CTION 1 - SECTION 1	
Question No.1	
The bonds involved in antigen-antibody interactions are ○ Weak Hydrogen bonds and Vanderwall forces	
 Strong di-sulphide bonds 	
 Weak covalent bonds 	
 Strong covalent bonds 	
Question No.2	
First recombinant antigen vaccine approved for human use is DPT vaccine	
○ Hib vaccine	
○ Var vaccine	
Hepatitis B vaccine	
Question No.3	
Which of the following is not a part of disease surveillance ontrol and evaluation	
 data collection and analysis 	
 planning and monitoring 	
 diagnosis and treatment 	
Question No.4	
Cytoadherence is a character exhibited by Plasmodium falciparumc	
malariae	
○ vivax	
○ ovale	

A living microbe with reduced virulence that is used for vaccination is considered:

Virulent

A toxoid

 Attenuated 	
Dormant	
Question No.6	
Which of the following is a permanent mounting media for study of Hoyer's media	insects?
Ether	
 Canada balsam 	
 Ethyl alcohol 	
Question No.7	
The SOS repair mechanism is activated by	
2-aminopurine	
 Hydroxylamine 	
Thymine dimers	
Question No.8	
In malaria control , API refers to annual parasite incidence	
 annual plasmodium index 	
 annual parasite index 	
annual plasmodium incidence	
Question No.9	
Peroxisome, mitochondria and chloroplasts have the following com Membrane-enclosed organelle with its own genome	mon feature:
 They are surrounded by single membrane 	
 They import protein from cytosol 	
○ They contain DNA	
Question No.10	
Sensitivity and specificity of a test indicate	
false positives and false negatives	
 false positives and true negatives 	

true positives and true negatives	
Question No.11	
'Trans-stadial transmission' is found in	
○ KFD	
 Scrub typhus 	
 Trench fever 	
○ Plague	
Question No.12	
Oroya fever is transmitted by	
o mosquitoe	
sand flyc	
○ bedbug	
housefly	
Question No.13	
'Cyclodevelopmental' type of transmission is seen in Filariasis	
○ Malaria	
○ Plague	
Dengue	
Question No.14	
Yellow fever not reported in India because vectors not present	
 ethological agent not found 	
 vaccine available 	
 reservoir hosts not available 	
Question No.15	
In a survey conducted among school children,49 were positive fo 100. The malaria situation is best described as holoendemic	r malaria out of
hyperendemic	
hypoendemic	
mesoendemic	

Question No.16	
Elimination of malaria means	
ono imported case	
 no indigenous case for three years 	
○ no cases of malaria	
ono indigenous case	
Question No.17	
Double-chained DNA strand is made radioactive in both its chain to replicate twice in non-radioactive medium. The result would be Radioactivity is absent in all strands	
 Half the chains have radioactivity 	
 All strands have radioactivity 	
Three strands have radioactivity	
Question No.18	
'Indoor residual spray' isused against mosquitoes which are exophagic	
exophilic	
endophilic	
endophagicd	
endopriagicu	
Question No.19	
Pistia plant is associated with	
○ Culex	
 Anopheles 	
○ Mansonia	
○ Aedes	
Question No.20	
Actinomycin D is a commonly used inhibitor of both DNA and RI What is its mechanism of action?	NA synthesis.
 It binds to histone proteins 	
 It binds to polymerase 	
It intercalates between the duplex DNA	

Question No.21 Man is a dead end host in Plague Dengue JE Yellow fever Question No.22 Pyrethrum oil' is an extract of Artemesia Neem Chrysanthemum Cinchona Question No.23 Knock-down effect is achieved by using malathionc BHC permethrin paris green Question No.24 Which of the following statements about insects is false? Insects have both dorsal and ventral blood vessels Insects have spiracles, openings that allow air to enter. The trachea is part of the digestive system Insects have a developed digestive system with a mouth, crop and intestine Question No.25 A manarrived in India two months back from Saudi Arabia reported with Malaria about one month back, is considered as a case of foreign origin	It binds covalently to DNA
Plague Dengue JE Yellow fever Question No.22 'Pyrethrum oil' is an extract of Artemesia Neem Chrysanthemum Cinchona Question No.23 Knock-down effect is achieved by using malathionc BHC permethrin paris green Question No.24 Which of the following statements about insects is false? Insects have both dorsal and ventral blood vessels Insects have spiracles, openings that allow air to enter. The trachea is part of the digestive system Insects have a developed digestive system with a mouth, crop and intestine Question No.25 A manarrived in India two months back from Saudi Arabia reported with Malaria about one month back, is considered as	Question No.21
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Knock-down effect is achieved by using	○ Cinchona
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Question No.25 A manarrived in India two months back from Saudi Arabia reported with Malaria about one month back,is considered as	 The trachea is part of the digestive system
A manarrived in India two months back from Saudi Arabia reported with Malaria about one month back,is considered as	
about one month back,is considered as	Question No.25
	about one month back,is considered as
case of unknown origind	
an indigenous case	-

 ○ an imported case 	
Question No.26	
'Rat fall' is an indicator of	
Typhus	
Leptospirosisb	
○ Plague	
Relapsing fever	
Question No.27	
The drug which acts on development of gametocytesin mosquitoes is amodiaquine	
o proguanil	
chloroquine	
pyrimethamine	
Question No.28	
Urban Malaria vector in India is	
 Anopheles stephensi 	
 Aedes aegypti 	
 Anopheles culicifacies 	
 Culex fatigans 	
Question No.29	
'Sub-periodic' filariasis occurs in	
Orissa	
 Andamans 	
Laccadivesc	
○ Kerala	
Question No.30	
Which group does NOT have antennae? Myriapoda	
Crustacea	
Arachnida	
Onychophora	

Question No.31	
Which of the following statements not true regarding insecticide resistant physiological change	ce
 genetic change 	
 behavioural change 	
biochemical change	
Question No.32	
The vector for chickungunya virus is: Culex tarsalis	
Aedes Aegypti	
Anopheles stephensi	
Any mosquito	
Question No.33	
Which is not an element of health risk assessment? Hazard analysis	
 Systematic analysis 	
Capacity analysis	
 Vulnerability analysis 	
Question No.34	
Which of the following is an effective biological control of mosquitoes? — Gambusia dominicensis Regan	
○ Gambusia affinis	
○ Gambusia alvarezi	
○ Gambusia aurata	
Question No.35	
Which orders are NOT closely related phylogenetically? Odonata and Ephemeroptera	
Thysanura and Thysanoptera	
Diptera and Siphonaptera	
Thysanoptera and Hemiptera	

Question No.36	
'Bird fall' is anindicator of presence of	
○ JE	
○ West Nile	
Yellow fever	
Nipah	
Question No.37	
Modified Plan of Operation(MPO) was launched in the year 1997	
<u> </u>	
<u> </u>	
○ 1977	
Question No 29	
Question No.38	
After its second molt an insect is a instar.	
○ Third	
First	
○ Final	
Second	
Question No.39	
Insecticide resistance developed against DDT is	
odominant	
intermediate	
o recessive	
polygenic	
Question No.40	
Basic reproduction rate is number of secondary cases reported	
o primary cases reported	
o primary and secondary cases	
 cases originating from a primary case 	

Question No.41

Primary lesion in American Trypanosomiasis is	
chagoma	
granuloma	
chancre	
escriai	
Question No.42	
In which arthropod sub-phylum do insects fall into? Chelicerata	
─ Myriapoda	
○ Crustacea	
○ Hexapoda	
Question No.43	
'Hydrocoele' is common in case of	
○ Kala azar	
Malayan filariasis	
Bancroftian filariasis	
Schistosomiasis	
Question No.44	
Dengue virus genome is a-	
○ +dsRNA	
○ -ssDNA	
- +dsDNA	
○ +ssRNA	
Question No.45	
In a survey for Aedes, out of 100 houses, 120 positive breeding cites were recorded. the Breteau index for the area is	
>50 <100	
>200	
>100	
7 100	

Question No.46

The term 'pre-munition' related to immunity against
Filariasis
○ Dengue
│ Malaria
⊝ Zika
Question No.47
What is the chemical makeup of the insect's egg shell? Polysaccharide
○ Calcium
│
○ Protein
Question No.48
A case of Dengue reported at a hospital, which of the following is not true Patient should be advised on aedes control
Patient should be monitored for blood loss
Patient should be kept under a mosquito net
Patient should be isolated
Question No.49
Mass Drug Administration is a method used for the elimination of JE
○ Dengue
○ Filariasis
○ Malaria
Question No.50
As per the current strategy 'Malaria elimination' in Indiais to be achieved by 2030
○ 2020
<u>2025</u>
○ 2035
Question No.51

○ JE	
Leptospirosis	
 Yellow fever 	
○ Dengue	
Question No.52	
Which of the following is not transmitted by <i>Aedes</i> mosquitoes? Chikungunya	
Dengue	
 Japanese encephalitis 	
○ Zika	
Question No.53	
'Palmate hairs' is a feature of	
Mansonia	
 Anopheles 	
○ Culex	
 Aedes 	
Question No.54	
Thermal fogging is used in the following conditions except high wind speed	
urban areas	
 dawn and dusk 	
epidemics	
Question No.55	
Which is a biological hazard to public health? Radiological agents	
 Infestation of pests 	
 Landslides 	
conflict	
Overtion No. 50	
Question No.56	

○ Dermaptera	
○ Coleoptera	
○ Hemiptera	
○ Diptera	
Question No.57	
Which of the following is not a genetic marker for identification of insects: Mitochondrial DNA	
○ Plasmid DNA	
○ Ribosomal DNA	
Question No.58	
In 'Malaria control', triple –insecticide resistance indicate resitance to Malathion, Fenthion, Abate	
○ BHC, Malathion, Fenthion	
◯ DDT, BHC, Malathion	
○ DDT, BHC, Fenthion	
Question No.59	
Which of the following flies is found in cracks and crevices of walls during	
Which of the following flies is found in cracks and crevices of walls during daytime	
Which of the following flies is found in cracks and crevices of walls during daytime Sand fly	
Which of the following flies is found in cracks and crevices of walls during daytime Sand fly Tsetse fly	
Which of the following flies is found in cracks and crevices of walls during daytime Sand fly Tsetse fly Black fly	
Which of the following flies is found in cracks and crevices of walls during daytime Sand fly Tsetse fly Black fly House fly	ues
Which of the following flies is found in cracks and crevices of walls during daytime Sand fly Tsetse fly Black fly House fly Question No.60 Protein binding regions of DNA are identified by one of the following technique	ues
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Cattles

Humans	
Cats	
Oppos	
Question No.62	
The drug chloramphenicol blocks	
Polypeptide chain elongation	
 Polypeptide chain initiation 	
 Cell wall synthesis 	
 Translation termination release factors 	
Question No.63	
In a 'descriptive study'	
study proceeds from cause to effect	
involves cross sectional / longitudinalstudy	
 study proceeds from effect to cause 	
 case and control groups present 	
Question No.64	
Which protein shows the co-operativity when bound to ssDNA	
Helix destabilizing protein	
 Helicase 	
Primase	
Question No.65	
Mineral oils are used in mosquito control measure as a: Larvicide	
LarvicideAdulticide	
Larvicide	
LarvicideAdulticidePersonnel protection measures	
 Larvicide Adulticide Personnel protection measures Space spray Question No.66	
LarvicideAdulticidePersonnel protection measuresSpace spray	

○ bacteria	
drug	
insecticide	
Question No.67	
'Duffy –ve' trait protects against Plasmodium	
malariae	
ovale	
○ vivax	
∫ falciparum	
Question No.68	
Humans are amplifier host in	
○ Plagued	
Dengue	
○ JE	
○ KFD	
Question No.69	
Following statements are true about Dengue except	
 cross-reaction among serotypes 	
 occur in epidemic cycles 	
 four serotypes occur in India 	
 monkeys are reservoirs of infection 	
Question No.70	
How many abdominal segments are found in a typical insect? More than 15	
○ 6 to 11	
12 or 13	
Less than 5	
Question No.71	
In 'carbamate' poisoning following is contra indicated	
 atropine sulphate 	

○ diazepam	
pralidoxime	
Question No.72	
Insects from this order do not act as pollinators:	
Diptera	
Phasmatodea	
 Hymenoptera 	
○ Coleoptera	
Question No.73	
To which family do hard ticks belong? Argasidae	
Heptageniidae	
Simuliidae	
○ Ixodidae	
Question No.74	
'Romanas' sign is characteristic in	
Riverine blindness	
 Sleeping sickness 	
Nagana	
Chagas disease	
Question No.75	
Allare anthroponoses except	
Falciparum malaria	
 Epidemic typhus 	
 Bancroftian filariasis 	
Rabies	
Question No.76	
'Measure of dispersion' of a set of data is given by median	
o mean	
○ range	

o mode	
Question No.77	
In genetically modified(GM) mosquitoes, the following statements are true except	
 sterile males released 	
 F1 generation affected 	
 males areused 	
○ lethal genes introduced	
Question No.78	
The infective form of malaria parasite through a blood transfusion is: Schizont	
Sporozoite	
Trophozoite	
Merozoite	
Question No.79	
The term 'incidence' is defined as number of cases at a point in time	
new cases arising in a period	
cases per day	
○ cases per year	
Question No.80	
In scrub typhus the transmission occurs as man-louse-man	
○ rodent-mite-man	
⊝ man-tick-man	
○ rodent-tick-man	
Question No.81	
Mosquito whose larvae lie horizontal on water and thus rest parallel to sur of water:	face
○ Anopheles	
○ Aedes	
○ Culex	

Que	estion No.82
A del	letion of three consecutive bases in the coding region of a gene cannot t in
	 Deletion of a single amino acid without any other change in the protein
	 Replacement of a single amino acid by another without any other change in sequence of protein
	 Replacement of two adjacent amino acids by a single amino acid
	Production of a truncated protein
Que	estion No.83
	ify the method of disease transmission where the transmission is from er to offspring?
	Transveneral transmission
	 ○ Vertical transmission
	Horizontal transmission
	 Transtadial transmission
Que	estion No.84
popu	he year 2018, 182 malaria cases were reported from a district with a lationof 850000. The API is
	○ > 2
Que	estion No.85
Whic	h of the following is not re-emerging disease in India Chikungunya
	Dengue
	○ Zika
	○ KFD
_	estion No.86

○ Virus	
○ Miligen	
○ Hapten	
Question No.87	
Which of the following is a plant derivative	
○ artemesin	
amodiaquine	
primaquine	
pyrimethamine	
Question No.88	
Which of the following is a viral disease?	
○ Tuberculosis	
☐ Influenza	
Typhoid	
Diphtheria	
Question No.89	
'Andaman haemorrhagic' fever was referred to	
Malaria	
○ JE	
Dengue	
○ Leptospirosis	
Question No.90	
What is the infective stage of Kala azar pathogen?	
Sporozites	
 Trophozoite 	
 Amastigotes 	
Promastigotes	
Question No.91	
Plague transmission occurs when thevector is	
opartially blocked	

onot blocked	
○ block not a factor	
Question No.92	
Which disease is caused by body lice?	
○ Scrub typhus	
∀ellow fever	
Rickettsia typhi	
Rickettsia prowazekii	
Question No.93	
Breteau index is associated with Aedes	
Culex	
Anopheles	
Question No.94	
Kala azar is transmitted by: Armigeres subalbatus	
Amblyomma variegatum	
Phelobotomus arentipes	
Rhipicehalus sanguineus	
Question No.95	
'Berlese organ' is found in	
o mite	
bed bug	
housefly	
Question No.96	
Zika virus outbreak was recently reported from Orissad	
○ Kerala	
○ Rajasthan	

Tamil Nadu	
Question No.97	
Following statements are true about anopheles except respiratory siphon absent	
○ wings are spotted	
 eggs with lateral floats 	
 scutellum trilobed 	
Question No.98	
Mode of action of synthetic pyrethroids is tissue poison	
ganglionic poison	
axonic poison	
 AchE inhibition 	
Question No.99	
Following can be used for bio-warfare except Plague	
Yellow fever ✓ Yellow fever	
Filariasis	
Dengue	
Question No.100	
Which of the following is considered as an index of hygiene house fly	
sand fly	
○ latrine fly	
∫ fruit fly	