a. Smoking

c. Salting

## SET D

Marks: 20

 $1 \times 20 = 20$ 

## M.Sc. ZOOLOGY THIRD SEMESTER PARASITOLOGY, ECONOMIC ENTOMOLOGY & AQUATIC BIOLOGY MSZ-302

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs. Full Marks: 70 Objective ) Time: 30 mins. Choose the correct answer from the following: Vascular plant that floats freely in the water are called: a. Helophytes b. Amphiphytes c. Neuston d. Nymphaeids Among macroinvertebrates, dipterans are: a. Grazers b. Shredders c. Collectors d. Filterers In lake stratification, thermocline is also known as: b. Hypolimnion a. Epilimnion c. Metalimnion d. Stratilimnion Time of adult Sal borer, Hoplocerambyx spinicornis is: b. Winter a. Autumn c. Monsoon d. All of the above Destructive stage of teak defoliator, Hyblaea puera is: a. Adult stage b. Pupal stage d. Larval stage c. Egg stage Which of the following silk cocoon cannot be reeled? b. Eri a. Mulberry d. Tasar c. Muga Maximum amount of lac can be obtained from: a. Male lac insect b. Female lac insect c. Nymph d. Egg Prominent symptom of muscardine disease of silk worm is: b. Polyhedra on blood a. Pepper like spots c. Chalky white mummified body d. Bead like jointed excreta Rice grasshopper lays their eggs on: a. Paddy leaf b. Paddy seed c. Soil d. Paddy straw 10. The oldest method of fish preservation is:

b. Drying

d. Canning

1.	Japanese encephalitis virus belongs to: a. Flavivirus c. Both a and b are correct		RNA virus Only b is correct
	Schizogony is a mechanism of: a. Meiosis cell division c. Binary fission	d.	Multiple fission All are correct
13.	Infection that may be transmitted from Hun a. Zoonosis c. Zooanthroponosis	ь.	to other animals are called as: Anthropozonosis Parazoonosis
14.	Birth of mummified fetuses in swine is a clina. Ascaris infection c. Toxoplasma infection	b.	I symptom of: Dengue infection Japanese encephalitis infection
15.	<ul><li>a. Sporozoit</li><li>c. Ookinate</li></ul>	d.	Microgamates Microcryptomerozoit
16.	Host which makes the parasite available for a. Reservoir host c. Accidental host	b.	nsmission to another host is: Natural host Transport host
17.	Salinity of 50+ppt is found in: <ul><li>a. Fresh water</li><li>c. Saline water</li></ul>		Briny water Brackish water
18.	Freshwater has salinity level of: a. 3-5% c. 26-28%		Less than 0.05% 1-3%
19.	Dissolved oxygen is formed in water by: <ul><li>a. Diffusion</li><li>c. As waste product from photosynthesis</li></ul>		Aeration All of the above
20.	Typha species, an aquatic macrophyte is an a. Emergent macrophyte c. Floating leaved macrophyte	b.	Submerged macrophyte None of the above

## [Descriptive]

Marks: 50 Time: 2 hr. 30 mins. [ Answer question no.1 & any four (4) from the rest ] 2+8=10 1. Name four microbial disease of silkworm. Mention the causative agent and symptom of the disease caused by protozoa. 2. What are the common sources of parasitic infection? What do you 3+2+5=10 mean by pathogenesis? Write about 5 types of pathogenic mechanism. 10 3. With the help of labelled diagram, write about lake stratification and its mixing pattern. 2+8=10 4. What is a plankton? Draw four types of plankton. Describe them according to their size, citing examples. Give morphological classification of macrophytes. Describe their 5+5=10 aquatic adaptation and functions. 5+21/2+21/2=10 6. Describe the life cycle of Plasmodium with proper diagram. Describe the prophylaxis and control measure of Malaria. 6+4=10 7. Describe the life cycle and damage done by any one of sugar cane or bamboo pests. 8. What is composite fish culture? Describe briefly about different types 2+6+2=10 of composite fish culture techniques. Describe about the benefits of composite fish culture technique.

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