

Test Booklet No. _____

This booklet consists of 150 questions and 20 printed pages.

RGUPET/2024/___/___

RGUPET 2024
Common Entrance Test, 2024
DOCTOR OF PHILOSOPHY IN ENTOMOLOGY

Full Marks: 150
Hours

Time: 3

Roll No.

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Day and Date of Examination: _____

Signature of Invigilator(s) _____

Signature of Candidate _____

General Instructions:

PLEASE READ ALL THE INSTRUCTIONS CAREFULLY BEFORE MAKING ANY ENTRY.

1. DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO.
2. Candidate must write his/her Roll Number on the space provided.
3. This Test Booklet contains 150 Multiple Choice Questions (MCQs) from the concerned subject. Each question carries 1 mark.
4. Please check the Test Booklet to verify that the total pages and total number of questions contained in the test booklet are the same as those printed on the top of the first page. Also check whether the questions are in sequential order or not.
5. Candidates are not permitted to enter into the examination hall after the commencement of the entrance test or leave the examination hall within two hour.
6. Making any identification mark in the OMR Answer Sheet or writing Roll Number anywhere other than the specified places will lead to disqualification of the candidate.
7. Candidates shall maintain silence inside and outside the examination hall. If candidates are found violating the instructions mentioned herein or announced in the examination hall, they will be summarily disqualified from the entrance test.
8. In case of any dispute, the decision of the Entrance Test Committee shall be final and binding.
9. The OMR Answer Sheet consists of two copies, the Original copy and the Student's copy.

1	The word 'Entomology' is derived from a Greek word which means:				Answer option (c)
	a) closure	b) smooth	c) notched	d) hollow	c) notched
2	Match the following:				Answer option (b)
	A. Earthworm		i. Fungiculture		
	B. Silkworm		ii. Vermiculture		
	C. Honey Bee		iii. Sericulture		
	D. Mushroom		iv. Apiculture		
	a) A-i, B-ii, C-iii, D-iv	b) A-ii, B-iii, C-iv, D-i	c) A-iii, B-iv, C-i, D-ii	d) A-iv, B-i, C-ii, D-iv	b) A-ii, B-iii, C-iv, D-i
3	Choose the correct statement/statements about Honeybees and select the correct option from below: A. Worker bees look for food and bring it to the bee hive. B. Only the queen bee lays the eggs C. The male bees have no special role as a worker D. Honeybees live in artifacts.				Answer option (c)
	a) only A is true	b) A and B are true	c) A, B and C are true	d) A, B, C and D are true	c) A, B and C are true
4	Read the Assertion and the Justification statements carefully and choose the following option: A: Assertion - The colony is composed of two or more co-relative individuals which remain in close association with one another. B: Justification - Some insects like bees, ants, wasps and termites, live together in groups called colonies. Hence, they are called colonial insects.				Answer option (b)
	a) Both Assertion and Justification are false	b) Both Assertion and Justification are true	c) Assertion is true but Justification is false	d) Assertion is false but Justification is true	b) Both Assertion and Justification are true
5	Choose the correct sentence:				Answer option (a)
	a) Earthworms soften the soil of the field in which they live by digging the soil underneath	b) Earthworms soften the soil of the field in which they live by sealing the soil underneath	c) Earthworms coagulate the soil of the field in which they live by digging the soil underneath	d) Earthworms stiffen the soil of the field in which they live by dissuading the soil underneath	a) Earthworms soften the soil of the field in which they live by digging the soil underneath
6	Who is the father of Entomology				Answer option (d)

	a) Auguste Comte	b) Geoffrey Chaucer	c) Isaac Newton	d) William Kirby	d) William Kirby
7	Match the following branches of Entomology with its major characteristic and choose the correct option from below:				Answer option (b)
	A. Acarology	i. the study of insects which are either beneficial or harmful to human beings			
	B. General Entomology	ii. the scientific study of mites and ticks			
	C. Applied Entomology	iii. studies insects that spend portions of their lives or their entire lives in aquatic habitats			
	D. Aquatic Entomology	iv. the study of insects and their relationship to humans, the environment, and other organisms			
	a) A-i, B-ii, C-iii, D-iv	b) A-ii, B-iv, C-i, D-iii	c) A-iii, B-i, C-iv, D-ii	d) A-iv, B-iii, C-ii, D-i	b) A-ii, B-iv, C-i, D-iii
8	Choose the correct option from below: The organization/s which have developed the web portal for interest subvention claims-				Answer option (b)
	A. Department of Agriculture and Farmer's Welfare B. NABARD C. Ministry of Finance D. Reserve Bank of India				
	a) only A is correct	b) A and B are correct	c) A, B and C are correct	d) All are correct	b) A and B are correct
9	Type Questions here for assertion and justification A: Assertion - Newly detected infections like Zika and others like scrub typhus are transmitted by the same species of mosquito as dengue B: Justification - India needs more public health entomologists to study, diagnose, detect and to develop control strategies				Answer option (c)
	a) Assertion is true but Justification is false	b) Assertion is false but Justification is true	c) Both Assertion and Justification are true	d) Both Assertion and Justification are false	c) Both Assertion and Justification are true
10	The name of the new species of ant which has been discovered from Siang Valley, Arunachal Pradesh by the researchers is:				Answer option (b)
	a) Parapatrechina Sakuya	b) Parapatrechina Neela	c) Parapatrechina Umbranatis	d) Parapatrechina Aseta	b) Parapatrechina Neela
11	An ant was traversing the ground when it encountered a swarm of ants approaching from the opposite direction. Upon closer inspection, the ant realized these were not members of its colony and swiftly returned to its				Answer option (a)

	burrow. How could the ant distinguish that the approaching ants were not from its own group?				
	a) Through the sense of smell	b) Through their voice	c) Through their walking pattern	d) By their appearance	a) Through the sense of smell
12	Type Questions here for matching pairs:				Answer option (d)
	A. Nematoda	i. a phylum of invertebrates that comprises the flatworms			
	B. Mollusca	ii. a large phylum of invertebrate animals that includes insects, spiders, crustaceans, and their relatives.			
	C. Arthropoda	iii. a large phylum of invertebrate animals that have soft unsegmented body lacking segmented appendages and commonly protected by a calcareous shell.			
	D. Platyhelminthes	iv. a large phylum of worms with slender, unsegmented, cylindrical bodies, including the roundworms, threadworms and eelworms.			
	a) A-i, B-ii, C-iii, D-iv	b) A-ii, B-iv, C-i, D-iii	c) A-iii, B-iv, C-i, D-ii	d) A-iv, B-iii, C-ii, D-i	d) A-iv, B-iii, C-ii, D-i
13	Select the correct statement/s about INSECTS and choose the correct option below:				Answer option (b)
	<p>A. Insects are divided in 64 orders, or groups</p> <p>B. Insects are small creatures with three pairs of legs, a body with three main parts and a tough shell</p> <p>C. Insects do not have a backbone</p> <p>D. Insects grow through the process of hemimetabolous</p>				
	a) A and B are true	b) B and C are true	c) C and D are true	d) All are true	b) B and C are true
14	Read the Assertion and Justification carefully and choose the correct option from the following:				Answer option (a)
	<p>A: Assertion- Some insects can see their prey from far away. Some can hear even the faintest sound and some insects can even find their friends by their smell.</p> <p>B: Justification- Insects have different senses. They can see, hear, taste, smell and feel.</p>				
	a) Both the Assertion and Justification are true.	b) Both the Assertion and Justification are false.	c) Assertion is true but Justification is false.	d) Assertion is false but Justification is false.	a) Both the Assertion and Justification are true.
15	Entomology is the science that studies:				Answer option (c)

	a) behaviour of ants	b) behaviour of human beings	c) insects	d) birds	c) insects
16	A book has 200 pages and each page has 20 lines of 8 words each. How many words are there in the book altogether?				Answer option (c)
	a) 30 000	b) 31 000	c) 32 000	d) 33 000	c) 32 000
17	Match the following insects with the number of legs they have:				Answer option (c)
	A. Spider		i. 30		
	B. Dragonfly		ii. 8		
	C. Centipede		iii. 14		
	D. Sowbug		iv. 6		
	a) A-i, B-iii, C-iv, D-ii	b) A-iv, B-i, C-ii, D-iii	c) A-ii, B-iv, C-i, D-iii	d) A-iii, B-iv, C-i, D-ii	c) A-ii, B-iv, C-i, D-iii
18	Arrange the following from first to the last step of life cycle of an Ant: A. Larva B. Pupa C. Egg D. Ant				Answer option (b) C-Egg A-Larva B-Egg D-Ant
	a) A-B-C-D	b) C-A-B-D	c) B-A-C-D	d) D-A-B-C	b) C-A-B-D
19	Read the Assertion and Justification carefully and choose the correct option: A: Assertion- Spiders do not sleep in the same way that humans do B: Justification- Spiders do not have eyelids and they can't close their eyes.				Answer option (c)
	a) Assertion is true but Justification is not true	b) Assertion is false but Justification is true	c) Both Assertion and Justification are true	d) Both Assertion and Justification are false	c) Both Assertion and Justification are true
20	The number of species of insects on earth is approximately:				Answer option (c)
	a) 0 to 2 million	b) 1 to 5 million	c) 5 to 10 million	d) 10 to 15 million	c) 5 to 10 million
21	Increasing the sample size has the following effect upon the sampling error?				
	a) It increases the sampling error	b) It reduces the sampling error	c) It has no effect on the sampling error	d) All of the above	b
22	Match List I with List II				
	List I		List II		
	A. Stratified sampling		i. The units/members are chosen to		

		represent various areas of characteristics so defined		
	B. Cluster sampling	.Every unit had an independent and equal chance of being picked up		
	C. Systematic sampling	.The units are groups and are chosen intact		
	D. Dimensional sampling	.The members are selected using the interval obtained by N/n where $N =$ Aggregate and $n =$ desired sub aggregate		
	Choose the correct answer from the options given below:			
	a) A-II, B-III, C-IV, D-I	b) A-IV, B-I, C-II, D-III	c) A-III, B-IV, C-I, D-II	d) A-I, B-III, C-II, D-IV
23	The difference between the expected value of a statistic and the value of the parameter being estimated is called a:			
	a) Standard error	b) Bias	c) Sampling error	d) Non-sampling error
24	Which of the following is a subset of population?			
	a) distribution	b) sample	c) data	d) set
25	Given below are two statements: Statement I: In a bar chart, the heights of the bars represent the frequencies in each class Statement II: In a bar chart, the x-axis is labeled with the values of a qualitative variable. In light of the above statements, choose the most appropriate answer from the options given below			
	a).Both Statement I and Statement II are correct	b).Both Statement I and Statement II are incorrect	c).Statement I is correct but Statement II is incorrect	d).Statement I is incorrect but Statement II is correct
26	Given below are two statements: Statement I: A population is a collection of all individuals, objects, or measurement of interest Statement II: A sample is a portion or part of the population interest. In light of the above statements, choose the most appropriate answer from the options given below			
	a).Both Statement I and Statement II are correct	b).Both Statement I and Statement II are incorrect	c).Statement I is correct but Statement II is incorrect	d).Statement I is incorrect but Statement II is correct
27	The sum of the frequencies of the frequency distribution of a statistic is equal to:			
	a) Sample size	b) Population size	c) Possible samples	d) Sum of X values
28	Assertion (A) - No technique of gathering primary data is free from the prejudiced perspective of the Investigators or the informants. Reason (R) - The investigator's lack of training can cause errors. Which of the following is correct.			
	a) Both A and R are true and R is the correct	b) Both A and R are true but R is NOT the	c) A is true but R is false.	d) A is false but R is true.

	explanation of A.	correct explanation of A.													
29	Match List I with List II														
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	Choose the correct answer from the options given below:														
	a) A-II, B-IV, C-III, D-I	b) A-IV, B-I, C-II, D-III	c) A-III, B-IV, C-I, D-II	d) A-I, B-III, C-II, D-IV	a										
30	Assertion (A)- If the median of the given data 26, 29, 42, 53, x, x + 2, 70, 75, 82, 93, is 65 then the value of x is 64. Reason (R)- When the number of observations(n) is odd the median is the value of the $(n+1/2)^{th}$ observation. Which of the following is correct.				b										
	a) Both A and R are true and R is the correct explanation of A.	b) Both A and R are true but R is NOT the correct explanation of A.	c) A is true but R is false.	d) A is false but R is true.											
31	Research that seeks to examine the findings of a study by using the same design but a different sample is which of the following?														
	a) An exploratory study	b) A replication study	c) An empirical study	d) Hypothesis testing	b										
32	Which research method is a bottom-up approach to research?														
	a) Deductive method	b) Explanatory method	c) Inductive method	d) Exploratory method	c										
33	A qualitative research problem statement:														
	a) Specifies the research methods to be utilized	b) Specifies a research hypothesis	c) Expresses a relationship between variables	d) Conveys a sense of emerging design	d										
34	Given below are two statements: Statement I: Every research institute has to enforce research ethics in order to ensure the credibility and meaningfulness of human inquiry Statement II: ICT and its use in research has obtained ethical lapses in the conduct of research wherever it has been put in place In light of the above statements, choose the most appropriate answer from the options given below														
	a).Both Statement I and Statement II are correct	b).Both Statement I and Statement II are incorrect	c).Statement I is correct but Statement II is incorrect	d).Statement I is incorrect but Statement II is correct	c										

35	Assertion (A): Including headings and subheadings in a research paper is crucial Reason (R): It facilitates the organization of content and enhances				a
	a) Both A and R are true and R is the correct explanation of A.	b) Both A and R are true but R is NOT the correct explanation of A.	c) A is true but R is false.	d) A is false but R is true.	
36	Assertion (A): Pressure cookers are fitted with ebonite handles Reason (R): Ebonite is strong.				
	a) Both A and R are true and R is the correct explanation of A.	b) Both A and R are true but R is NOT the correct explanation of A.	c) A is true but R is false.	d) A is false but R is true.	c
37	Adopting ethical principles in research means:				
	a) Avoiding harm to participants	b) The researcher is anonymous	c) Deception is only used when necessary	d) Selected informants give their consent	a
38	Copying the work of other authors in whole pieces is called as				
	a) Self-plagiarism	b) Indirect plagiarism	c) Direct plagiarism	d) Patch writing	d
39	APA Style, MLA Style, Chicago Manual, Blue Book, OSCOLA are famously known as				
	a) Citation Manuals	b) Directories	c) Abbreviation Manuals	d) Handbooks	a
40	The main purpose of finalization of research topics and sub-topics is				a
	a) Collection of Literature	b) Collection of Questions	c) Collection of Statistics	d) Collection of Responses	
41	Literature review is basically to bridge the gap between				d
	a) Newly established facts	b) Previously established facts	c) Facts established time to time	d) Previous to current established facts	
42	The research follows to study the impact of legal principle, rule or institution on society on the society is called as:				c
	a) Social Study	b) Evolutive Study	c) Impact Analysis	d) Experimental Study	
43	Match List I with List II				
	List I		List II		
	Research Institute		Location		
	A. Indian Institute of chemical technology		I. Haryana		
	B. National Dairy Research Institute		II. Hyderabad		
	C. Indian Institute of Horticultural Research		III. Telengana		
	D. National Institute of Animal Biotechnology		IV. Bangalore		

	Choose the correct answer from the options given below:													
	a) A-III, B-II, C-I, D-IV	b) A-IV, B-III, C-II, D-I	c) A-II, B-I, C-IV, D-III	d) A-III, B-II, C-IV, D-I	c									
44	Incomplete, mislead or inconsistent knowledge can be satisfied by-				d									
	a) Diagnostic research	b) Comparative research	c) Remedial research	d) Explanatory research										
45	<p>Given below are two statements:</p> <p>Statement I: Research ethics and its observance are necessary for the interest of credibility and quality of research</p> <p>Statement II: The policy-making bodies have to be accountable for pursuing research with an eye on promoting research</p> <p>In light of the above statements, choose the most appropriate answer from the options given below</p>				a									
	a).Both Statement I and Statement II are correct	b).Both Statement I and Statement II are incorrect	c).Statement I is correct but Statement II is incorrect	d).Statement I is incorrect but Statement II is correct										
46	Match List I with List II				b									
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47	What abbreviation is used to mention more than four authors of a research work to be cited?				c									
	a) at al.	b) et all.	c) et al.	d) ot all.										
48	<p>Given below are two statements:</p> <p>Statement I: The research articles published in peer-reviewed journals are taken more seriously by experts</p> <p>Statement II: Peer-reviewed journals do not subject the research papers to rigorous scrutiny because they have high impact factors</p> <p>In light of the above statements, choose the most appropriate answer from the options given below</p>													
	a).Both Statement I and Statement II are correct	b).Both Statement I and Statement II are incorrect	c).Statement I is correct but Statement II is incorrect	d).Statement I is incorrect but Statement II is correct	c									
49	<p>Assertion (A): Like social scientists, the natural scientists can also collect data by conducting experiments, interviewing/observing people and reviewing literature.</p> <p>Reason (R): Social scientists cannot be as objective as can be natural scientists.</p>				b									

	a) Both A and R are true and R is the correct explanation of A.	b) Both A and R are true but R is NOT the correct explanation of A.	c) A is true but R is false.	d) A is false but R is true.										
50	Assertion (A): Copyright Act safeguards the interest of the author. Reason (R): The Act is essential to maximise the circulation of documents				c									
	a) Both A and R are true and R is the correct explanation of A.	b) Both A and R are true but R is NOT the correct explanation of A.	c) A is true but R is false.	d) A is false but R is true.										
	Duplicate checked done													
51	Native place of Khapra beetle is													
	a) Europe	b) Africa	c) India	d) USA	c									
52	One aluminium phosphide tablet (3g) release gas (in gram)													
	a) 2	b) 1	c) 3	d) 4	b									
53	Scientific name of BPH													
	a) <i>Nilaparvata lugens</i>	b) <i>Sogotella furcifera</i>	c) <i>Nephotettix nigripictus</i>	d) <i>Heirogyphus baniyan</i>	a									
54	Monophagous pest of mango is													
	a) Nut Weevil	b) Thrips	c) Scale	d) Bark eating caterpillar	a									
55	Source that supplies both nectar and pollen													
	a) hollyhock	b) sorghum	c) maize	d) Potato	a									
56	Wheat streak mosaic virus is transmitted by													
	a) Mites	b) Aphids	c) cutworms	d) Termites	a									
57	Match List I with List II				a									
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	Choose the correct answer from the options given below:													
	a). A 4- , B 3- , C -2 ,D -1,	b). A 3- , B 4- , C -2 ,D -1,	c). A 4- , B 3- , C -1 ,D -2,	d). A 1- , B 3- , C -2 ,D -4,										
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	Choose the correct answer from the options given below:													
	a). 3 - , B -1 , C -2 ,D -4,	b). 4 - , B -2 , C -1 ,D -3,	c). 3 - , B -2 , C -1 ,D -4,	d). 2 - , B -3 , C -1 ,D -4,										
59	National Bureau of Agricultural Insect Resources													
	a) Mumbai	b) Bengaluru	c) New Delhi	d) Nagpur	b									
60	Token stimuli theory was given by													

	a) Fraenkel	b) Brues	c) Jermy	d) Kogan	a										
61	DIMBOA confers resistance against														
	a) First generation <i>Acyrtosiphum</i>	b) Second generation <i>Ostrinia</i>	c) First generation <i>Ostrinia</i>	d) First second <i>Acyrtosiphum</i>	c										
62	<i>Campoletis chloridae</i> attacks														
	a) Larvae of <i>Helicoverpa</i>	b) Adult of <i>Helicoverpa</i>	c) Larvae of <i>Trichoplusia ni</i>	d) Adult of <i>Trichoplusia ni</i>	a										
63	Matinal insects are active during														
	a) Dusk	b) Day	c) Dawn	d) Night	c										
64	Match List I with List II				c										
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66	Concept of Life table was first formulated by														
	a) Raymond	b) Morris	c) Miller	d) Joseph	a										
67	Foregut of an insect is														
	a) Mesozoic in origin	b) Endodermal in origin	c) Mesodermal in origin	d) Ectodermal in origin	d										
68	Functional spiracles present in Holopneustic (Pairs) respiratory system is														
	a) 10	b) 08	c) 03	d) 01	a										
69	The Insects: Function and Structure authored by														
	a) BV David	b) Snodgrass	c) RF Chapman	d) AS Perry	c										
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	Choose the correct answer from the options given below:														
	a) A -1 , B -4 , C 3- ,D -2,	b) A -4 , B -1 , C 3- ,D -2,	c) A -1 , B -4 , C 2- ,D -3,	d) A -2 , B -4 , C 3- ,D -1,											
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	A.Stomach poison	I.Inert dusts		
	B.Physical poison	II.Aluminium phosphide		
	C.Respiratory poison	III.Chloropyriphs		
	D.Nerve poison	IV. <i>Bacillus thrungirnsis</i>		
	Choose the correct answer from the options given below:			
	a) A -4 , B -1 , C -2 ,D -3,	b) A -1 , B -4 , C -2 ,D -3,	c) A -2 , B -1 , C -4 ,D -3,	d) A -4 , B -1 , C -3 ,D -2,
72	Diapause stage of silk worm is			
	a) Adult	b) pupa	c) Larvae	d) Egg
73	A species characterised by high reproductive rate and low survival rate is			
	a) K Strategies	b) R Strategies	c) M Strategies	d) N Strategies
74	The Journal Annals of Plant Protection Sciences is published by			
	a) Society of plant protection sciences	b) Entomological society of India	c) Pathological society of India	d) Society for biocontrol
75	Entomological Review is published from			
	a) India	b) USA	c) Russia	d) China
76	Given below are two statements: Statement I: Rust Red Floor beetle is internal feeder Statement II: It belongs to family Bruchidae In light of the above statements, choose the most <i>appropriate</i> answer from the options given below:			
	a) Both Statement I and Statement II are correct	b) Both Statement I and Statement II are incorrect	c) Statement I is correct but Statement II is incorrect	d) Statement I is incorrect but Statement II is correct
77	Given below are two statements: Statement I: <i>Bacillus thuringensis</i> is Crystalliferous Statement II: <i>Bacillus cereus</i> is non Crystalliferous In light of the above statements, choose the most <i>appropriate</i> answer from the options given below:			
	a) Both Statement I and Statement II are correct	b) Both Statement I and Statement II are incorrect	c) Statement I is correct but Statement II is incorrect	d) Statement I is incorrect but Statement II is correct
78	Rice stem borer is a			
	a) Regular pest	b) Occasional pest	c) Persistent pest	d) Sporadic pest
79	Egg laying ceases when temperature ($^{\circ}$ C) inside the lac cell falls below			
	a) 35	b) 30	c) 25	d) 17
80	Molemma contains			
	a) 70 % shellac	b) 40 % shellac	c) 50 % shellac	d) 30 % shellac
81	Scientific name of Som a host for Muga silk is			
	a) <i>Litsea polyantha</i>	b) <i>Machilus bombycina</i>	c) <i>A.penyi</i>	d) <i>A.yamamai</i>
82	Given below are two statements: Statement I: Formula used for dose calculation is $N_1V_1: N_2V_2$ for EC formulations Statement II: Formula used for dose calculation is $N_1V_1: 100RA$ for granule formulations			
	a			

	In light of the above statements, choose the most <i>appropriate</i> answer from the options given below:				
	a) Both Statement I and Statement II are correct	b) Both Statement I and Statement II are incorrect	c) Statement I is correct but Statement II is incorrect	d) Statement I is incorrect but Statement II is correct	
83	<p>Given below are two statements: Statement I: Triterpenoid is feeding deterrent Statement II: It acts against Chinch beetle In light of the above statements, choose the most <i>appropriate</i> answer from the options given below:</p>				
	a) Both Statement I and Statement II are correct	b) Both Statement I and Statement II are incorrect	c) Statement I is correct but Statement II is incorrect	d) Statement I is incorrect but Statement II is correct	c
84	<p>Given below are two statements: Statement I: Manipulation of temperature is also called cultural method Statement II: Deep ploughing is a cultural method In light of the above statements, choose the most <i>appropriate</i> answer from the options given below:</p>				
	a) Both Statement I and Statement II are correct	b) Both Statement I and Statement II are incorrect	c) Statement I is correct but Statement II is incorrect	d) Statement I is incorrect but Statement II is correct	d
85	<p>Given below are two statements: Statement I: Methyl Eugenol is attractant Statement II: Citronella is Repellent In light of the above statements, choose the most <i>appropriate</i> answer from the options given below:</p>				a
	a) Both Statement I and Statement II are correct	b) Both Statement I and Statement II are incorrect	c) Statement I is correct but Statement II is incorrect	d) Statement I is incorrect but Statement II is correct	
86	<p>Given below are two statements: Statement I: Cattle screw worm was found on Hawaii island Statement II: Mediterreanean fruitfly was found on Island of Tinian In light of the above statements, choose the most <i>appropriate</i> answer from the options given below:</p>				b
	a) Both Statement I and Statement II are correct	b) Both Statement I and Statement II are incorrect	c) Statement I is correct but Statement II is incorrect	d) Statement I is incorrect but Statement II is correct	
87	<p>Given below are two statements: Statement I: Boverin is bacterial insecticide Statement II: Mycar is <i>Hirsutella thompsoni</i> In light of the above statements, choose the most <i>appropriate</i> answer from the options given below:</p>				d
	a) Both Statement I and Statement II are correct	b) Both Statement I and Statement II are incorrect	c) Statement I is correct but Statement II is incorrect	d) Statement I is incorrect but Statement II is correct	
88	Given below are two statements:				

	Statement I: Pink bollworm is <i>Pectinophora gossypiella</i> Statement II: American bollworm is <i>Helicoverpa armigera</i> In light of the above statements, choose the most <i>appropriate</i> answer from the options given below:				
	a) Both Statement I and Statement II are correct	b) Both Statement I and Statement II are incorrect	c) Statement I is correct but Statement II is incorrect	d) Statement I is incorrect but Statement II is correct	a
89	Potato tuber moth belongs to family				
	a) Hemiptera	b) Lycanidae	c) Noctuidae	d) Gelechidae	d
90	Sister species of <i>Apis florea</i>				
	a) <i>Apis andreniformis</i>	b) <i>Apis laboriosa</i>	c) <i>Apis mellifera</i>	d) <i>Apis dorsata</i>	a
91	Example of honey bee species which form multiple comb				
	a) <i>Apis andreniformis</i>	b) <i>Apis dorsata</i>	c) <i>Apis nukuensis</i>	d) <i>Apis florea</i>	c
92	Given below are two statements: Statement I: The natural sex pheromone of pink bollworm is gossyplure Statement II: The para-pheromone of pink bollworm is Hexalure In light of the above statements, choose the most <i>appropriate</i> answer from the options given below:				a
	a) Both Statement I and Statement II are correct	b) Both Statement I and Statement II are incorrect	c) Statement I is correct but Statement II is incorrect	d) Statement I is incorrect but Statement II is correct	
93	Given below are two statements: Statement I: Tolfenpyrad belongs to Pyrazoles Statement II: Flonicamid is Pymetrozine In light of the above statements, choose the most <i>appropriate</i> answer from the options given below:				
	a) Both Statement I and Statement II are correct	b) Both Statement I and Statement II are incorrect	c) Statement I is correct but Statement II is incorrect	d) Statement I is incorrect but Statement II is correct	c
94	Approximate weight of single cocoon is (in grams)				
	a) 1.67	b) 2.67	c) 3.67	d) 4.67	a
95	Larvae starts producing silk during				
	a) Late 1 st instar	b) Late 2 nd instar	c) Late 3 rd instar	d) Late 5 th instar	d
96	Vector of little leaf brinjal				
	a) Plant hopper	b) Leaf hopper	c) Mealy bugs	d) White fly	b
97	Yellow Vein Mosaic virus disease in Okara is transmitted by				
	a) Beetle	b) Butterfly	c) Aphid	d) White fly	d
98	Losses caused by storage pests (as per FAO) is (%)				
	a) 10	b) 40	c) 50	d) 60	a
99	Highly toxic insecticides have label				
	a) Red	b) Yellow	c) Blue	d) Green	b
100	One bale of cotton is (in Kg)				
	a) 170	b) 190	c) 120	d) 150	a
101	The representative of chelicerata is -				

	a) Millipede	b) Mite	c) Centipede	d) Lobster	b										
10 2	The suture separating the episternum and epimeron is -														
	a) Coronal suture	b) Pleural suture	c) Frontal suture	d) Occipital suture	b										
10 3	In which type of head, the mouthparts are in continuous series with the legs?				a										
	a) Hypognathous	b) Agnathous	c) Prognathous	d) Opisthognathous											
10 4	The insect diet with all known constituents by quantity is known as -				d										
	a) Oligidic diet	b) Polygidic diet	c) Meridic diet	d) Holidic diet											
10 5	Which of the following is used in nutritional studies?				c										
	a) Ants	b) Blow flies	c) Cockroaches	d) Dragon flies											
10 6	Match List I with List II				b										
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	Choose the correct answer from the options given below:				
	a) A -1 , B -2 , C -4 ,D -3,	b) A -1 , B -2 , C -3 ,D -4,	c) A -1 , B -4 , C -3 ,D -2,	d) A -4 , B -2 , C -3 ,D -1,	b
110	The flies associated in corpse, useful in criminal investigation are -				
	a) Hover flies	b) Fruit flies	c) Robber flies	d) Blow flies	d
111	In slippery surfaces which of the following body part present in the legs helps walking				
	a) Arolium	b) pulvilli	c) empodiu m	d) halter	b
112	The hind wings of the insects belonging order diptera are modified into knobbed thread like structures known as				
	a) hamuli	b) Pollen comb	c) scopa	d) halters	d
113	The chitin molecules in insect cuticle are linked with the protein molecules through out the cuticle by covalent bond to form				
	a) N-acetylglucosamine	b) C-acetylglucosamine	c) M-acetylglucosamine	d) glycoprotein	d
114	The tentorium is formed by ingrowths of the exoskeleton, is called				
	a) Planta	b) Claw	c) apophyses	d) Crochets	c
115	Given below are two statements: Statement I: <i>Aphelinus mali</i> was introduced from Sri Lanka Statement II: It control apple wooly aphid In light of the above statements, choose the most <i>appropriate</i> answer from the options given below:				
	a) Both Statement I and Statement II are correct	b) Both Statement I and Statement II are incorrect	c) Statement I is correct but Statement II is incorrect	d) Statement I is incorrect but Statement II is correct	d
116	Given below are two statements: Statement I: Khapra beetle is native of America Statement II: It is not a storage pest In light of the above statements, choose the most <i>appropriate</i> answer from the options given below:				
	a) Both Statement I and Statement II are correct	b) Both Statement I and Statement II are incorrect	c) Statement I is correct but Statement II is incorrect	d) Statement I is incorrect but Statement II is correct	b
117	Given below are two statements: Statement I: Yellow Stem Borer is monophagous pest of Paddy Statement II: Scientific name of Yellow Stem Borer is <i>Scirpophaga incertulus</i> In light of the above statements, choose the most <i>appropriate</i> answer from the options given below:				
	a) Both Statement I and Statement II are correct	b) Both Statement I and Statement II are incorrect	c) Statement I is correct but Statement II is incorrect	d) Statement I is incorrect but Statement II is correct	a

11 8	Given below are two statements: Statement I: <i>Canapholoris medinalis</i> is a defoliator Statement II: Pest of Pulse In light of the above statements, choose the most <i>appropriate</i> answer from the options given below:				c
	a) Both Statement I and Statement II are correct	b) Both Statement I and Statement II are incorrect	c) Statement I is correct but Statement II is incorrect	d) Statement I is incorrect but Statement II is correct	
11 9	The scientific name of castor is -				
	a) <i>Morus alba</i>	b) <i>Carica papaya</i>	c) <i>Samia ricini</i>	d) <i>Ricinus communis</i>	d
12 0	Powdery mildew in mulberry is caused by -				
	a) <i>Phyllactina corylea</i>	b) <i>Meloidogynae incognita</i>	c) <i>Acidium mori</i>	d) <i>Cercospora moricola</i>	a
12 1	Ecology as the study of the structure and function of nature is defined by				
	a) Haeckel	b) Elton	c) Odum	d) Shelford	c
12 2	Concept of biotic potential was given by				
	a) Simon J Yu.(1930)	b) Chapman (1918)	c) Simon J Yu.(1920)	d) Chapman (1928)	d
12 3	The pH of haemolymph is				
	a) 4-5	b) 6-7	c) 8-9	d) 3-4	b
12 4	<i>Scutellonema bradys</i> is a pest of -				
	a) Potato	b) Yam	c) Cowpea	d) Grapevine	b
12 5	The silkworm respire through -				
	a) Gills	b) Air sacs	c) Book lungs	d) Tracheae	d
12 6	Which vitamins are essential to insects?				
	a) Vitamin A & E	b) Vitamin B & D	c) Vitamin A & C	d) Vitamin C & D	a
12 7	Assertion (A)- The amino acid-bound tRNA enters the aminoacyl tRNA binding site. Reason (R)- It transfers the amino acid at the peptidyl tRNA site. Which of the following is correct.				
	a) Both A and R are true and R is the correct explanation of A.	b) Both A and R are true but R is NOT the correct explanation of A.	c) A is true but R is false.	d) A is false but R is true.	b
12 8	Match List I with List II				
	List I	List II			

	A. Tabtoxin	I. <i>Alternaria alternata</i>		
	B. Tentoxin	II. <i>Cochliobolus carbonum</i>		
	C. H C - Toxin	III. <i>Pseudomonas syringae</i>		
	D. P C - Toxin	IV. <i>Periconia circinta</i>		
	Choose the correct answer from the options given below:			
	a) A - II, B - III, C - IV, D - I	b) A - I, B - II, C - IV, D - III	c) A - II, B - IV, C - I, D - I	d) A - III, B - I, C - II, D - IV
12 9	Given below are two statements: Statement I: The interval between the moulting is known as instar. Statement II: The skins casted by the insect are known as exuviae. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below:			
	a) Both Statement I and Statement II are correct	b) Both Statement I and Statement II are incorrect	c) Statement I is correct but Statement II is incorrect	d) Statement I is incorrect but Statement II is correct
13 0	Which of the following is endodermal in origin?			
	a) Fat body	b) Gonads	c) Midgut	d) Hemocytes
13 1	Incurviid moth pollinate -			
	a) Jack fruit	b) Ficus	c) Yucca	d) Fig
13 2	Pallium is structure connected with -			
	a) Male genitalia of grasshopper	b) Female genitalia of cockroach	c) Dorsal genital aspect of moths	d) Ventral genital aspects of beetles
13 3	Given below are two statements: Statement I: <i>Laccifer lacca</i> sucks the phloem sap from succulent twigs. Statement II: <i>Cajanus cajan</i> is another host of <i>Laccifer lacca</i> . In light of the above statements, choose the <i>most appropriate</i> answer from the options given below:			
	a) Both Statement I and Statement II are correct	b) Both Statement I and Statement II are incorrect	c) Statement I is correct but Statement II is incorrect	d) Statement I is incorrect but Statement II is correct
13 4	Wing is nourished by blood circulating through			
	a) Brain	b) Abdomen	c) Thorax	d) Veins
13 5	Who is present Plant Protection Adviser to the government of India?			
	a) S N Shushil	b) J P Singh	c) P S Singh	d) K Raghumoorthi
13 6	Assertion (A)- Pesticides must be used in more quantity on crops. Reason (R)- Pesticides helps to protect the crops from insects and crop diseases. Which of the following is correct.			

	a) Both A and R are true and R is the correct explanation of A.	b) Both A and R are true but R is NOT the correct explanation of A.	c) A is true but R is false.	d) A is false but R is true.	d
137	What is the major reaction involved in Phase II metabolism of insecticides?				
	a) Oxidation	b) Reduction	c) Hydrolysis	d) Conjugation	d
138	Choose the correct statement(s) from the following: Gills are not found in hemimetabolan insects Hypermetamorphosis is found in lepidopterans Simple metamorphosis is known as paurometabola Polyembryonic development is also called polymetabola Choose the <i>correct</i> answer from the options given below:				d
	a) A only	b) B only	c) A and B only	d) C and D only	
139	Johnston's organ is present in which of the antennal segment of housefly?				
	a) Scape	b) Pedicel	c) Flagellum	d) Flagellomere	b
140	Which of the following is eaten by certain people?				a
	a) Silk worm	b) Blister beetle	c) Silver fish	d) Cicada	
141	Which of the following is the breeding host for fruit sucking moth <i>Eudocima</i> spp?				
	a) <i>Tinospora cardifolia</i>	b) <i>Gynandropsis pentaphylla</i>	c) <i>Ipomea cairica</i>	d) <i>Triumfetta rhomboidei</i>	a
142	Given below are two statements: Statement I: Methyl bromide is known to deplete ozone layer. Statement II: Aluminium phosphide does not deplete ozone layer. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below:				
	a) Both Statement I and Statement II are correct	b) Both Statement I and Statement II are incorrect	c) Statement I is correct but Statement II is incorrect	d) Statement I is incorrect but Statement II is correct	a
143	The basement membrane of insect integument is about..... micron thick.				
	a) 0.05	b) 0.5	c) 0.01	d) 0.01	b
144	The cement layer is secreted by the dermal glands or so called..... gland in lepidoptera				
	a) Scopa	b) versor's gland	c) ecdysial gland	d) Salivary gland	b

14 5	Match List I with List II				c
	List I	List II			
	A. Pectinate	I. Whorls of hairs			
	B. Genuiculate	II. Elbow shaped			
	C. Capitata	III. Comb like			
	D. Plumose	IV. Terminal segment suddenly enlarged			
	Choose the correct answer from the options given below:				
	a) A -1 , B -2 , C -4,D -3,	b) A -4 , B -2 , C -3,D -1,	c) A -3 , B -2 , C -4,D -1,	d) A -1 , B -2 , C -4,D -3,	
14 6	Triethanolamine formalin (TAF) is used as fixative to fix -				
	a) Nematodes	b) Immature insects	c) Mites	d) Fish embryo	a
14 7	The hibernating eggs are preserved in -				
	a) Cold storage	b) Oven	c) Incubator	d) Refrigerator	a
14 8	A population reaching a maximum equilibrium level is called as -				b
	a) Lag phase	b) Asymptote	c) Logarithmic phase	d) Positive acceleration phase	
14 9	Uzi fly belongs to the family -				
	a) Meloidae	b) Tachinidae	c) Saturniidae	d) Pyralidae	b
15 0	The enzyme involved in melanogenesis is -				
	a) Tyrosinase	b) Proteinase	c) Lipase	d) Cellulase	a