

## 135 PU Ph.D Medical Entomology

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174 PU\_2016\_135\_E

What is the common name applied to mosquito larvae?

- Worm
- Wigglers
- Maggot
- Caterpillar

### 2 of 100

155 PU\_2016\_135\_E

Which amongst the following abbreviations stands for organization related to health research?

- DRDE
- DOD
- DRDO
- ICMR

### 3 of 100

133 PU\_2016\_135\_E

The objective of larval collection:-

- Mapping breeding sites & seasonal variations
- Measuring density
- Impact of control measures
- Measuring density, mapping breeding sites & seasonal variations and impact of control measures

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186 PU\_2016\_135\_E

Data to be collected in a filariasis survey:-

- Filarial disease rate
- Mf prevalence and Mf load in the community
- Filarial endemicity rate
- Mf prevalence, Mf load, filarial disease rate and Filarial endemicity rate

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127 PU\_2016\_135\_E

What is the name given to chemicals used to kill fleas?

- Adulticides
- Larvicides
- Pulicides

- Holocides

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143 PU\_2016\_135\_E

What would be the best definition for Medical Entomology?

- The study of economic losses of commercially important animals and plants due to insect predation
- Branch of science that deals with insects that cause disease or that serve as vectors of organisms that cause disease in humans
- Application of insect evidence to criminal investigations and civil cases
- The scientific study of insects

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136 PU\_2016\_135\_E

In Onchocerciasis, damage to human eyes results from host responses to:-

- L<sub>4</sub> larvae and adults
- L<sub>2</sub> larvae
- L<sub>1</sub> larvae
- L<sub>3</sub> larvae

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How is the double - pored tapeworm (*Dipylidium caninum*) typically transmitted to dogs and (sometimes) people?

- By being bitten by a cat or dog flea
- By consuming uncooked meat
- By ingestion of adult fleas containing cysticercoids
- By being bitten by a human flea

### 9 of 100

108 PU\_2016\_135\_E

Which Indian doctor discovered a cure for Kala-Azar?

- Dr Homi Bhaba
- Dr C P Thakur
- Dr U M Brahmachari
- Dr Vikram Sarabhai

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The intermediate host of *Dracunculus medinensis*:-

- A black fly
- A crustacean
- A rotifer
- A mosquito

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184 PU\_2016\_135\_E

Which group of insects has simple metamorphosis?

- Beetles
- Flies
- Fleas
- Bugs

**12 of 100**

179 PU\_2016\_135\_E

The sterile-male technique would probably NOT work well for an insect pest whose:-

- Population is extremely abundant
- Females mate only once in their lifetime
- Males are very strong fliers
- Individuals are easily mass reared

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Which communication signal has low information content, but can be long-lasting in the environment?

- Wing color patterns
- Stridulation
- Light flashes
- Marking pheromones

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137 PU\_2016\_135\_E

Where do female body lice deposit their eggs?

- On the head
- In the pubic region
- On clothing
- On the abdomen

**15 of 100**

109 PU\_2016\_135\_E

The stage of *Wuchereria bancrofti* that is ingested by the mosquito:-

- L<sub>1</sub>
- L<sub>2</sub>
- L<sub>3</sub>
- Mf

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Soft tick transmits:-

- Tick typhus
- Tularemia
- Kyasanur Forest Disease
- Relapsing fever

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163 PU\_2016\_135\_E

In insect development, the germ band:-

- Gives rise to the cleavage and activation centers
- Differentiates into four germ layers
- Differentiates into three germ layers
- Forms the amnionic membrane

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*Trypanosoma brucei* is transmitted by:-

- Mosquitoes
- Sand Fly
- Bed Bug
- Tsetse Fly

**19 of 100**

141 PU\_2016\_135\_E

An insect that has evolved to resemble a plant twig will probably be able to avoid:-

- Commensalism
- Parasitism
- Competition
- Predation

**20 of 100**

166 PU\_2016\_135\_E

Which arthropods have chelicerae?

- Mosquitoes
- Spiders
- Millipedes
- Shrimp

**21 of 100**

168 PU\_2016\_135\_E

Which amongst the following abbreviations stands for organization related to vector control programme?

- IVRI
- ICAR
- NVBDCP
- NARI

**22 of 100**

103 PU\_2016\_135\_E

Who invented the first man-made insecticide, D.D.T.?

- David Peakall
- Paul Muller
- Othmar Zeidler
- Rachel Carson

**23 of 100**

135 PU\_2016\_135\_E

Which order is exclusively haematophagous (blood feeders)?

- Hymenoptera
- Thysanoptera
- Phasmida
- Siphonoptera

**24 of 100**

101 PU\_2016\_135\_E

Malaria results from a mosquito injecting the \_\_\_\_\_ of Plasmodium into the human blood.

- Sporocyst
- Gametocytes
- Sporozoites
- Merozoites

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Which of the following levels of organization is arranged in the correct sequence from most to least inclusive?

- individual, community, population, ecosystem
- ecosystem, community, population, individual
- population, ecosystem, individual, community
- community, ecosystem, individual, population

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Suppose you find an interesting arthropod living on the bottom of a fresh water pond. It has eyes, antennae, mandibles, and 10 pairs of legs. You conclude that this organism belongs in the class:-

- Crustacea
- Insecta
- Diplopoda
- Arachnida

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145 PU\_2016\_135\_E

Insect blood does not:-

- Transport hormones
- Flow through the wings
- Contain antibodies
- Clot

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169 PU\_2016\_135\_E

Which of the following disease is not spread by houseflies?

- Conjunctivitis
- Malaria
- Amoebiasis
- Typhoid

**29 of 100**

171 PU\_2016\_135\_E

Why leaf-cutting ants do take leaves to their colony?

- To disguise the colony from raiding anteaters
- To line the nest where the queen produces eggs
- To repair colony walls after damage
- To make mulch to grow the fungus that they eat

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132 PU\_2016\_135\_E

Reduvid bugs are also known as \_\_\_\_\_.

- Tickling Bugs
- Hissing Bugs
- Kissing Bugs
- Laughing bugs

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Drug of choice for the control of filariasis:-

- Diethylcarbamazine citrate
- Chloramphenicol
- Brufen
- Nifedepine

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187 PU\_2016\_135\_E

Housefly breeding is an index of:-

- Standard of low socio-economy
- Standard of Personal Hygiene
- Standard of Public Hygiene
- Standard of Living

**33 of 100**

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Any chemical used to repel predators would always be classified as:-

- Pheromone
- Hormone
- Kairomone
- Allomone

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Like several of the other fields that are categorized within \_\_\_\_\_, entomology is a taxon-based category; any form of scientific study in which there is a focus on insect related inquiries is, by definition, entomology.

- Zoology
- Ecology
- Botany

- Biology

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125 PU\_2016\_135\_E

Choose the odd one?

- Chromosomal translocations
- Cytoplasmic incompatibility
- Induced sterility
- DDT residual spray

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124 PU\_2016\_135\_E

Glossina morsitans transmits:-

- Onchocerca volvulus*
- Trypanosoma brucei gambiense*
- Trypanosoma brucei rhodesiense*
- Hymenolepis diminuta*

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117 PU\_2016\_135\_E

After the tick attaches to humans:-

- Only female ones can pass on the disease
- Blood meal is essential for passing on viral/bacterial infections
- 12 hrs may pass before the tick starts to feed
- The tick has maximum feeding period of 1 minute

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208 PU\_2016\_135\_E

The fever associated with visceral leishmaniasis may resemble that of:-

- Oriental sore
- Malaria
- Cutaneous leishmaniasis
- Drug sensitivity

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Where does the name Hemiptera come from?

- hemicellulose
- hemimetabolous
- hemelytron



- hemocoel

**40 of 100**

110 PU\_2016\_135\_E

Who demonstrated the transmission of the filarial nematodes by mosquitoes in 1877?

- Patrick Manson
- Carlos Finlay
- Sir Ronald Ross
- Josiah Nott

**41 of 100**

126 PU\_2016\_135\_E

To develop optimally Simulium (Black Flies) larvae require:-

- Stagnant water
- Well oxygenated running water
- Cool sandy soil
- An intermediate host

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147 PU\_2016\_135\_E

Which sampling strategy is best suited for insects that live in the soil?

- Light trap
- Sex pheromone trap
- Berlese funnel
- Sweeping

**43 of 100**

100 PU\_2016\_135\_E

Discarded tyres, artificial containers, pots, discarded containers are associated with?

- Anopheles stephensi*
- Culex vishnui*
- Aedes aegypti*
- Culex quinquefasciatus*

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Which among the following is not a larvivorous fish?

- Tilapia
- Pearl spot
- Guppy

- Panchax

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140 PU\_2016\_135\_E

Which of these organisms causes Trench Fever including Urban Trench Fever?

- Bartonella quintana*
- Staphylococcus aureus*
- Rickettsia prowazeki*
- Borrelia recurrentis*

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195 PU\_2016\_135\_E

Which of the following does not apply to dengue fever?

- Principal vector is *Anopheles culicifacies*
- Principal vector is *Aedes aegypti*
- Reservoir of infection is humans
- It is viral disease

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217 PU\_2016\_135\_E

\_\_\_\_\_ is an epitome of order Mallophaga.

- Ptanga succincta*
- Blatta orientails*
- Grylotalpa Africana*
- Menopon pallidium*

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Vaccination in malaria has not been successful because?

- Plasmodium does not produce antibodies and antitoxins
- Plasmodium produces antitoxins
- Plasmodium produces minute bodies
- Plasmodium produces antibodies

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180 PU\_2016\_135\_E

To which of these groups do insect pathogens belong?

- Viruses, bacteria, protozoa and fungi
- Protozoa and fungi
- Viruses and bacteria

- Bacteria and protozoa

**50 of 100**

200 PU\_2016\_135\_E

Acarology addresses the study of which of these organisms?

- Insects
- All invertebrates
- Mites
- All arthropods

**51 of 100**

157 PU\_2016\_135\_E

Fleas:-

- Can bite at all stages of development after hatching from eggs
- Are more a cause of irritation than actual disease
- Can fly short distances
- Commonly spread typhus

**52 of 100**

202 PU\_2016\_135\_E

How many stages of immune responses are recognized in humans and animals repeatedly exposed to bites or stings of the same or antigenically related arthropods?

- 5
- 6
- 12
- 3

**53 of 100**

144 PU\_2016\_135\_E

Who first demonstrated the transmission of the causative agent of Rocky Mountain spotted fever by ticks in 1906?

- Hayward Taylor Ricketts
- Theobald Smith and F.L.Kilbourne
- Carlos Finlay
- P.Mackie

**54 of 100**

139 PU\_2016\_135\_E

Sucking mouth parts are not found in:-

- Lice
- Flies

- Ants
- Fleas

**55 of 100**

146 PU\_2016\_135\_E

The process autogenous development in mosquito is?

- Development of egg
- Hatching of egg
- Development of egg without blood meal
- Development of egg with blood meal

**56 of 100**

121 PU\_2016\_135\_E

Trypanosomiasis, or "sleeping sickness" is caused by a member of the:-

- Zoomastigotes
- Dinoflagellates
- Radiolarians
- Sporozoans

**57 of 100**

203 PU\_2016\_135\_E

Effective malarial control intervention include all the following except?

- Use of pyrethroid impregnated mosquitoes net
- Larviciding
- Artemisinin Combination Therapy
- Vaccination with SPF 66

**58 of 100**

105 PU\_2016\_135\_E

Which of the following is a long term complication in Filariasis?

- Diabetes
- High blood pressure
- Lymphoedema
- Lymphangitis

**59 of 100**

114 PU\_2016\_135\_E

Larvae on aquatic plants in Asia:-

- Anophelines*
- Culicines*

- Mansonoides*
- Aedines*

**60 of 100**

176 PU\_2016\_135\_E

Which class of chemical insecticides is characterized by a relatively high degree of environmental persistence?

- Carbamates
- Synthetic pyrethroids
- Organophosphates
- Chlorinated hydrocarbons

**61 of 100**

226 PU\_2016\_135\_M

The process by which egg developed without fertilization is called:-

- autogenesis
- autogenous developement
- parthenogenesis
- viviparity

**62 of 100**

259 PU\_2016\_135\_M

Example for a stercorarian transmission is:-

- Malaria
- Tick typhus
- Kala azar
- Chagas disease

**63 of 100**

231 PU\_2016\_135\_M

The development of mosquito egg with blood meal is known as:-

- gonotrophic development
- autogenous development
- parthenogenesis
- anautogenous development

**64 of 100**

239 PU\_2016\_135\_M

Breathing trumpets of \_\_\_\_\_ pupae are short and broad apically.

- Anopheline*

- water beetle*
- Toxorhynchites*
- Culicine*

**65 of 100**

223 PU\_2016\_135\_M

*Brugian filariasis* is restricted to:-

- Asia
- Pacific islands
- Africa
- Latin America

**66 of 100**

221 PU\_2016\_135\_M

Termites are examples of:-

- Ametamorphosis
- Hemimetamorphosis
- Holometamorphosis
- Paurometamorphosis

**67 of 100**

232 PU\_2016\_135\_M

Mosquitoes belonging to genera *Aedes* deposit eggs:-

- directly on water surface
- just above water surface
- outside water
- bottom of the water

**68 of 100**

229 PU\_2016\_135\_M

Chagas disease is caused by:-

- Trypanosoma*
- Theileria*
- Falciparum*
- Cyanobacteria*

**69 of 100**

252 PU\_2016\_135\_M

Acaricide are chemicals that kills:-

- mosquitoes and flies

- arthropods and arachnids
- mites and ticks
- arachnids and fleas

**70 of 100**

225 PU\_2016\_135\_M

In insects, the number of generations per year is called:-

- frequency
- longevity
- viviparity
- voltinism

**71 of 100**

251 PU\_2016\_135\_M

African *trypanosomiasis* is vectored by:-

- house flies
- tsetse flies
- black flies
- sand flies

**72 of 100**

234 PU\_2016\_135\_M

Most Anopheles have \_\_\_\_\_ wings.

- black wings
- yellow wings
- spotted wings
- serrate wings

**73 of 100**

245 PU\_2016\_135\_M

The vector of river blindness is:-

- house flies
- sand flies
- horse flies
- Black flies

**74 of 100**

228 PU\_2016\_135\_M

The fifth serotype of dengue virus was reported from:-

- China

- Singapore
- Malaysia
- Indonesia

**75 of 100**

257 PU\_2016\_135\_M

The number of potentially infective bites per unit of time is:-

- Entomological inoculation rate
- Vectorial capacity
- Infectivity rate
- Infection rate

**76 of 100**

237 PU\_2016\_135\_M

\_\_\_\_\_ is an important vector of bancroftian filariasis in India.

- Culex quinquefasciatus*
- Aedes aegypti*
- Armigeres subalbatus*
- Anopheles punctualatus*

**77 of 100**

222 PU\_2016\_135\_M

Scabies is caused by:-

- Hard ticks
- Itch mites
- Soft ticks
- Mosquitoes

**78 of 100**

247 PU\_2016\_135\_M

The parasite responsible for river blindness is:-

- Wuchereria bancrofti*
- Onchocerca volvulus*
- Mansonella ozzardi*
- Brugia malayi*

**79 of 100**

255 PU\_2016\_135\_M

Chemical that has little or no toxicity but, when combined with some insecticides, enhances their activity and thus reduces dosage rates:-



- synergist
- organochlorides
- enzymes
- organophosphates

**80 of 100**

253 PU\_2016\_135\_M

A host in which parasite does not reach sexual maturity:-

- definitive host
- secondary host
- intermediate host
- primary host

**81 of 100**

286 PU\_2016\_135\_D

'Malabar legs' in Kerala was caused by:-

- Mansonella ozzardi*
- Brugia malayi*
- Brugia timori*
- Wuchereria bancrofti*

**82 of 100**

270 PU\_2016\_135\_D

Which of the following insecticide is not an organophosphate compound?

- Dichlorvos
- Fenitrothion
- Propoxur
- Propetamphos

**83 of 100**

287 PU\_2016\_135\_D

In 1955, heavy mortality in monkeys lead to the discovery of Kyasanur Forest Disease (KFD) in Shimoga district of Karnataka state. Which of the following is the causative organism of KFD?

- Virus
- Protozoa
- Bacteria
- Nematode

**84 of 100**

291 PU\_2016\_135\_D

Which of the following is not soil transmitted?

- Ascaris lumbricoides*
- Ancylostoma duodenale*
- Strongyloides stercoralis*
- Trichinella spiralis*

**85 of 100**

271 PU\_2016\_135\_D

Johnston's organ is a specialized organ found in the mosquitoes functions as:-

- Sensory organ
- Visual organ
- Respiratory organ
- Salivary gland

**86 of 100**

283 PU\_2016\_135\_D

Which of the following is the major malaria vector in African region?

- Anopheles culicifacies*
- Anopheles annularis*
- Anopheles gambiae*
- Anopheles sudaicus*

**87 of 100**

260 PU\_2016\_135\_D

Multiple gonotrophic cycle is a characteristic feature of:-

- Tsetse Fly
- Triatomine bug
- Ixodid tick
- Argasid tick

**88 of 100**

276 PU\_2016\_135\_D

Which of the following insect order is not a holometabola?

- Diptera
- Siphonoptera
- Hemiptera
- Neuroptera

**89 of 100**

293 PU\_2016\_135\_D

Which class of insecticide is commonly used for mosquito repellents?

- Organochlorines
- Carbamates
- Pyrethroids
- Organophosphates

**90 of 100**

279 PU\_2016\_135\_D

Which of the following is an example for ovo-viviparous insect vector?

- Tsetse fly
- House fly
- Sand fly
- Blow fly

**91 of 100**

278 PU\_2016\_135\_D

Taxonomical hierarchy of Linnean classification systematically divides either plant or animal life into:-

- Kingdom-Phylum-Order-Class-Family-Genus Species
- Kingdom-Phylum-Family-Order-Class-Genus-Species
- Kingdom-Phylum-Class-Order-Family-Genus-Species
- Kingdom-Phylum-Class-Family-Order-Genus-Species

**92 of 100**

290 PU\_2016\_135\_D

Successful transmission of a disease by an insect vector is not depend on:-

- Reproductive capacity
- Vector longevity
- Flight range
- Intrinsic incubation period

**93 of 100**

296 PU\_2016\_135\_D

Morphologically similar and reproductively isolated organism is known as:-

- Sibling species
- Plasmid
- Cryptic species
- Isolated species

**94 of 100**

267 PU\_2016\_135\_D

Which of the following mosquito species is not a species complex?

- Anopheles sundaicus*
- Anopheles stephensi*
- Anopheles fluviatilis*
- Anopheles minimus*

**95 of 100**

265 PU\_2016\_135\_D

"Milky urine" is a kind of symptom in which of the following diseases?

- Dengue
- Filariasis
- West Nile fever
- Kala azar

**96 of 100**

274 PU\_2016\_135\_D

Which mosquito species is used as the first prototype for genetic analysis?

- Aedes aegypti*
- Aedes albopictus*
- Anopheles stephensi*
- Chagasiabathana*

**97 of 100**

272 PU\_2016\_135\_D

The vertebrate reservoir in the transmission cycle of Chikungunya is:-

- Human
- Birds
- Rodents
- Pig

**98 of 100**

264 PU\_2016\_135\_D

Which of the following countries reported zero indigenous cases of Malaria in 2013?

- Sri Lanka & Azerbaijan
- Costa Rica & Argentina
- Pakistan & Sudan
- Bhutan & Malaysia

**99 of 100**

298 PU\_2016\_135\_D

Which of the following parasitic disease has been eradicated from India?

- Malaria
- Filariasis
- Giardiasis
- Dracunculiasis

**100 of 100**

262 PU\_2016\_135\_D

In India, DDT resistance was first detected in:-

- Mosquito
- Cockroach
- Flea
- Housefly