

Sr No.	PhD Medical Entomology
1	Which fraction comes next in the sequence
	$\frac{1}{2}, \frac{3}{4}, \frac{5}{8}, \frac{7}{16}, ?$
Alt1	9/32
Alt2	10/17
Alt3	11/34
Alt4	12/35

2	Choose the missing term out of the given options: Ac _ cab _ baca _ aba _ acac
Alt1	aacb
Alt2	acbc
Alt3	babb
Alt4	bcbb

3	Leaf is related to Sap in the same way as Bone is related.....?.....
Alt1	Fluid
Alt2	Blood
Alt3	Marrow
Alt4	Calcium

4	Select the lettered pair that has the same relationship as the original pair of words: Rotate: Gyrate
Alt1	Putrefy: Reject
Alt2	Anachronism: Cubism
Alt3	Accolade: Criticism
Alt4	Absolve: Exonerate

5	Choose the alternative, which is similar to the given words: Liver : Heart : Kidney
Alt1	Blood
Alt2	Nose
Alt3	Lung
Alt4	Urine

6	Spot the defective segment from the following:
Alt1	The more you read
Alt2	the more will you
Alt3	get to know
Alt4	about more things

7	Choose the meaning of the idiom/phrase from among the options given: A rainy day
Alt1	a holiday
Alt2	a difficult time
Alt3	a fine day
Alt4	a wet day

8	The villagers plan to ----- the elections in protest.
Alt1	avoid
Alt2	ignore
Alt3	neglect
Alt4	boycott

9	Choose the option closest in meaning to the given word: PUERILE
Alt1	vulgar
Alt2	perverse
Alt3	childish
Alt4	young

10	Choose the antonymous option you consider the best: OBTUSE
Alt1	fast
Alt2	sharp
Alt3	reliable
Alt4	lucid

11	In a Cricket tournament, each of the six teams will play every other team exactly once during the league phase. How many matches will be played during the league phase in total ?
Alt1	12
Alt2	36
Alt3	15
Alt4	24

12	A walks 10 metres in front and 10 metres to the right. The every time turning to his left, he waks 5, 15 and 15 metres respectively. How far is he now from the starting point ?
Alt1	15 metres
Alt2	5 metres
Alt3	10 metres
Alt4	30 metres

13	The sum of the income of A and B is more than that of C and D taken together. The sum of the income of A and C is the same as that of b and D taken together. Moreover, A earns half as much as the sum of the income of b and D. Whose income is he highest ?
Alt1	A
Alt2	B

Alt3	C
Alt4	D

14	Five boys A, B, C, D and E are seated on a bench. A is to the left of C. b is to the immediate right of D and there are two people between C and D. E is to the extreme right of the row. Who is exactly at the middle of this group ?
Alt1	A
Alt2	B
Alt3	C
Alt4	E

15	A man is facing south. He turns 1350 in the anticlockwise direction and then 1800 in the clockwise direction. Which direction is he facing now?
Alt1	North East
Alt2	North West
Alt3	South East
Alt4	South West

16	Find the number which when added to itself 17 times becomes 126.
Alt1	13
Alt2	7
Alt3	9
Alt4	18

17	Ravi is exactly 9999 days old today. How old is he?
Alt1	27
Alt2	28
Alt3	26
Alt4	29

18	A Maths teacher usually has 21 students in his class. A,B & C are asleep. D&E are in the bathroom and the teacher has sent F&G to the principal's office. How many students are left in the classroom?
Alt1	18
Alt2	19
Alt3	15
Alt4	17

19	JIPMER is coded as 589142; AIPMT is coded as 78910; Then JEE is coded as
Alt1	910
Alt2	544
Alt3	789
Alt4	914

20	Mr. Arvind drove 90 km at 30 kmph and then an additional 90 km at 45 kmph. What is his average speed over his 180 km ?
Alt1	37.5 kmph
Alt2	35 kmph
Alt3	36 kmph
Alt4	38 kmph

21	Anaphylactic shock is best described as an extreme type of:-
Alt1	Envenomization
Alt2	Allergic reaction
Alt3	Parasitosis
Alt4	Entomophobia

22	Mayflies laying eggs on roads instead of in water involves which of the following?
Alt1	A defective behavioral gene
Alt2	Trial-and-error learning
Alt3	Insecticide poisoning
Alt4	Misdirected response to a sign stimulus

23	Acarology - a branch of science dealing with which of these organisms?
Alt1	All invertebrates
Alt2	Insects
Alt3	All arthropods
Alt4	Mites

24	Biological control is likely to be most effective when the predator or parasite has a:-
Alt1	Short life cycle
Alt2	High reproductive rate
Alt3	Long life cycle
Alt4	Wide range of preferred hosts

25	What is meant by myiasis?
Alt1	Invasion of host tissues by fly larvae
Alt2	Parasitism by lice
Alt3	Parasitism by fleas
Alt4	Extreme hypersensitivity to arthropods bites or stings

26	Pedicel is the name for the?
Alt1	2nd leg segment
Alt2	2nd antennal segment
Alt3	1st leg segment
Alt4	1st antennal segment

27	Which control strategy is likely to have the greatest impact on non-target organisms?
Alt1	Physical/mechanical control
Alt2	Biological control
Alt3	Cultural control

Alt4	Chemical control
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28	The Roll back malaria (RBM) partnership was launched in the year:-
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Alt1	1998
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Alt2	2000
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Alt3	1997
------	------

Alt4	1999
------	------

29	Microfilaria can be detected in the peripheral blood in the following disease except?
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Alt1	Onchocerca volvulus
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Alt2	Bancroftian filariasis
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Alt3	Calabar swelling
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Alt4	Malayan filariasis
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30	Which insects do not damage horticultural crops (as immatures)?
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Alt1	Butterflies
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Alt2	Caddis flies
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Alt3	Whiteflies
------	------------

Alt4	Sawflies
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31	In larval insects, which hormone inhibits the development of imaginal discs?
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Alt1	Ecdysteroids
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Alt2	Eclosion hormone
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Alt3	Brain Hormone
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Alt4	Juvenile hormone
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32	The sexual cycle of Plasmodium is completed in:-
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Alt1	RBC
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Alt2	Salivary gland of the mosquito
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Alt3	Liver Tissue
------	--------------

Alt4	Gut of the mosquito
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33	What does the word Diptera mean?
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Alt1	Predatory
------	-----------

Alt2	Segmented
------	-----------

Alt3	Vector
------	--------

Alt4	Two-wing
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34	Filariasis is caused by?
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Alt1	Culex
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Alt2	Schistosoma
------	-------------

Alt3	Wuchereria
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Alt4	Trichinella
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35	Compared to first generation pesticides, the newer second and third generation compounds are:-
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Alt1	More toxic and less selective
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Alt2	More selective and less persistent
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Alt3	More persistent and less selective
Alt4	Less selective and highly persistent

36	Malaria is a disease which affects the:-
Alt1	Spleen
Alt2	Heart
Alt3	Lungs
Alt4	Kidney

37	All insects must communicate in order to:-
Alt1	Find a mate
Alt2	Survive the winter
Alt3	Avoid predation
Alt4	Locate food

38	Which of the following diseases is transmitted to human through the tsetse fly?
Alt1	Lymphatic filariasis
Alt2	Sleeping sickness
Alt3	Microcephaly
Alt4	Onchocerciasis

39	The germ Plasmodium was discovered by?
Alt1	Golgi
Alt2	Patrick Manson
Alt3	Charles Lavern
Alt4	Sir Ronald Ross

40	A spider spins the web by means of a secretion of:-
Alt1	Salivary glands
Alt2	Thoracic glands
Alt3	Abdominal glands
Alt4	Mouth

41	Blood colour of arthropoda is:-
Alt1	Blue
Alt2	Yellow
Alt3	Red
Alt4	Colourless

42	Which of these is not considered an insect growth regulator?
Alt1	Synthetic pyrethroid
Alt2	Ecdysteroid
Alt3	Juvenile hormone analogue
Alt4	Chitin inhibitor

43	What are the developmental (Life cycle) stages of all fleas?
Alt1	Egg, nymph, pupa, adult

Alt2	Egg, Larva, pupa, adult
Alt3	Egg, larva, adult
Alt4	Egg, nymph, adult

44	Introduced species:-
Alt1	May become common enough to become pests
Alt2	Often fail to colonize the new area
Alt3	Can disrupt the balance of the natural species with which they become associated
Alt4	Can effect a combination of the above

45	Organophosphate and carbamate insecticides work by disrupting an insect's:-
Alt1	Respiratory system
Alt2	Nervous system
Alt3	Digestive system
Alt4	Endocrine system

46	Which of the following terms includes all of the others?
Alt1	Biodiversity
Alt2	Ecosystem diversity
Alt3	Species diversity
Alt4	Genetic diversity

47	Which order is exclusively herbivorous?
Alt1	Phasmida
Alt2	Odonata
Alt3	Thysanoptera
Alt4	Hemiptera

48	Which structure is ALWAYS associated with the Hymenoptera?
Alt1	Collophore
Alt2	Furcula
Alt3	Elytra
Alt4	Hamuli

49	Opisthognathous position of mouth parts are present in:-
Alt1	bugs
Alt2	cockroaches
Alt3	termites
Alt4	grasshoppers

50	Which of the following parasites does not cause lymphatic filariasis in human?
Alt1	Brugia pahangi
Alt2	Brugia malayi
Alt3	Wuchereria bancrofti
Alt4	Brugia timori

51	The pathological changes in Schistosomiasis are caused mainly by:-
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Alt1	Adult worm
Alt2	Immature eggs
Alt3	Mature eggs
Alt4	Cercariae

52	Which sclerite lies below the epistomal suture?
Alt1	Gena
Alt2	Labrum
Alt3	Clypeus
Alt4	Frons

53	Culex is the genus under the order:-
Alt1	Diptera
Alt2	Siphonoptera
Alt3	Anoplura
Alt4	Hemiptera

54	How does Classic Epidemic typhus differ from other forms of typhus?
Alt1	The agents can be transmitted by lice or fleas
Alt2	The agent is always transmitted by human body lice
Alt3	Lice are never involved in transmission
Alt4	The agent can be transmitted by lice or ticks

55	Which order is exclusively parasitic?
Alt1	Phthiraptera
Alt2	Diptera
Alt3	Diplura
Alt4	Zoraptera

56	Argasid ticks are:-
Alt1	Soft ticks
Alt2	Ixodid ticks
Alt3	small ticks
Alt4	Hard ticks

57	In a normally developing insect, a high titer of juvenile hormone should not be found:-
Alt1	In an adult male
Alt2	When it is a sexually mature adult
Alt3	Before it becomes a pupa
Alt4	While it is molting from first to second instar

58	Clinical characteristic of Dengue Fever:-
Alt1	Rash
Alt2	Hypertension
Alt3	Hypothermia
Alt4	Hypotension

59	What insect transmits heartworms to dogs?
Alt1	Mosquitoes
Alt2	Ticks
Alt3	Lice
Alt4	Mites

60	Which of these mammals are the main reservoirs of Urban Plague?
Alt1	Peri-domestic rats
Alt2	Dogs
Alt3	Prairie dogs
Alt4	Rock squirrels

61	Which insects would be classified as decomposers?
Alt1	Crickets
Alt2	Thrips
Alt3	Termites
Alt4	Stoneflies

62	Malarial parasite is best detected in a patient?
Alt1	After temperature becomes normal
Alt2	After 24 hours when temperature becomes normal
Alt3	While temperature is rising sharply
Alt4	An hour after rise in temperature

63	Chikungunya virus was first isolated from:-
Alt1	North America
Alt2	East Africa
Alt3	South Africa
Alt4	South America

64	Transport of organism from one place to another by means of attachment to another animal:-
Alt1	accidental distribution
Alt2	bio distribution
Alt3	phoresy
Alt4	parasitism

65	The group of stemmata on each side of the _____ is called ocularium.
Alt1	head
Alt2	abdomen
Alt3	thorax
Alt4	wings

66	A host that although infected with an arbovirus, or other pathogen, and may be severely affected has a viraemia too low in titre to infect blood feeding arthropods:-
Alt1	secondary host
Alt2	definitive host
Alt3	dead end host

Alt4	primary host
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67	BG sentinel traps are primarily designed to collect:-
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Alt1	Anopheles stephensi
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Alt2	Anopheles minimus
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Alt3	Aedes aegypti
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Alt4	Aedes albopictus
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68	The term arbovirus derived from:-
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Alt1	arthropod borne virus
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Alt2	arthropods virus
------	------------------

Alt3	Anopheles borne virus
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Alt4	Aedes borne virus
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69	Main vector of Leishmaniasis are:-
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Alt1	tsetse flies
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Alt2	black flies
------	-------------

Alt3	house flies
------	-------------

Alt4	sand flies
------	------------

70	A condition of head in adult diptera in which the eyes are widely separated from each other:-
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Alt1	monoptic
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Alt2	Holoptic
------	----------

Alt3	dichoptic
------	-----------

Alt4	compound eyes
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71	Kala azar is caused by:-
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Alt1	Leishmania major
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Alt2	Leishmania donovani
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Alt3	Leishmania amazonensis
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Alt4	Leishmania braziliensis
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72	Mosquitoes which frequently enter house to feed are said to be:-
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Alt1	Exophagic
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Alt2	exophilic
------	-----------

Alt3	endophilic
------	------------

Alt4	endophagic
------	------------

73	A distinctive mosaic pattern is present on _____ eggs.
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Alt1	Haemagogus
------	------------

Alt2	Mansonia
------	----------

Alt3	Culex
------	-------

Alt4	Aedes
------	-------

74	Eggs of Aedes is always laid:-
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Alt1	singly
------	--------

Alt2	groups
------	--------

Alt3	on water surface
Alt4	Raft

75	Diel periodicity is the periodicity that occur about every _____ hours.
Alt1	12 hours
Alt2	6 hours
Alt3	48 hours
Alt4	24 hours

76	A protein which helps in the flight mechanism of flying insects is:-
Alt1	Arthropodin
Alt2	Sclerotin
Alt3	Vitellogenin
Alt4	Resilin

77	The phylloxerans are, closely related to:-
Alt1	Teemites
Alt2	cockroaches
Alt3	aphids
Alt4	Ants

78	The wing coupling mechanism present in Lepidoptera is:-
Alt1	jugate
Alt2	frenate
Alt3	retinaculum
Alt4	jugofrenate

79	The type of Leishmaniasis which is prominent in India:-
Alt1	visceral
Alt2	Diffuse cutaneous
Alt3	Mucocutaneous
Alt4	Cutaneous

80	Most important vector of Japanese encephalitis is:-
Alt1	Culex tritaeniorhynchus
Alt2	Culex quinquefasciatus
Alt3	Armigeres subalbatus
Alt4	Culex pipiens

81	Definitive host in filarial life cycle is:-
Alt1	Cattle
Alt2	Human
Alt3	Dog
Alt4	Mosquito

82	The target site for binding the pyrethroid compounds in insects is:-
Alt1	Chloride channel

Alt2	Dorsal aorta
Alt3	Carboxy acetyl esterase
Alt4	Sodium channel

83	Which is the gold standard method of diagnosis for malaria infection?
Alt1	ELISA test
Alt2	Polymerised chain reaction
Alt3	Haemagglutination test
Alt4	Microscopy

84	Which one of the vector borne disease was used as bioweapon by Mongolian soldiers in Crimean city of Caffa in 1346?
Alt1	Plague
Alt2	KFD
Alt3	Scrub typhus
Alt4	Murine typhus

85	Mutation which does not express phenotypically are:-
Alt1	Nonsense mutation
Alt2	Point mutation
Alt3	Frame-shift mutation
Alt4	Silent mutation

86	The discovery of microfilaria in peripheral blood was made first by:-
Alt1	Ronald Ross
Alt2	Patrick Manson
Alt3	Lewis
Alt4	Romanowsky

87	The largest component of mosquito mouth part is:-
Alt1	Maxillae
Alt2	Labium
Alt3	Labrum
Alt4	Hypopharynx

88	Physiological age of female mosquitoes can be determined by:-
Alt1	distended abdomen
Alt2	oviduct dilatation
Alt3	size of eggs
Alt4	size of wings

89	Insect midgut is the major site of absorption in which glucose is converted into trehalose immediately after absorption. Trehalose is a:-
Alt1	Oligosaccharide
Alt2	Monosaccharide
Alt3	Polysaccharide
Alt4	Disaccharide

90	All mosquito species possess three pairs of chromosomes except:-
Alt1	Armigeres subalbatus
Alt2	Chagasia bathana
Alt3	Culex pipiens
Alt4	Aedes aegypti

91	Which of one the following causes 'malignant malaria' in humans?
Alt1	Plasmodium malariae
Alt2	Plasmodium ovale
Alt3	Plasmodium falciparum
Alt4	Plasmodium vivax

92	Which of the following virus is an antigenic subtype of chickungunya virus was isolated first from human?
Alt1	Orthobunyavirus
Alt2	O'nyong-nyong virus
Alt3	Flavivirus
Alt4	Phlebovirus

93	Dumdum fever is the another name of:-
Alt1	Schistosomiasis
Alt2	Visceral leishmaniasis
Alt3	Onchocerciasis
Alt4	Cutaneous leishmaniasis

94	In Dracunculiasis, Cyclops is the intermediate host belongs to the class:-
Alt1	Insecta
Alt2	Crustacea
Alt3	Arachnida
Alt4	Diplopoda

95	The agent Rickettsia within the vector lice undergoes the followings:-
Alt1	Binary Fission
Alt2	Cyclo-developmental
Alt3	Cyclo-propagative
Alt4	Propagative

96	Insects and their arthropod relatives are found in every environment inhabited by humans; this feature of the insects lead to use them in the forensic studies. Which insect order is of forensic importance?
Alt1	Heteroptera
Alt2	Diptera
Alt3	Siphonoptera
Alt4	Orthoptera

97	Saltatorial type of legs are usually found in:-
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Alt1	Grass hopper
Alt2	Cockroach
Alt3	Giant water bug
Alt4	Beetle

98	Romana's sign is a condition of periorbital edema is the symptom of:-
Alt1	Schistosomiasis
Alt2	Leishmaniasis
Alt3	American trypanosomiasis
Alt4	African trypanosomiasis

99	Which is the largest phylum in the Kingdom Animalia?
Alt1	Annelida
Alt2	Arthropoda
Alt3	Mollusca
Alt4	Reptelia

100	Honey bee has _____ type of mouth part.
Alt1	piercing and chewing
Alt2	Lapping
Alt3	siphoning
Alt4	sponging