ZOOLOGY 2009

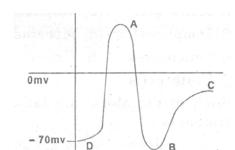
		220: 2007			
41.	Reason (R): The concept of Biological s	concept helps us to ask how species are formed. pecies focuses our attention on the question of how			
	reproductive isolation comes about.				
	The correct answer is: (1) Poth A and P are correct but P does to	act avalain A			
	(1) Both A and R are correct, but R does i	not explain A			
	(2) Both A and R are not true				
	(3) Only A is true but R is not correct	va avvalamation to A			
42	(4) Both A and R are correct and R is a true	<u>=</u>			
42.	In ophiuroidea branched arms are seen in				
	(1) Gorgonocephalus	(2) Clypeaster			
	(3) Salmacis	(4) Gorgonia			
43.	Note the following:				
	(a) It is a fresh water, metamerically segm	nented protostome.			
	(b) The c1itellum is absent.				
	(c) It is unisexual.				
	(d) Its larval form is Trochophore.				
	(e) The nervous system is found in the ep				
	Which of the above is true of "Paddle wor	rm" ?			
	(1) a, b and e (2) b, c and e	(3) b, c and d (4) c, d and e			
44.	Match the following:				
	List-I	List-II			
	(A) Green glands	(I) Scolopendra			
	(B) Amphids and Phasmids	(II) Respiratory organ			
	(C) Ctenidia	(III) Shell protein			
	(D) Poison claw	(IV) Excretory organs			
	(E) Concholin	(V) Sense organs			
	The correct match is:				
	A B C D E				
	(1) IV V II I III				
	(2) I III IV V II				
	(3) II IV V III I				
	(4) III IV V II I				
45.	The type of connective tissue that is associated associated as the state of the type of type of the type of type of the type of type o	viated with the Umbilical cord is:			
ъ.	(1) Areolar connective tissue	(2) Jelly-like connective tissue			
	(3) Adipose connective tissue	(4) Reticular connective tissue			
46.	Note the following:	(4) Reficular conflective tissue			
40.	9	yaali of tha lungs			
	(a) It forms the lining of the cavities of alveoli of the lungs.(b) It forms the lining of wet surfaces like buccal cavity and oesophagus.				
	(c) It occurs in the ducts of sweat glands.				
	(d) It forms the lining of salivary glands and sweat glands.				
	(e) It is a loose connective tissue.				
	Which of the above are associated with si				
47	(1) a and d (2) band c	(3) c and a (4) d and e			
47.	female gamont is:	nuclei formed at the end of prezygotic nuclear division in			
	(1) 4 (2) 6	(3) 8 (4)5			
48.	Which stage in the life cycle of Taenia so				
	(1) Hexacanth larva	(2) Oncosphere			

49. Assertion (A): Predation is an interspecific interaction with a feeding strategy. *Reason (R): Predation. and their prey maintain fairly stable population through time and rarely- one population become abundant or scarce. The correct answer is: (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 correct, R is not correct (4) Both A and Ra are correct, but R is not a correct explanation of A 50. In pheretima, gizzard, buccal cavity, pharynx, oesophagus, pharyngeal nephridia receive the blood from thisblood vessel: (1) Supra oesophageal (3) Dorsal Blood (4) Subneural (5) The location of lymph glands in Pheretima is: (1) 4th, 5th and 6th segments (2) 10th to 20th segments (3) 26th to the last segments (4) 13th segment (5) Note the following: (a) Fenestra (b) Pedical (c) Lacinia (c) Galea (f) Mentum (g) Palpifer (h) Cardo (i) Glossa Which of the above found in the first pair of maxillae in the case of Cockroach? Which of the oblowing: An insect whose mouthparts are bitting and chewing type in the larval condition, while they are siphoning type in the adult and this insect gives an economically important substance during ye another stage of its development. The insect is: (1) Anopheles (2) Laccifer (3) Bombyx (4) Apis 54. Note the following: (a) Monocytes (b) Trophocytes (c) Lymphocytes (d) Myectocytes (e) Leucocytes (f) Oenocytes (g) Urate cells Which of the above are fat cells in Peripanata? (1) a, c, e and f 55. In cockroach which of the following is the principal motor centre: (1) Supraoesophageal ganglia (2) Suboesophageal anglia (3) Metathoracic ganglia (4) Abdominal ganglia (5) Borthoptorest (6) Leucocytes (7) Uranying capacity (8) Both of the principanata are and also that, rates of immigration and emigration are equal, then it is called: (1) Carrying capacity (2) Biotic potential (3) Positive growth (4) Abdominal ganglia (5) Both of Amphibians found in Indian Peninsula is: (1) Apphima ((3) Cysticercus larva	(4) Miracidium			
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(3) Hyla and Ambystoma (4) Psittacus and Apteryx	58.	The pair of Amphibians found in Indian	n Peninsula is:			
		(1) Amphiuma	(2) Tylototriton and Ichthyophis			
		(3) Hyla and Ambystoma	(4) Psittacus and Apteryx			
59. In coelomates the problem of diffusion of food from gut to tissues is solved by:	59.	In coelomates the problem of diffusion	of food from gut to tissues is solved by:			

(1) The presence of coelomic fluid
(2) Churning the food within the body cavity
(3) Developing a circuilatory system
(4) Developing gut associated glands
Ovoviviparity is seen in this caecilian
(1) Wuchereria (2) Typhlonectus (

61

60.



Identify the region where all Na^+ channels are reactivated but closed and all K^+ channels are closed.

(3) Ichthyophis

(1) D

(2) C

(3) B

(4)A

62. A hormone secreted by the endocrinal cells of duodenal mucosa which influences the release of pancreatic juice is :

(1) Relaxin

(2) Cholecystokinin

(3) Secretin

(4) Progesteron

(4) Uraeotyphlus

63. With the help of the below given, identify the correct sequence, that leads to the formation of blood clot:

(a) Blood clot

(b) Injury

(c) Factor II

(d) Factor III

(e) Factor IV

(f) Fibrinogen

(g) Thrombin

(1) $b \rightarrow c \rightarrow d \rightarrow f \rightarrow g \rightarrow a$

(2) b
$$\rightarrow$$
c \rightarrow g \rightarrow f \rightarrow ad $\uparrow \leftarrow +e$

$$(3) d \rightarrow b \rightarrow c \rightarrow g \rightarrow f \rightarrow a$$

 $\uparrow e^+$

$$(4) b \rightarrow d \rightarrow c \rightarrow f \rightarrow g \rightarrow a$$

 $\uparrow e^+$

64. Left shift of oxyhaemoglobin curve is noticed under:

(1) Normal temperature and pH

(2) Low temperature and high pH

(3) Low pH and high temperature

(4) Low pH and low temperature

65. Hypochromic microcytic anaemia and Leucopenia are caused by the deficiency of respectively

(1) Pyridoxine and Riboflavin

(2) Pyridoxine and Folacin

(3) Biotin and Folacin

(4) Biotin and Cyanocobalamin

66. Which of the following given bones divide olfactory capsules in rabbit into left and right halves

(a) nasals

(b) premaxillae

(c) maxillae (

d) mesethmoid

(1) a

(2) d

(3) b

(4)c

67. The glycoprotein layer between oocytes and cuboidal cells in ovary of rabbit is:

(1) Membrana granulose

(2) Zona pellucida

(3) Corpus luteum

(4) Zona reticulata

68. During the muscle contraction which zone decreases:

(1) I zone

(2) Z zone

(3) H zone

(4) M zone

69. Note the following:

(a) Skin

(b) Phagocytes

(c) B-cells

(d) Inflammation

70.71.72.	(e) Antibodies (f) T-cells (g) Fever (h) Antimicrobial proteins (i). NK-cells (j) Secretions Identify the factors involved in 2nd line of defense (1) b, d, g and i (2) b, c, e and I (3) d, f, h and j (4) c, e, g and h The urine is: (1) Hypotonic to blood and Isotonic to medullary fluid (2) Hypertonic to blood and Isotonic to medullary fluid (3) Isotonic to blood and Hypotonic to medullary fluid (4) Isotonic to blood and Hypertonic to medullary fluid The extinct reptiles without temporal fossae belong to: (1) Chelonia (2) Synaptosauria (3) Ichthyopterygia (4) Cotylosauria
73.	In the above given pedigree, assume that no outsider marrying in, carry a disease. Write the genotypes of II and III. (1) All X^dy (2) X^DY and X^DX^d (3) X^dX X^dy and X^dy (4) X^dX^d and X^dy Match the following: List-II
	(A) XX· XO, method of sex determination (I) + Heterogamtic (B) 1.5 X/A ratio (II) Turner's syndrome (C) Karyotype 45 (III) Hemiptera (D) ZW-ZZ method of sex determination (IV) Metafemale The correct match is:
	A B C D (1) I IV II III (2) III IV II I (3) IV I II III (4) I IV II III
74.	A woman with blood group 'O' has a child with blood group 'O'. She claims that a man with blood group 'N as the father of her child. What would be the genotype of the father, if her claim is right? (1) I ^O I ^O (2) I ^A I ^B (3) I ^A I ^O (4) I ^B I ^O
75.	A specific nucleotide sequence to which RNA polymerase attaches to initiate transcription of m-RNA from a gene:
76.	(1) Promoter gene (2) Structural gene (3) Operon (4) Regulator gene A selection that acts to eliminate one .extreme from an array of phenotypes is: (1) Disruptive (2) Directional (3) Stabilizing (4) Coevolution
77.	Assertion (A): The Theory of Survival of the Fittest is widely misunderstood.

Reason (R): Evolution does not always increase the chances of a species survival and species do not survive when such chances happen rapidly.

The correct answer is:

- (1) Both A and R are true, but R does not explain A
- (2) Only A is true, but R cannot explain A
- (3) Both A and R are true and R is a true explanation of A
- (4) Both A and R are not true
- In poultry first Deworming is usually done around this age: 78.
 - (1) 4 weeks
- (2) 8 weeks
- (3) 12 weeks
- (4) 16 weeks
- 79. The sequence of Nitrogen Bases(Triplet) on t-RNA is:
 - (1) Anticodon

- (2) Terminating codon

(3) Degenerate codon

(4) Initiating codon

Match the following: 80.

List-I

- (A) Sandwich ELISA
- (B) QRS Complex
- (C) Allograft
- (D) CT Scan

List-II tion between

- (I) Three dimensional image
- (II) Substrate linked antibody
- (III) Ventricular depolarisation
- (IV) Transplantation between non-identical individual

The correct match is:

- C D Α В (1) II III IV I (2) II IV I III
- II (3)IV Ш
- (4) II Ш IV Ι

ANSWERS

(41) 4	(42) 1	(43) 3 (44) 1	(45) 2	
(46) 1	(47) Del	(48) 2 (49) 2	(50) 3	
(51) 3	(52) 1	(53) 3 (54) 2	(55) 2	
(56) 2	(57) 3	(58) 2 (59) 3	(60) 2	
(61) 2	(62) 2	(63) 2 (64) 2	(65) 2	
(66) 2	(67) 2	(68) 3 (69) 1	(70) 2	
(71) 4	(72) 2	(73) 2 (74) 3	(75) 1	
(76) 2	(77) 3	(78) 2 (79) 1	(80) 1 or 4	