left and right auricles, left and right ventricles b. Left and right atrium, left and right ventricles
c. Sinus venosus, auricle, ventricle and conus arteriosus d. None of the above

37 _____ is secreted by the epithelial layer of mantle resulting into pearl formation
a. Nacre b. Amber c. Mucus d. None of the above

38 The following state has the highest marine fish production in India.
a. Maharashtra b. Gujarat c. Kerala d. Tamil Nadu

39 Prawns belong to which group of organisms?
a. Crustacea b. Cetacea c. Gastropoda d. Chelonia

40 Organisms of which phylum are reared for pearl culture?
a. Arthropoda b. Mollusca c. Echinodermata d. Chordata

41 how many gill pouches are present in Scoliodon?
a. 5 pairs b. 6 pairs c. 8 pairs d. 7 pairs

42 Isinglass is a gelatinous material obtained from which part of fish?
a. Stomach b. Liver c. Air bladder d. Rectum

43 *Scoliodon* posses which type of scales?
a. ctenoid b. Placoid c. Ganoid d. cycloid

44 Which of the following is not a type of fish scale?
a. ganoid b. Placoid c. Cycloid d. crescent

45 The fish liver oil is good source of….
a. Vitamine A and D b Vitamine C and E c. Vitamine B12 d. None of the above

46 What is the function of spleen in fishes?
a. produces lymphocytes b. produces leucocytes
c. produces melanocytes d. none of the above

47 Which of the following is an example of exotic species?
a. *Labeoa rohita* b. *Hilsa ilisha* c. *Cyprinus carpio* d. *Catla catla*

48 What type of teeth are present in Scoliodon?
a. Homodont b. Polyphyodonty c. Lyodont d. All of the above

49 The major food fishes of India include?
a. Catla b. Labeo c. Cirrhina d. All of the above

50 In which of the following method the fishes are dried at 0^{o}C?
a. Refrigeration b. Deep-freezing c. Freeze drying d. None of the above