## Specimen Paper 2016 Answer Guide

## Unit 1

Describe TWO factures of the house means which would be be	I	Delated assessed as terms of the second state
Describe <b>TWO</b> features of the house-mouse which would help you		Pointed muzzle; large ears, longer tail, tail colour,
to distinguish it from a young common rat		small feet, notch in incisor teeth, larger eyes
Which of the following characteristics or habits can be used to	3	D
distinguish between the Norway rat and the water vole?	2	
[] Strong swimmer		Otter
[] Diet can include cereals and vegetation		
[] Droppings are found in latrines		
[] Ears are large		
[] Tail is shorter than head and body		
b) With which protocted Dritich mommel is the Mink most frequently		
b) With which protected British mammal is the Mink most frequently		
confused?	-	
In a building infested by both R. rattus and R. norvegicus, R. rattus	5	R rattus better climber. Avoids competition
would likely be found in the upper floors. Explain why this is.		
State TWO reasons why Grey Squirrels are considered pests in	5	- gnawing damage to structure,
and around buildings and gardens		pipe-work and cables – particularly
		when they enter roof spaces.
		- noise and disturbance – i.e.
		activating intruder alarms
		- Raiding bird-tables
		- Raiding refuse bins
		- Taking/damaging fruit
		- Stripping bark from trees
		disease
a) What diagona is commonly transforred via ratio wing	2	
a) What disease is commonly transferred via rat's urine.	2	a] Weils disease / leptospirosis
		()
b) What environmental conditions are required to transfer the		b) wet conditions, stagnant water, (no current)
disease?	3	
State TWO tests that can be applied to an existing drainage system	5	smokes, dyes, CCTV.
to determine if it is connected to rat activity on the surface		
	1	

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a) A defect in a public sewer is allowing rodents to enter a food	3	a) lii
storage warehouse. Which ONE of the following is responsible for	2	
the repair to the sewer?		There is a risk of explosion (1 mk) due to
		accumulation of inflammable sewer gases (1 mk)
(i) The Local Council		g
(ii) The Environment Agency		
<b>U</b>		
(iii) The Water Authority / Water Company		
(iv) The owner of the property		
(v) The occupier of the property		
b) It is proposed to check the route of entry of the rodents into the		
warehouse by lighting a smoke generator in the sewer. State why		
this might be inadvisable.		
There has been a SUDDEN increase in the feral pigeon population	2.5	breakdown in waste management practice,
at a city bakery. Give TWO possible reasons for the increase.	each	resulting in increase food availability.
at a city bakery. Give TWO possible reasons for the increase.	each	
		Displacement of birds from a neighbouring site
		due to reduction in food availability,
		proofing measures being undertaken or
		site demolition.
Mice can be controlled by the use of rodenticide baiting. State	2.5	Use of contact rodenticides; e.g. gels, sticky
TWO other methods for controlling mice.	each	boards, use of traps -breakback etc.
5		cleaning up of foods, proofing, removal of
		harbourage
a)Can a colony of bats be cleared from a loft to allow treatment to	3	a) No, bats are specifically protected under the
take place for insect pests?	J	
		Wildlife and Countryside Act 1981.
Explain your answer.		b) Rabies
b) Bats in the UK may be implicated in a disease fatal to man. What		
is the disease?		
13 IIIE UISEASE !		
	2	

The success of a rodent control strategy in a block of retail food outlets depends on using an integrated approach, involving additional measures instead of the use of rodenticides. Give TWO examples of measures that could be adopted	<ul> <li>2.5 each</li> <li>1) Carry out proofing to the premises</li> <li>2) Each of the premises have comprehensive pest control servicing contracts in place</li> <li>3) Remove food sources such as fly tipping in the area</li> <li>4) Ensure all premises in the block are treated</li> <li>5) Ensure adequate arrangements are in place for the storage/disposal of refuse/waste food.</li> <li>6) Ensure all parts of premises on the block including roofspace etc receive treatment.</li> </ul>
Rodent glue boards are an important tool for the pest control technician. If not used correctly, however, their use may be considered inhumane. List FIVE essential features of a control exercise for rodents using glueboards which will meet good industry practice	<ul> <li>Use as last resort only</li> <li>Use the correct sized board for the target rodent</li> <li>Inspect regularly preferably every 12 hours</li> <li>Ensure that you or a briefed, trained person can check the boards within the required time frame</li> <li>Do not place where not targets may be at risk</li> <li>Make a location plan with each board numbered and identified</li> <li>Dispatch trap rodents humanely</li> <li>Remove boards at the end of the treatment</li> </ul>

		Dispose of boards in a manner that non target animals cannot be trapped on them
		Indoor use only
<ul><li>a) Name two higher toxicity SGARs.</li><li>b) Why would these be considered for use.</li></ul>	2	a) the more highly toxic anticoagulants such as brodifacoum and flocoumafen, difethialone
		b)
		-Control can be achieved in a single feed.
	3	Beneficial on sites with higher alternate food
	U	source.
		-Smaller quantities of both required
Describe a baiting strategy for:		<ul> <li>a) Usually outside in protected bait boxes at ground level or directly into the burrow,</li> </ul>
a). Common rat external to property		approx 200g, a few baits laid on rat runs
b) House Mouse		b) Many small baits (20g) laid at different
		heights, indoors
		Bait in accordance with product label
		Must be included
List FIVE pieces of advice a pest controller can give to a customer	5	Removal of foliage, good hygiene practices,
to help prevent rodents being attracted to and potentially damaging		removal of harbourage points, stock
their sites		rotation, controlling water sources, regular
		pest inspections by contractor, proofing,
		cleaning

## Unit 2

<ul> <li>a) List the stages of the life cycle of the Fruit fly (Drosophila spp) – words or diagram acceptable</li> <li>b) State <b>TWO</b> common breeding sites of fruit flies</li> </ul>	2	a) egg → larvae→ pupae→adult b)
	3	

		<ul> <li>rotting vegetable matter</li> <li>rotting fruit</li> <li>the residue in empty milk or beer containers</li> <li>kitchen refuse areas</li> <li>fruit packing plants</li> </ul>
a) State TWO locations where mosquitoes are likely to breed in a domestic environment		a) Blocked gutters
b) Give THREE examples of how individuals in the community can act to reduce the incidence of mosquitoes on their property		Uncovered water butts
		Garden ponds
		b)No standing water
		Unblocking gutters, Covering water butts
		Garden ponds stocked with fish
a) Which ant (other than the garden ant ( <i>Lasius niger</i> ) is most likely to infest warm buildings such as hospitals, office blocks, bakeries, etc	2	a) Pharaoh's Ant
b) How is this ant able to transmit disease organisms from one part of a building to another?	3	<ul> <li>b) Small size, foraging, able to get into sterile dressings and wounds</li> </ul>
a) What would be a likely source of an infestation of red poultry mites in a domestic bedroom?	3	a) Birds' nests in eaves or chimneys or in window ledges.
b) What might cause red poultry mites to become a problem in domestic situations?	2	b) Birds leaving nest. Need other source of food

a) Name ONE disease which fleas may spread	1	Bubonic plague, myxamatosis
What areas require treating to eradicate fleas in a domestic property.	4	Pet bedding and sleeping areas require special attention, pet should also be treated, but by vet not pest controller. Soft furnishings.
<ul> <li>A householder complains to you that she has a severe infestation of biting insects in her house despite the absence of pet animals. Detailed investigations including intensive monitoring have failed to confirm the presence of any form of pest activity, and there is no visual evidence of bites on the person's skin,</li> <li>a) What action should a pest controller take as a result of this?</li> <li>b) What action should a pest controller NOT take?</li> </ul>	32	<ul> <li>a) Check for signs of bird mite in the roof space etc of the house</li> <li>Report case to your line manager for further action</li> <li>Recommend diplomatically that the householder contacts her health visitor/GP/practice nurse to discuss a medical resolution – possible allergic reaction to biological washing powder or a psychological condition – delusory parasitosis</li> <li>b) Decline to carry out any form of residual</li> </ul>
		treatment involving the use of chemicals e.g. insecticides
a) Name <b>THREE</b> parts of a domestic house in which cluster flies may hibernate	3 2	a) Roof void. Cavity walls. Voids around window frames.
b) Name <b>ONE</b> other insect which exhibits the same activity as a cluster fly		b) Autumn fly, fen fly
How may changing the frequency of rubbish collection from weekly to monthly affect the development of an infestation of flying insects?	5	Longer collection period would allow the insects to complete their whole life cycle, thereby, continuing the infestation.
a) A resident reports that a swarm of honeybees has just appeared on a bush in their garden. State <b>THREE</b> options for dealing with this.	1 each	a) (Treat with an approved insecticide; Get a bee- keeper to take it away; Wait for it to go away by itself)
b) A honeybees' nest in a cavity wall of a house has been carefully treated with insecticide. List <b>TWO</b> problems that may occur if no further measures are taken:	2	<ul> <li>b) (Honey may cause damp and mould etc. Other honeybees may rob the honey and be killed by the insecticide, may attract wasps) [ 2 marks]</li> </ul>

A treatment for bedbugs using a synthetic pyrethroid insecticide proves ineffective. Apart from diatomaceous earth, what alternative treatments could be considered?	5	Carbamates, heat treatment
State TWO factors which should be considered when siting an electronic fly killer.	2.5 each	Will its performance be affected by competing UV light? Will it attract pests across food or other vulnerable surfaces? Will it attract insects into the premises rather than simply controlling those present? Coverage, access for maintenance
Why is it not good practice to lay traps for cockroaches immediately following a spray treatment?		Cockroaches take several hours to die, so trap is catching dying insects, not good indicator of activity
Why should an emulsion insecticidal formulation not be used on an absorbent surface?	5	The emulsion would soak in and the insecticide would not be available.
Explain the term "domino reaction" [or "cascade effect"] when referring to particular insecticide treatments	5	"Domino reaction" /"cascade effect" generally refers to the ability of an insecticide to kill other insects within a pest colony without them directly contacting the insecticide e.g. by cannibalism, feeding on droppings of contaminated insects etc. Secondary poisoning
Give <b>TWO</b> reasons why it is good practice to recover baits following an insecticide treatment.	5	Primary poisoning Resistance Impact on environment H&S

<ul> <li>a) Under Health &amp; Safety legislation what is a "permit to work".</li> <li>b) Describe an area in a pest control work activity where such a permit would be appropriate.</li> </ul>	5	<ul> <li>a) A permit to work is a document issued after a formal check has been undertaken by site management to ensure all elements of a safe system of work are in place before work is carried out.</li> <li>b) Confined spaces - ducting systems; Hazardous areas e.g. with factory environment etc.</li> <li>Lone working</li> <li>Working at height</li> </ul>
<ul><li>(a) What does the abbreviation BPR on a product label stand for?</li><li>(b) The product label states that "appropriate PPE" should be worn. Name TWO sources that could be used to check if the PPE that is available is suitable?</li></ul>	1 4	a) Biocidal Products Regulations b) safety data sheet PPE supplier product manufacturer/distributor
The Control of Substances Hazardous to Health Regulations 2002 (COSHH) impose certain duties on employers to protect employees.		<ul> <li>Any one from</li> <li>assessing the risks to health arising from hazardous substances at work and deciding what precautions are needed,</li> </ul>
State TWO other principal duties required by the Regulations.		<ul> <li>preventing or adequately controlling exposure to harmful substances,</li> <li>ensuring that control measures are maintained, examined and tested,</li> <li>Monitoring exposure,</li> <li>ensuring that employees are properly informed, trained and supervised.</li> </ul>
List FIVE hazards that a pest controller may be exposed to in the roof space of a house.	5	Bump hazard Fall hazard Trip hazard Electrocution hazard Respiratory hazard

<ul> <li>a) List <b>THREE</b> visual checks that should be made before using a ladder</li> <li>What regulation affects the use of ladders in the workplace?</li> </ul>	<ul> <li>Rubber base pads</li> <li>Not bent Fixed brackets</li> <li>(Need additional possible answers, suggest: is it long enough, ground is even)</li> <li>Working at height Regs 2005</li> </ul>	t
State TWO objectives of the Food and Environment Protection Act, 1985	<ul> <li>5 1.To protect the health of human beings, creatur and plants</li> <li>2. To safeguard the environment</li> <li>3. To secure the safe, efficient and humane methods of controlling pests</li> <li>4. To make information about pesticides availability to the public</li> </ul>	
Section 11 (1) of the Wildlife & Countryside Act 1981 prohibits the use of certain methods of taking and killing wild animals Name <b>TWO</b> of these methods.	5 Self locking snares; bows; crossbows; explosive other than ammunition for firearms. Automatic and semi-automatic weapons	S
a) List <b>THREE</b> actions that may be implemented by an	3 Hygiene improvement notice	
enforcement officer in connection with food premises.	Hygiene emergency prohibition notice	
b) Which piece of legislation places the responsibility for rabbit control on the owner of the land on which rabbits have their warrens?	2 Seizure of food Closure of premises Pests Act, 1954	
<ul><li>a) In which Act of Parliament does it state grey squirrels have to be dispatched humanely and not released back into the wild?</li><li>b) What is the reason for this??</li></ul>	<ul> <li>a) Schedule 9 of the Wildlife and Countryside Ac 1981</li> <li>b) The grey squirrel is regarded as an invasive non-native species. As such, the grey squirrel is</li> </ul>	
	regarded as a pest species and is afforded no protection	,

a) A premises infested with cockroaches is taking no control action. Which Act of Parliament would be the most appropriate to use for treatment enforcement?	3 2	<ul><li>a) The Environmental Protection Act 1990</li><li>b) The Local Authority</li></ul>
b) Who is responsible for enforcing this Act?		
In addition to treatment records various other types of records relating to different aspects of a Pest Controller's work must be kept. Specify TWO different types of such records.	5	Store records; COSHH records; Customer information records; Disposal records. Risk assessments
Outline TWO reasons why up-to-date treatment records are important to a client.	2 x 2.5	Provides contact details for the pest management company. Recommendations for activities such as housekeeping and proofing Information about progress and effectiveness of treatment Client can use records to prove due diligence Location of pesticides, baits, traps etc.
A householder insists that rats are living in his roof space, despite a pest controller being unable to find any signs of infestastion. What action should the pest controller take in this situation?	5	None or a plain unpoisoned test bait. Tracking dust. Motion sensor camera.
A client demands that rodenticide is placed according to his/her requirements and that no further visits are necessary or acceptable. What should be the response?	5	It should be explained that rodenticidal practice is largely determined by the legal provisions of the label which also requires that further visit[s] are necessary if only to dispose of unused rodenticide and dead rodents
When you are writing a report before leaving the client's premises, the Hygiene Officer asks you not to include some serious criticism of housekeeping standards as it will get him into trouble. What is your response to this?	5	Avoid discussing issue with hygiene officer. Discuss with their manager. Report should be accurate and truthful Report back to line manager.