

Qualification name: 7457-33 Level 3 Diploma in Small Animal Veterinary Nursing
 Exam name: Level 3 Synoptic Knowledge Test – Paper 1
 Exam Version Name: September 2020



Q1	Define the following terms as set out by The Veterinary Surgeons Act 1966 Schedule 3 Amendment Order: a. Under direction. (1 mark) b. Under supervision. (1 mark)		
	Acceptable answer(s)	Guidance	Max marks
	<p>1 mark each for the following definitions</p> <p>(a) The veterinary surgeon has instructed the Registered Veterinary Nurse or student veterinary nurse as to the tasks to be performed but is not necessarily present (1)</p> <p>(b) the veterinary surgeon is present on the premises and able to respond to a request for assistance if needed (1)</p> <p>Accept any other appropriate answer</p>	<p>Veterinary Surgeons Act 1966 VN Code of Professional Conduct, Chapter 18</p>	<p>2</p>

Q2	State under what circumstances direct, continuous and personal supervision would be required. (1 mark)		
	Acceptable answer(s)	Guidance	Max marks
	<p>One mark for the following definitions</p> <p>(Direct, continuous and personal supervision would be required in the circumstances of) a student nurse carrying out minor surgery (1)</p> <p>Accept any other appropriate answer</p>	<p>Veterinary Surgeons Act 1966 VN Code of Professional Conduct, Chapter 18</p> <p>Where examples are given as answers, only accept answers where an example is given in context eg an X-ray when a student nurse is carrying it out for the 1st time. eg A student nurse not confident/competent carrying out X-rays.</p>	<p>1</p>

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Q3	A patient is being treated for a suspected MRSA infection. What two colours are the containers that should be used to dispose of the hazard waste from the patient? (2 marks)		
	Acceptable answer(s)	Guidance	Max marks
	<p>1 mark each for any of the following, to a maximum of 2 marks:</p> <ul style="list-style-type: none"> • Yellow (container) (1) • Orange (container) (1) 	BVA Good Practice Guide to Handling Waste	2

Q4	<p>a) State two examples of commonly encountered modes of communication within a veterinary practice. (2 marks)</p> <p>b) State one advantage and one disadvantage for one of your chosen modes. (2 marks)</p>		
	Acceptable answer(s)	Guidance	Max marks
	<p>a) One mark for any of the following, to a maximum of 2 marks</p> <p>Telephone (1) Face to face (1) Video conference (1) Internet (1) Social media (1) Verbal (1) Written (1)</p> <p>b) One mark for each correct advantage and disadvantage for candidate's chosen modes to a total of 2 marks</p> <p>Telephone Advantages: Time saving (1) distance is irrelevant (1) calls can be recorded (1) multi-person calls (1) caller can be put on hold</p> <p>Disadvantages: One on one "on the spot conversation" (1) participants can be distracted (1) poor telephone signal (1) environmental noise (1) cannot interpret body language (1)</p> <p>Face to face Advantages: body language can be interpreted (1) facial expression can be read (1) allows for confidential conversation in private area (1) Feedback mechanisms can be used (1)</p>		4

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	<p>Disadvantages: Communication may not be recorded (1) Requires time (1) Puts someone on the spot (1)</p> <p>Video Conference</p> <p>Advantages: distance is irrelevant (1) multi person function (1) Multiple time zones (1)</p> <p>Disadvantage: reliant on technology (1) Initial equipment expense (1)</p> <p>Internet / social media</p> <p>Advantage: distance is irrelevant (1) 24-hour availability (1)</p> <p>Disadvantage: difficult to moderate content (1) may not suit all forms of communication (e.g. emergency) (1)</p> <p><i>Any other acceptable answer</i></p>		
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Q5	Explain the purpose of the adjuvant in a killed vaccine. (2 marks)		
	Acceptable answer(s)	Guidance	Max marks
	<p><i>One mark for any of the following explanation for a total of 2 marks</i></p> <p>An adjuvant enhances the antigenicity of the vaccine/makes the vaccine more effective (1) by accelerating/prolonging/enhancing the immune response (1)</p>	<p>Similar wording acceptable</p>	<p>2</p>

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Q6	Calculate the Resting Energy Requirement (RER) for a 20kg dog. (3 marks) You must show your calculations and include units in your answer.		
	Acceptable answer(s)	Guidance	Max marks
	<p>One mark for calculation, One mark for correct answer and One mark for units. $RER = (20 \times 70)^{0.75} = 662$ kilocalories OR $RER = (20 \times 30) + 70$ OR = 670 kilocalories</p>	Unit mark is for final answer as: Kilocalories/Kcal	3

Q7	Name the dietary amino acid that is essential in the diet of cats but not dogs. (1 mark)		
	Acceptable answer(s)	Guidance	Max marks
	<p>One mark for the following; Taurine (1)</p>		1

Q8	State one canine genetic condition and the breed with which it is associated. (2 marks)		
	Acceptable answer(s)	Guidance	Max marks
	<p>One mark for the breed and One mark for the condition German Shepherds, Golden Retriever, Labrador Retriever - Hip dysplasia (1) Dalmatians – Urate urolithiasis (1) Collies - Progressive Retinal Atrophy (1) Or any acceptable answer</p>	Only give 2 marks if the breed is linked to the condition stated	2

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Q9	a) Define the term sterilisation . (1 mark) b) Provide two examples of methods used to achieve sterilisation of surgical instruments in veterinary practice. (2 marks)		
	Acceptable answer(s)	Guidance	Max marks
	<p>(a) One mark for the definition Definition: The destruction/elimination of all micro-organisms, including bacterial spores (1)</p> <p>(b) One mark for any of the following examples to a total of 1 mark Autoclave (1) Ethylene Oxide gas (1) Cold chemical sterilisation (1)</p>		3

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Q10	a) Name a suitable packaging material for a surgical instrument. (1 mark) b) State one advantage and one disadvantage of the chosen packaging material. (2 marks)		
	Acceptable answer(s)	Guidance	Max marks
	<p><i>One mark for a suitable packaging material and one mark for an advantage and one mark for a disadvantage of the stated packaging to a total of 3 marks</i></p> <p>Self-seal sterilisation pouch (1) Advantages for 1 mark</p> <ul style="list-style-type: none"> • self-sealing (1) • come with sterility indicator (1) <p>Disadvantages: for 1 mark</p> <ul style="list-style-type: none"> • paper can become wet during sterilisation (1) • can burst open if not air adequately expelled (1) • Single use (1) <p>Nylon film (1) Advantages for 1 mark</p> <ul style="list-style-type: none"> • can be re-used (1) • can be cut to size (1) <p>Disadvantages for 1 mark</p> <ul style="list-style-type: none"> • requires tape to secure (1) • can become brittle with repeated use (1) <p>Cloth drape (1) Advantages for 1 mark</p> <ul style="list-style-type: none"> • can be re-used (1) <p>Disadvantages for 1 mark</p> <ul style="list-style-type: none"> • susceptible to moisture (1) • requires tape to close (1) • may need additional outer packaging (1) <p>Paper drape (1) Advantages for 1 mark</p> <ul style="list-style-type: none"> • can be cut to size (1) • moisture repellent (1) <p>Disadvantages for 1 mark</p> <ul style="list-style-type: none"> • requires tape to close (1) • may need additional outer packaging (1) • single use only (1) <p>Autoclave instrument tray (1) Advantages for 1 mark</p> <ul style="list-style-type: none"> • can be re-used (1) 	<p>Do not accept 'easy to use' as an advantage</p>	3

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	<ul style="list-style-type: none">perforated to allow for circulation of steam/gas (1)durable (1) <p>Disadvantages for 1 mark</p> <ul style="list-style-type: none">expensive initial cost (1) <p>Accept any other appropriate answer</p>		
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Q11	Define the term incubation period . (1 mark)		
	Acceptable answer(s)	Guidance	Max marks
	<p><i>One mark for the following for the total of 1 mark</i></p> <p>The period between exposure to a disease and onset of clinical signs</p>	Similar wording acceptable	1

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Q12	Name a disease caused by bacteria and the structure of bacterium responsible. (2 marks)		
	Acceptable answer(s)	Guidance	Max marks
	<p><i>One for disease and One mark for classification</i></p> <p>MRSA (1) – staphylococcus (1) Pyoderma (1) - staphylococcus (1) Kennel Cough (1) – bacilli rods (1) Salmonellosis (1) – bacilli rods (1) Tetanus (1) – bacilli rods (1) Leptospirosis (1) – spirochete (1) Lyme disease (1) – spirochete (1) Sepsis (1) – streptococci (1)</p> <p><i>Any other acceptable answer</i></p>	<p>For MRSA full name of disease not required</p> <p>For bacterium italics and spp are not required</p> <p>Also accept anatomical structure</p>	2

Q13	<p>(a) Explain why it is important to implement a barrier nursing protocol for a lone parrot with Psittacosis. (1 mark)</p> <p>(b) List two items of personal protective equipment (PPE) essential for nursing a patient with Psittacosis. (2 marks)</p>		
	Acceptable answer(s)	Guidance	Max marks
	<p>(a) one mark for the following</p> <p>It is important to implement barrier nursing because psittacosis is highly contagious/zoonotic condition (1)</p> <p>(b) One mark for any of the following, to a total of 2 marks</p> <p>Face mask (respiratory protective equipment) (1) Gloves (1) Apron (1) Shoe covers (1)</p> <p><i>Any other acceptable answer</i></p>		3

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Q14	Describe the route a drug takes from ingestion to site of action, following administration by the oral route. (5 marks)		
	Acceptable answer(s)	Guidance	Max marks
	<p>One mark for each of the following, to a total of 5 marks</p> <p><i>The oral drug will be digested/broken down in the upper digestive tract/digestion starts in the mouth and travels down the oesophagus (1), the drug will move through the intestinal wall (1), enters the hepatic portal system/travels to the liver (1). It is metabolised by the liver (1) and moves to site of action (1) via the bloodstream (1) Is removed via an excretion route (1).</i></p> <p><i>Any other acceptable answer</i></p>		5

Q15	State the difference between the generic name and the trade name of a drug. (2 marks)		
	Acceptable answer(s)	Guidance	Max marks
	<p>One mark for any of the following, to a total of 2 marks</p> <ul style="list-style-type: none"> • Generic name – The common name of the active ingredient (of a product) (1) • Trade name –The drug name specific to a (particular pharmaceutical) company (1) 	similar wording is acceptable	2

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Q16	State three adverse events that must be reported to the Veterinary Medicines Directorate (VMD). (3 marks)		
	Acceptable answer(s)	Guidance	Max marks
	<p>One mark for any of the following, to a total of 3 marks</p> <ul style="list-style-type: none"> • Adverse drug reaction/prolonged signs for animals treated (1) • Allergies (1) • Problem with a microchip (1) • Lack of drug efficacy (1) • Vaccine reaction (1) • Human reaction to an animal medicine (1) • Significant disability/congenital abnormality (1) • Death (1) <p><i>Any other acceptable answer</i></p>	<p>Do not accept 'Adverse event' unless a specific adverse event is named eg allergy.</p> <p>Do not award multiple marks for the same point written differently eg adverse drug reaction/allergy</p>	3

Q17	Define the terms subjective information and objective information gathered as part of the SOAP/IER method of patient assessment. (2 marks)		
	Acceptable answer(s)	Guidance	Max marks
	<p>One mark for any of the following, to a total of 2 marks</p> <ul style="list-style-type: none"> • Subjective – Based on or influenced by feelings, opinions or impressions (1). (Includes owner's account of the history, personal impression of the animal's wellbeing and perception of the problem) • Objective – Factual, measurable data (1) (such as vital signs (TPR etc.) weight, diagnostic tests and directly observed, specific behaviours.) 	similar wording acceptable	2

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Q18	Define the terms medical model and nursing-focused model in relation to models of patient care. (2 marks)		
	Acceptable answer(s)	Guidance	Max marks
	<p>One mark for any of the following definition, to a total of 2 marks</p> <p>Medical model - a disease orientated approach to patient care (which is typically associated with the veterinary surgeon) (1).</p> <p>Nursing model – Places the patient and the nursing care of that patient, at the centre of the care plan, rather than the disease. (1)</p>	similar wording acceptable	2

Q19	Define the term pulse deficit . (1 mark)		
	Acceptable answer(s)	Guidance	Max marks
	<p>One mark for the following answer</p> <p>Lack of synchronisation between the heartbeat and pulse rate (1)</p>	similar wording acceptable	1

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Q20	Explain the difference between the terms infection and colonisation in relation to a wound. (2 marks)		
	Acceptable answer(s)	Guidance	Max marks
	<p><i>One mark for each of the following, to a total of 2 marks</i></p> <p>Infection – the presence of multiplying bacteria with an immune response from the body (1)</p> <p>Colonisation – the presence of multiplying bacteria but with no immune response from the host (1)</p> <p>Both infection and colonisation have multiplying bacteria present but with infection there is also an immune response from the body</p>	<p>similar wording is acceptable</p>	2

Q21	State two types of wound debridement. (2 marks)		
	Acceptable answer(s)	Guidance	Max marks
	<p><i>One mark for any of the following, to a total of 1 mark</i></p> <ul style="list-style-type: none">• Surgical (1)• Mechanical (1)• Chemical (1)• Autolytic (1)• Biological (1)	<p>Similar wording is acceptable</p> <p>Do not accept non-surgical</p> <p>Accept descriptions or examples</p>	2

Q22	<p>A geriatric cat is hospitalised for investigations due to anorexia and inappetence. The cat is an indoor cat from a multi cat household.</p> <p>Produce a nursing care plan for the assessment and care of the cat during its stay. (12 marks)</p>		
	Acceptable answer(s)	Guidance	Max marks
	<p>Band 1 (1-4 marks) A limited range of considerations with a mostly descriptive answer showing clear gaps in knowledge and limited understanding. Candidate attempts to use technical terminology infrequently.</p> <p>To access the higher marks in the band The candidate demonstrates a wider range of considerations with superficial explanations, which may not all be valid. Attempted to provide some explanations, but may not all be relevant.</p> <p>Band 2 (5-8 marks) The candidate considered a range of aspects of the topic with a developed discussion showing clear knowledge and understanding with some gaps. Technical terminology is used frequently.</p> <p>To access the higher marks in the band Discussion is supported with relevant explanation(s) with clear and valid links to the topic.</p> <p>Band 3 (9-12 marks) Candidate considered a wide range of aspects of the topic with a comprehensive discussion showing thorough knowledge and understanding. Technical terminology is used correctly and appropriately throughout.</p> <p>To access the higher marks in the band The discussion is supported using a broad range of highly relevant links to the topic with clear and detailed justifications.</p>	<p>Indicative content</p> <p>The question requires a plan of care which could be presented in a variety of ways but should include the following information</p> <ul style="list-style-type: none"> • Dietary requirements of geriatric cats • Nutritional deficiencies • Specific care requirements of geriatric cats. • Consideration of assisted feeding • Vital signs monitored • SOAP/IER model of assessment • Patient assessment • Application of suitable nursing model • Accommodation / environment needs • Owner related factors • Typical behaviour / behavioural changes • Physical/ sensory factors • Health & safety • Use of nursing model(s)/activities of living 	12