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Qualification name: 7457-43 Level 3 Diploma in Equine Veterinary Nursing
Exam name: Level 3 Synoptic Knowledge Test – Paper 2
Exam Version Name: June 2021

Q1	State three actions that should be taken to ensure euthanasia is carried out with consideration for the owner's feelings. (3 marks)		
Q1	Acceptable answer(s)	Guidance	Max Marks
Q1	One mark for each of the following up to a maximum of three marks: <ul style="list-style-type: none">• Prepare the client e.g. talking through the procedure (1)• Arranging at a time/date to suit them (1)• Make sure no unnecessary personnel are around (1)• Carry out the process in a discrete area (1)• Empathise with the client (1)• Offer support services (1)• Treat the patient with respect (1) <i>Any other relevant answer</i>		3

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Q2	Explain three nursing interventions that should be put in place for a hospitalised laminitic patient. (6 marks)		
Q2	Acceptable answer(s)	Guidance	Max Marks
Q2	<p>One mark for each intervention, one mark for explanation of intervention up to a maximum of six marks:</p> <ul style="list-style-type: none">• Box rest (1) – important to limit movement/prevent further damage (1)• Deep bedding (1) – important to help to support the feet (1)• Dust free environment (1) – important to reduce the risk of respiratory irritation (1)• Groom the horse (1) – important to increase circulation (1).• Apply frog supports (1) – important to provide support to the feet (1).• Feed from a raised surface (1) – important not to overload the front feet (1)• Stable near other horses (1) – important to reduce anxiety (1)• Provide environmental enrichment (1) – important to prevent boredom (1)• Provide forage (1) – prevent development of stereotypies/gastric ulcers (1) <p><i>Any other relevant answer</i></p>		6

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Q3	Explain two requirements of an effective discharge for a patient that needs a bandage change at home. (4 marks)		
Q3	Acceptable answer(s)	Guidance	Max Marks
Q3	<p>One mark for each of the following up to a maximum of four marks:</p> <ul style="list-style-type: none">• Talk through the discharge instructions verbally (1) to allow the client to ask questions (1)• Give written discharge instructions for the client to refer to (1) as they will not retain all the information given to them verbally (1)• Demonstrate bandaging techniques to client (1) to facilitate learning (1)• Get the client to demonstrate bandaging back to you (1) to check understanding (1)• Ask the client to repeat the information back to you (1) to check understanding (1)• Arrange a follow up appointment (1) to check patient progress (1) <p><i>Any other relevant answer</i></p>		4

Q4 a) Name the surgical instrument in **Figure 1**. (1 mark)
 b) Describe its use. (1 mark)



Figure 1

https://img.medicaexpo.com/images_me/photo-mg/109952-11040102.jpg

Q4	Acceptable answer(s)	Guidance	Max Marks
Q4	<p>One mark for each of the following up to a maximum of two marks:</p> <p>a) Instrument ID: Olsen Hegar Needle Holders (1)</p> <p>b) Instrument use: Used for stitching and cutting sutures (1)</p>	<p>a. Do not accept needle holder/needle driver</p> <p>b. Do not accept for holding/driving needles</p>	2

Q5	Define the following radiographic terms:		
	a) Density.	(1 mark)	
	b) Contrast.	(1 mark)	
	c) Definition.	(1 mark)	
	d) Film focal distance.	(1 mark)	
Q5	Acceptable answer(s)	Guidance	Max Marks
Q5	<p>One mark for each of the following up to a maximum of four marks:</p> <p>a) Radiographic density: Is the degree of blackening of the film (1)</p> <p>b) Radiographic contrast: Is the difference between various radiographic densities/shades of grey on the radiograph (1)</p> <p>c) Radiographic definition: Refers to the sharpness/clarity of the structures visible on the radiograph (1)</p> <p>d) Film focal distance: The distance between x-ray machine and the plate (1).</p>	Does not have to be the exact wording as long as the concept is correct	4

Q6	Describe the patient preparation required for a Magnetic Resonance Imaging (MRI) procedure in an equine practice. (4 marks)		
Q6	Acceptable answer(s)	Guidance	Max Marks
Q6	<p>One mark for each of the following up to a maximum of four marks:</p> <ul style="list-style-type: none"> • MRI is usually carried out with the patient standing to avoid a general anaesthetic (1) • The patient is usually sedated to keep them still for safety/image quality (1) • Shoes need to be removed due to the use of the magnet (1) • Feet need to be radiographed beforehand to detect any remaining nail clenches (1) • Limb needs to be placed within the magnetic field with a coil around the area to be scanned. (1) <p><i>Any other relevant answer</i></p>		4

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Q7	Describe how a muscle biopsy sample should be preserved for safe transport to a laboratory. (3 marks)	
Q7	Acceptable answer(s)	Guidance
Q7	<p>One mark for each of the following up to a maximum of three marks:</p> <ul style="list-style-type: none"> • Place in 10% formalin (1) • A wide necked container should be used (1) • Sample containers should be robust/leak proof (1) • At least 10 times the volume of fixative should be used (1) <p><i>Any other relevant answer</i></p>	3

Q8	<p>A horse requires a stitch up of a small skin wound on the left pectoral area.</p> <p>a) State what suture pattern should be used. (1 mark)</p> <p>b) Give two reasons for using this. (2 marks)</p>	
Q8	Acceptable answer(s)	Guidance
Q8	<p>One mark for each of the following up to a maximum of one mark</p> <p>a) Suture pattern:</p> <ul style="list-style-type: none"> • Continuous suture pattern (1) <p>b) One mark for each of the following up to a maximum of two marks:</p> <p>Reasons:</p> <ul style="list-style-type: none"> • Quick suture pattern to perform (1) • Good for areas of low tension such as the skin (1) • Economical on stitch material (1) • Creates good, even tension for a skin wound (1) <p><i>Any other relevant answer</i></p>	3

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Q9	Define the following terms: a) Criminal law. b) Civil law.	(1 mark) (1 mark)	
Q9	Acceptable answer(s)	Guidance	Max Marks
Q9	One mark for each of the following up to a maximum of two marks: a) Criminal law: maintains law and order to protect the public (1). b) Civil law: upholds the rights of the individual (1)	Does not have to be exact wording as long as the concept is correct.	2

Q10	Name the secondary legislation that outlines the legal practice of a veterinary nurse.	(1 mark)	
Q10	Acceptable answer(s)	Guidance	Max Marks
Q10	One mark for the following, to a maximum of one mark: Schedule 3 (amendment order 2002) of The Veterinary Surgeons Act 1966	Allow: Schedule 3 Schedule 3 (2002) Veterinary Surgeons Act Part 2: Schedule 3 Answer must include 'Schedule 3' Or any other reasonable answer	1

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Q11	Explain the role of the Royal College of Veterinary Surgeons (RCVS) as a regulator in public protection. (2 marks)		
Q11	Acceptable answer(s)	Guidance	Max Marks
Q11	One mark for each of the following up to a maximum of two marks: <ul style="list-style-type: none">• Investigate complaints/malpractice (1) to ensure that all registered professionals are meeting their professional code of conduct/standards (1)• To ensure the members meet the professional standards (for the period of registration) (1) by monitoring compliance/CPD (1)• Approve qualification/ registration rules (1) to maintain the industry standard/legislation (1) <i>Any other reasonable answer</i>		2

Q12	Give two reasons why each of the following are important components of pre-anaesthetic preparation: <ul style="list-style-type: none"> a) Fasting. (2 marks) b) Shoe removal. (2 marks) c) Premedication. (2 marks) 		
Q12	Acceptable answer(s)	Guidance	Max Marks
Q12	<p>One mark for each of the following up to a maximum of two marks:</p> <p>a) Fasting:</p> <ul style="list-style-type: none"> • Reduces the weight of the gastrointestinal tract on the diaphragm and so facilitates breathing (1) • Reduces the chances of stomach rupture on induction (1) <p>One mark for each of the following up to a maximum of two marks:</p> <p>b) Shoe removal:</p> <ul style="list-style-type: none"> • Prevents injury to the horse (1) • Prevents damage to the floor of the knock down box (1) • Prevents injury to personnel (1) <p>One mark for each of the following up to a maximum of two marks:</p> <p>c) Premedication:</p> <ul style="list-style-type: none"> • Calms the patient and therefore reduces injury to the horse (1) • Calms the patient and therefore reduces injury to personnel (1) • Contributes to multimodal anaesthesia and therefore improves the anaesthetic quality (1) <p><i>Any other relevant answer</i></p>	<p>Does not have to be exact wording as long as the concept is correct.</p>	6

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Q13	State two requirements for a successful handover of a patient following a general anaesthetic. (2 marks)		
Q13	Acceptable answer(s)	Guidance	Max Marks
Q13	<p>One mark for each of the following up to a maximum of two marks:</p> <ul style="list-style-type: none"> • Preparation of suitable recovery accommodation (1) • Careful transition to recovery accommodation (1) • Handover information: vital signs/wound appearance/time and quality of recovery/post anaesthetic complications (1) • Treatment instructions (1) • Relevant patient records (1) <p><i>Any other relevant answer</i></p>		2

Q14	<p>a) Define the term 'triage'.</p> <p>b) Identify two disorders that would be classified as urgent cases.</p>		<p>(1 mark)</p> <p>(2 marks)</p>
Q14	Acceptable answer(s)	Guidance	Max Marks
Q14	<p>One mark for the following up to a maximum of one mark:</p> <p>a) Triage: The process of determining the priority of patients' treatment based on the severity of their condition (1)</p> <p>One mark for each of the following up to a maximum of two marks:</p> <p>b) Urgent cases:</p> <ul style="list-style-type: none"> • Surgical colic (1) • Fracture (1) • Atypical myopathy (1) • Septicaemic foal (1) • Airway obstruction (1) • Guttural pouch mycosis (1) <p><i>Any other relevant answer</i></p>	Does not have to be exact wording as long as the concept is correct.	3

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Q15	a) Explain the purpose of an electrocardiogram and the parameters it measures. b) Give one example of when it may be used to monitor a critical patient.	(2 marks) (1 mark)	
Q15	Acceptable answer(s)	Guidance	
Q15	<p>a) One mark for each of the following up to a maximum of 2 marks:</p> <p>Purpose:</p> <ul style="list-style-type: none"> • ECG provides information on the electrical activity of the heart/ gives information regarding heart rate and rhythm (1) • Parameters: Maps out the electrical activity of the heart into PQRST complexes (1) <p>b) 1 mark for any of the following to a maximum of 1 mark.</p> <ul style="list-style-type: none"> • Allows for identification of arrhythmias (1) • Can be useful when monitoring patients with: colic/hypocalcemia/atypical myopathy/atrial fibrillation (1) <p><i>Any other relevant answer</i></p>		3

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Q16	Describe three actions to take when providing first aid treatment to a patient with a haemorrhaging leg wound. (3 marks)		
Q16	Acceptable answer(s)	Guidance	Max Marks
Q16	<p>One mark for each of the following up to a maximum of three marks:</p> <ul style="list-style-type: none"> • Ensure the patient is correctly restrained to prevent further injury to personnel/the patient (1) • Apply pressure to the wound with a bandage to stem the bleeding/pack the wound (1) • If the haemorrhage continues, apply more pressure/do not remove the original bandage (1) • Seek veterinary direction regarding pain relief (1) • Prepare any equipment required e.g. x-ray machine/ultrasound scanner to allow further investigation (1) • Prepare any fluids/blood products to help to restore circulating volume (1) • Apply a tourniquet above the wound to stem the bleeding (1) • Apply pressure to the most cranial artery to stem the bleeding (1) 	Do not accept – stop the bleeding	3

Q17	<p>An adult horse requires cardiopulmonary resuscitation in the operating theatre, at the practice.</p> <p>Discuss the process of cardiopulmonary resuscitation in a horse, including protocols and management of personnel. (9 marks)</p>		
Q17	Acceptable answer(s)	Guidance	Max Marks
Q17	<p>Band 1 (1-3 marks)</p> <p>A limited range of considerations with a mostly descriptive answer showing clear gaps in knowledge and limited understanding. Candidate attempts to use technical language infrequently. Attempted to provide some explanations but may not all be relevant.</p> <p>Band 2 (4-6 marks)</p> <p>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. Discussion is supported with relevant explanation(s)</p> <p>Band 3 (7-9 marks)</p> <p>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. 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>Drugs:</p> <ul style="list-style-type: none"> • Contents of a crash kit: • Adrenaline • Atropine • Lidocaine • Dobutamine • Catheters • IV fluids – crystalloids • Trach tubes • IV catheters <p>Equipment:</p> <ul style="list-style-type: none"> • ET tubes • GA circuit • Defibrillator • Stethoscope • ECG <p>Protocols:</p> <ul style="list-style-type: none"> • Airway, breathing, circulation, drugs, electrical defibrillation, follow up (ABC system) • Turn volatile agent off • Note the time • Begin IPPV with pure oxygen • External cardiac massage – left lateral recumbency, jump on horse landing with knees over heart. • 30 compressions per minute. • Once circulation restored give drugs – adrenaline followed by atropine if no response seen. • Lidocaine used for dysrhythmias. • Dobutamine used in the case of hypotension. • Success rate 2:50 if caught early enough. 	9

		<p>Personnel management:</p> <ul style="list-style-type: none">• Health and safety main concern.• All staff members have a role.• Anaesthetist in charge.• One person – IPPV• One person – drawing up drugs• Two people (minimum) to perform cardiac massage as is exhausting).	
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