DXDR	CISE-I (Conceptual Questions)	Build Up Your Understanding						
1.	Zoological name of cockroach is:							
	(1) Glossina palpalis	(2) Periplaneta americana						
	(3) Musca nebula	(4) Apis indica						
	(e) nausea neessa	(·) ··Pio muleu						
2.	Diagonistic feature of insects is:							
	(1) Segmented body	(2) Chitin in body wall						
	(3) Three pair of legs	(4) One pair compound eyes						
	(b) Timee pair of legs	(1) one pair compound eyes						
3.	Which are the two common indian cocki	roaches?						
	(1) Periplaneta americana and Blatta ind							
	(2) Periplaneta indica and Blatta oriental							
	(3) Periplaneta orientalis and Blatta americana							
	(4) Periplaneta americana and Blatta on"entalis							
	(1) Templanear americana and Blanca on	Ontains						
4.	Characteristic of group insecta is:							
••	(1) Joined appendages	(2) 3 pair of jointed legs						
	(3) Chitinous exoskeleton	(4) Compound eyes						
	(5) Chillions Choskeleton	(1) Compound Cycs						
5.	Scientist who gave the name Periplaneta	is:						
	(1) Linneous (2) K.N. Bahel	(3) Bermister (4) D.Gir						
	(1) Zimiesus (2) 111 (1 Zune)	(1) 2.01						
6.	Tergum is joined on the sides by:							
••	(1) Pleuron	(2) Sternum						
	(3) Alimentary canal	(4) Muscles						
	(5) I minemary cumur	(1) Maseles						
7.	The plate situated between the eyes and	passing below that on the head of cockroach is called:						
	(1) Vertex (2) Frons	(3) Epicranium (4) Gena						
8.	The dorsal plate of skeleton found on the	abdomen of cockroach is called:						
	(1) Pleuron (2) Sternum	(3) Tergum (4) Vertex						
9.	Outer border of tergum bends downward	Is in cockroach and attaches with:						
	(1) Muscles (2) Sternum	(3) Pleura (4) Fat body cells						
		•						
10.	Mandibles of cockroach are:							
	(1) Short with grinding teeth	(2) Long and pointed						
	(3) Short without teeth	(4) Long and coiled						
		, , <u>, , , , , , , , , , , , , , , , , </u>						
11.	Head of cockroach according to its posit	ion is known as:						
	(1) Hypopharynx	(2) Hypocyrebral						
	(3) Hypognathus	(4) Supragnathus						
12.	Number of visible sternum present at the	abdomen of female cockroach is:						
	$(1) 6 \qquad (2) 7$	(3) 8 (4) 9						
13.	Tongue like structure in Periplaneta is:							
	(1) Maxilla (2) Hypopharynx	(3) Labium (4) Labrum						

14.	Which structure is known as lower lip of cockroach?									
	(1) Labrum	(2) Labium	(3) Mantum	(4) Submentum						
15.	Wings of cockroach a (1) Egg laying	are mainly helpful in: (2) Preying	(3) Finding the mate	(4) Protection						
16.	Periplaneta americana (1) Well developed w (3) Only first pair wir	_	entalis in: (2) Wings absent (4) Second pair wing	developed						
17.	Number of segments (1) 3	in cockroach leg: (2) 5	(3) 6	(4) 9						
18.	Undeveloped wings a (1) Housefly	are found in : (2) Cockroach	(3) Mosquito	(4) Blatta						
19.	Pseudopodia of Amod (1) Legs of cockroach (3) Spicules of Neuco	ı	(2) Teeth in rabbit(4) Suckers of Taenia							
20.	Plantulae are found in (1) Pretarsus	n cockroach upon : (2) Femur	(3) Trochanter	(4) Coxa						
21.	Most swollen segment (1)Tarsus	nt in leg cockroach is : (2) Coxa	(3) Femur	(4) Trochanter						
22.	In cockroach arolium (1) In digestion	is helpful in : (2) Respiration	(3) Locomotion	(4) Reproduction						
23.	Main character for the (1) Antennae	e distinction between r (2) Mandibles	nale and female cockro (3) Anal cerci	oach (4) Anal style						
24.	Anal styles are found (1) Housefly (3) Male cockroach	in:	(2) Female cockroach(4) Both male & female							
25.	Body segments are do (1) Hydra	efinite and well marked (2) Taenia	l in : (3) Earth worm	(4) Cockroach						
26.	In cockroach the audi (1) On legs	oreceptors are situated (2)Antenna	on: (3) Sensory receptor	(4) Anal cerci						
27.	The gynovalvular pla (1) 7 th tergum (3) 8 th tergum	tes in female cockroac	h are modification of: (2) 7 th sternum (4) 8 th sternum							

28.	Stink glands are four (1) Only in males	nd in : (2) Only in female	(3) In both	(4) None				
29.	Exoskeleton of cock (1) Cartilage	roach is made up of: (2) Cuticle	(3) Chitin	(4) Amino acids				
30.	Cockroach and other (1) Keratin	r insects have exoskele (2) Spongin	ton made up of: (3) Chitin	(4) Cuticle				
31.	In which part of coboth? (1) In head region	ockroach is present co	ompletely developed of (2) Thoracic region	endoskeleton and exoskeleton				
	(3) Abdominal region	n	(4) In head & thoracic regions					
32.	The body cavity of c (1) Pseudocoel (3) Hydrocoel	cockroach is called:	(2) Coelom (4) Haemocoel					
33.		wax located at the out	er surface of body wal (2) Oenocytes (4) Mycetocytes	1?				
34.	The fatbody of cock (1) Oenocytes (3) Trophocytes	roach contains :	(2) Mycetocytes (4) All the above					
35.	Hepatic caecae in co	ckroach are derived fro (2) Gizzard	om: (3) Midgut	(4) Proctodaeum				
36.	Saliva of cockroach (1) Lipase	contains enzyme: (2) Amylase	(3) Pepsin	(4) Trypsin				
37.	Salivary glands of co (1) Maxilla	-	(3) Labium	(4) Labrum				
38.	Mouth part of cockre (1) Piercing (3) Cutting & chewin		(2) Absorbing(4) Drinking					
39.	Cockroach is: (1) Omnivorous (3) Carnivorous		(2) Herbivorous(4) Sanguivorous					
40.	In cockroach food is (1) Crop (3) Mesenteron	crushed in which part	: (2) Gizzard (4) Oesophagus					
41.	In which part of alin (1) Anterior part	nentary canal of cockro	each invagination of cu (2) In midpart	tticle found ?				

	(3) In posterior part (4) Both in antherior and posterior part										
42.	The inner layer of gizzard of cockroach is covered by:										
	(1) By cuticle	(2) By mucous memb	orane								
	(3) By endoepithelium	(4) By peritrophic me	embrane								
43.	Maximum digestion takes place in which part of cockroach?										
	(1) In crop	(2) In Gizzard									
	(3) In mesenteron	(4) In oesophagous									
44.	, , , , , , , , , , , , , , , , , , ,										
	(1) Skin	(2) Trachea									
	(3) Plasma	(4) Respiratory pigmo	spiratory pigment								
45.	Allary muscles in cockroach are associated	or connected with:									
	(1) Trachea (2) heart	(3) Legs	(4) Alimentary canal								
46.	Number of pairs of spiracles in cockroach as	re:									
	(1) 4 (2) 6	(3) 8	(4) 10								
47.	In cockroach O ₂ is carried to tissue by:										
	(1) Haemoglobin and haemocyanin	(2) Blood plasma									
	(3) Tracheal tubes	(4) Diffusion through integument									
48.	Blood of cockroach does not contain haemoglobin because: (1) It respires through atmosphere (2) Respires through book lungs (3) It does not respire (4) It has some other means to carry oxygen direct into the tissues										
49.	Give the name of blood vessel, which arises from first chamber of heart in cockroach (1) Nephrocyte (2) Fenestrae (3) Ostia (4) Anterior aorta										
50.	Number of chambers in the heart of cockroa	nch:									
	(1) 5 (2) 9	(3) 13	(4) 16								
		. ,	` '								
51.	Blood circulation in insects:										
	(1) Flows in arteries and veins	(2) With red blood co	With red blood corpuscles								
	(3) Open type	(4) Absent									
52.	Heart of cockroach is:										
34.	(1) Four chamberd	(2) Vertral to gut									
	(3) Longitudinal & beaded	(4) Three chambered									
	(5) Longitudinai & ocaded	(+) Three chambered									
53.	The colour of haemolyph of cockroach is:										
	(1) Yellow (2) Red	(3) Green	(4) Colourless								
54.	Physiologically the heart of cockroach is:										

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	(1) Neurogenic		(2) Myogenic			
	(3) Epigenic		(4) Agenic			
55.	Main excretory produ	uct of cockroach is:				
	(1) Urea	(2) Ammonia	(3) Uric acid	(4) Amino acid		
56.	Function of Malpighi	ian tubules of cockroad	ch:			
	(1) Digestion	(2) Respiration	(3) Excretion	(4) Reproduction		
<i>5</i> 7.	Exeretory organs of o	cockroach are:				
	(1) Trachea	(2) Kidney	(3) Nephridia	(4) Malpighian tubules		
58.	The nerve cord of co	ckroach is:				
	(1) Double, ventral a		(2) Double dorsal and			
= 0	(3) Single, dorsal and		(4) Single, ventral an	d hollow		
59.		s helpful in sexual attra				
	(1) Hormone ecdyson (3) Juvenile hormone		(2) Pheromone (4) Anal cerci			
	(3) Juvenne normone	,	(4) Allai celei			
60.	Ommatida are found	in:				
	(1) Eyes of birds		(2) Eye of frog			
	(3) Eye of insects		(4) Eye of rabbit			
61.	Structural units found	d in the compound eve	of cockroach are calle	d ·		
UI.	(1) Rhabdom	(2) Cone cells	(3) Ommatidia	(4) Simple eye		
	(-)	(=) 0000000000		() ~ F , -		
62.	· -	s found in cockroach?	* * * * * * * * * * * * * * * * * * *			
	(1) Mosaic	(2) Super position	(3) Binocular	(4) None of them		
63.	Ommatidia are units	in the eyes of :				
00.	(1) Amphibians	(2) Mammals	(3) Insects	(4) Ashes		
	` '		, ,	· /		
64.		eye of insects is forme				
	(1) Dim light	(2) Bright Light	(3) Ocelli	(4) None		
65.	Foos which have vol	k in the centre surroun	ded by cytoplasm are o	ralled ·		
05.	(1) Centrolecithal	(2) Homolecithal	(3) Microlecithal	(4) Alecithal		
			· /	、		
66.	Ootheca is formed in	cockroach by:				
	(1) Phallic Gland		(2) Conglobate gland			
	(3) Utricular gland		(4) Collaterial Gland			
67.	Ootheca of Cockroad	ch has fertilized eggs, th	his numbers is:			
	(1) 6	(2) 8	(3) 16	(4) 24		
	, ,	,	` '	` ,		
68.		<u>=</u>	lt cockroach. How mar	•		
	(1) 10-12 times	(2) 9 times	(3) 6 times	(4) 3-4 times		

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69.	The type of egg in co (1) Microlecithal	ockroach is called: (2) Centrolecithal	(3) Isolecithal	(4) Telolecithal			
70.	Sexual dimorphism i	s distinct in : (2) Earthworm	(3) Sponge	(4) Cockroach			
71.	Conglobate gland is (1) Earth worm (3) Male cockroach	found in the reproduct	tive organs of: (2) Housefly (4) Female cockroac	h			
72.	Number of moulting (1) Less than 7	s in cockroach after ha (2) Upto 8	atching and developme (3) Upto 9	nt of complete animal are: (4) more than 10			
73.	How many ovarioles (1) 3	are found in each ova (2) 6	ary of cockroach?	(4) 16			
74.	Collaterial glands of (1) Fertilization (3) Copulation	cockroach help in:	(2) Formation of oot (4) Formation of oot				
75.	In the life history of (1) No Metamorphos (3) Complete metam		a) there is: (2) Gradual metamo (4) Anamorphosis	rphosis			
76.	Juvenile of cockroac (1) Tadepole	h is known as: (2) Amocyte	(3) Nymph (4) Naid				
77.	Life time of cockroad (1) Approximately 1 (3) 5 to 7.5 years app	year	(2) 3 to 3.5 years app (4) 10 years approx	prox			
78.	In which of the follo (1) Hydra	wing moulting is not f (2) Mosquito	Found ? (3) Housefly	(4) Cockroach			
79.	Life history of cockr (1) Ametaboly	oach represents : (2) Holometaboly	(3) Paurometaboly	(4) None			
80.	Common feature bet (1) Hermaphroditism (3) Excretion by nep		earthworm is: (2) Moulting of cuticle (4) Ventral nerve cord				
81.	Which has no skeleto (1) Cockroach	on ? (2) Mosquito	(3) Butterfly	(4) Jelly fish			
82.	Cockroach is: (1) Nocturnal and on (3) Nocturnal and ca		(2) Diurinal and omnivorous(4) None				

ANSWER KEY

EXERCISE-I (Conceptual Questions)														
1.	(2)	2.	(3)	3.	(4)	4.	(2)	5.	(3)	6.	(1)	7.	(2)	
8.	(3)	9.	(3)	10.	(1)	11.	(3)	12.	(2)	13.	(2)	14.	(2)	
15.	(4)	16.	(1)	17.	(2)	18.	(4)	19.	(1)	20.	(1)	21.	(2)	
22.	(3)	23.	(4)	24.	(3)	25.	(4)	26.	(4)	27.	(2)	28.	(3)	
29.	(3)	30.	(3)	31.	(1)	32.	(4)	33.	(2)	34.	(4)	35.	(3)	
36.	(2)	37.	(2)	38.	(3)	39.	(1)	40.	(2)	41.	(4)	42.	(1)	
43.	(1)	44.	(2)	45.	(2)	46.	(4)	47.	(3)	48.	(4)	49.	(4)	
50.	(3)	51.	(3)	52.	(3)	53.	(4)	54.	(1)	<i>55.</i>	(3)	56.	(3)	
57.	(4)	58.	(1)	59.	(2)	60.	(3)	61.	(3)	62.	(1)	63.	(3)	
64.	(2)	65.	(1)	66.	(4)	67.	(3)	68.	(1)	69.	(2)	70.	(4)	
71.	(3)	72.	(4)	73.	(3)	74.	(2)	<i>75.</i>	(2)	76.	(3)	77.	(2)	
78.	(1)	79.	(3)	80.	(4)	81.	(4)	82.	(1)					