

ZOOLOGY

UNIT - V

- 1 Haemozoin is released into blood during the infection of plasmodium vivax for every : **(E-2005)**
 1) 24 Hrs 2) 48 Hrs 3) 72 Hrs 4) 12 Hrs
- 2 A triploblastic pseudocoelomate, bilaterally symmetrical human parasite which is oviparous and the transmission is by contact. It is : **(E-2006)**
 1) Filarial worm 2) Hook worm 3) Palalo worm 4) Tape worm
3. Fasciola hepatica is a digenetic parasite. Sheep and snail are two hosts. Snail is **(E-2007)**
 (1) Intermediate host (2) Paratenic host (3) Vector host (4) Reservoir host
- 4 Note the following :
 (i) During gametogenesis reduction division occurs and formed gametes are haploid according to Bano.
 (ii) Erythrocytic cycle begins with the entry of either cryptozoites or micrometacryptozoites.
 (iii) Maturation of gametocytes generally take place in spleen and bone marrow.
 (iv) The prepatent period is about 8 days.
 Which of the above statements are true for plasmodium vivax ?
 (1) (i), (ii) and (iii) (2) (ii), (iii) and (iv) (3) (i), (iii) and (iv) (4) (i), (ii) and (iv)
- 5 Certain stages of Plasmodium vivax may survive for a long period in the liver of man as dormant stages and on reactivation enter into one of the following cycles : **(E-2008)**
 1) Erythrocytic schizogony 2) Exoerythrocytic schizogony
 3) Cycle of Ross 4) Gametogony
- 6 Which one of the following abnormalities in the host is associated to Wuchereria, Plasmodium and Fasciola respectively ? **(E-2008)**
 A. Parasitic castration B. Hyperplasia C. Febrile paroxysm
 D. Peritonitis E. Lymphangitis
- The **correct** match is
 1) E, C and B 2) E, C and A 3) B, D and E 4) C, D and B
- 7 From the following a digenetic parasite is **(E-2008)**
 1) Taenia solium 2) Wuchereria bancrofti
 3) Fasciola hepatica 4) Plasmodium vivax
- 8 Which stage in the life cycle of Taenia solium, infects the intermediate host ? **(E-2009)**
 1) Hexacanth larva 2) Oncosphere
 3) Cysticercus larva 4) Miracidium
9. **Assertion (A)**: Predation is an interspecific interaction with a feeding strategy. **(E-2009)**
Reason (R) : Predator and their prey maintain fairly stable population through time and rarely one population become abundant or scarce .
 1. Both A and R are not correct
 2. Both A and R are correct and R is a correct explanation of A
 3. only A is true but R is not correct
 4. Both A and R are correct and R is not a correct explanation to A

UNIT- VIII

- 10 The type of population where pre-reproductive animals occur in large numbers is : **(E-2005)**
 1) Declining 2) Fluctuating 3) Stable 4) Growing
- 11 Earlobes of arctic fox are smaller than that of tropical fox. This is : **(E- 2006)**
 1) Jordon's Rule 2) Bergman's Rule 3) Gloger's Rule 4) Allen's Rule

12 Match the following : (E- 2006)

Set-I

- a) Vant Hoff's rule
b) Bergmann's rule
c) Allen's rule
d) Jordan's rule

Set-II

1. Body size
2. Metabolic rate
3. Development
4. Organ size

The **correct** set is :

- 1) a - 1, b - 2, c - 4, d - 3
2) a - 2, b - 1, c - 3, d - 4
3) a - 3, b - 4, c - 2, d - 1
4) a - 2, b - 1, c - 4, d - 3

13 Match the following : (E-2007)

Set - I

- (a) Allen's rule
(b) Bergman's rule
(c) Jordan's rule
(d) Gloger's rule

Set - II

- (1) Fishes of cooler waters have more vertebrae than those found in hot waters
(2) Temperature influences pigmentation in animals
(3) Temperature affects various organs of animals
(4) Body size of homeotherms in cold region is large whereas those living in hot regions are small.

The **correct** match is

- (1) a-2 b-1 c-3 d-4
(2) a-4 b-2 c-3 d-1
(3) a-3 b-4 c-1 d-2
(4) a-4 b-3 c-2 d-1

(E-2007)

14 **Statement (S)** : Daphnia populations in a water body, at different seasons of an year showed marked variations in their body morphology.

Reasons (R) : Cyclomorphosis in some planktonic organisms is influenced by the variations in temperatures prevailing in their water bodies at different seasons.

The **correct** answer is

- (1) Both (S) and (R) are true and (R) explains (S).
(2) Both (S) and (R) are true but (R) cannot explain (S).
(3) Only (S) is correct but not (R).
(4) Both (S) and (R) are wrong.

15 The average trophic efficiency of transfer of energy from one trophic level to the higher trophic level is called (E- 2008)

- 1) Assimilation efficiency
2) Exploitation efficiency
3) Linderman's trophic efficiency rule
4) Gross primary production

16 From the following fish, identify the one with a glomerular kidney ? (E- 2008)

- 1) Sphyrna
2) Tilapia
3) Cirrhinus
4) Exocoelus

17 Wild life conservation aims at : (E- 2008)

- a) Maintaining the ecological process
b) To enrich the wildlife diversity with exotic species
c) Preventing migration of species
d) Maintaining the diversity of life.

The **correct** statements are

- 1) a, b
2) b, c
3) c, d
4) a, d

18 The growth of population without limit at its maximal rate and also that, rates of immigration and Emigration are equal, then it is called (E-2009)

1. Carrying capacity
2. Biotic potential
3. Positive growth
4. Negative growth

19 The state of Gujarat has river, desert, forest and lake ecosystems, thus exhibiting a diversity of life. Which measure do you use to denote total diversity in such a case (E-2009)

1. **a** (Alpha)
2. **b** (Beta)
3. **g** (Gamma)
4. **d** (Delta)