

B.V.Sc. & A.H. (Fourth Professional) Examination – 2022
Veterinary Surgery and Radiology Paper-I

Time: Three Hours

Maximum Marks: 100
Weightage: 20

- Unit-1 (Veterinary General Surgery)
- Unit-2 (Veterinary Anaesthesiology)
- Unit-3 (Veterinary Diagnostic Imaging Techniques)
- Unit-4 (Regional Surgery-I)

Instructions:

- 1) Attempt all questions
- 2) Answer of all questions is to be written in the space provided along with the question in question-booklet.
- 3) Overwriting is not allowed in the objective type question.

Q.1 Fill in the blanks.

(20x0.5 = 10)

- 1.1 Injectable anaesthetic induction agent of choice for nonhuman primates is _____
- 1.2 Surgery done to confirm a diagnosis is _____
- 1.3 Temperature and pressure required during autoclaving of surgical pack is _____ & _____ for 15 minutes.
- 1.4 The solvent for diazepam which may cause hypotension and cardiac arrhythmia is _____
- 1.5 Bunnell-Meyer sutures are used for the repair of _____
- 1.6 _____ type of anaesthesia produces anaesthesia by stimulating some of the brain centres rather than by depressing them.
- 1.7 Reduces tracheal airflow produces "roar" sound in horses under work due to the damage of the _____
- 1.8 Extensive growth of granulation tissue during the process of wound healing in horses is known as _____
- 1.9 Cornual branches of _____ & _____ nerves should be blocked for performing cornual nerve block in goats.
- 1.10 Grid is a flat plate having alternating strips of _____ & _____ encased in a protective covering of thin aluminum.
- 1.11 Focal film distance of _____ cm is appropriate for most of the radiographic procedures.

- 1.12 The most suitable age for disbudding in bovine is _____ days.
- 1.13 _____ is the common clinical sign in bovines suffering from irregular molars.
- 1.14 _____ is a part or fold of normal skin on the cornea or conjunctiva.
- 1.15 Elevation of intraocular pressure, accompanied by impaired ocular function is responsible for _____
- 1.16 _____ is an antidote of xylazine.
- 1.17 Zepp's operation is performed for the treatment of _____ in canines
- 1.18 _____ (organism) is responsible for eye worm condition in the horses
- 1.19 Ideal gestational period for radiographic diagnosis of pregnancy in bitches is _____ days.
- 1.20 _____ is used to confirm Kerato-conjunctivitis sicca

Q.2 Choose the most suitable answer and write the number of the correct answer 1 or 2 or 3 or 4 in the space given against each sub question: (20x0.5 = 10)

- 2.1 1ml of 5% Ketamine injection will contain _____ mg of Ketamine. ()
1. 5mg
 2. 50 mg
 3. 500 mg
 4. 5000 mg
- 2.2 All except the following is a pre anaesthetic agent ()
1. Atropine sulfate
 2. Diazepam
 3. Ketamine
 4. Acepromazine
- 2.3 The following is a wrong statement about a cyst ()
1. It is inflammatory
 2. It has a well defined periphery
 3. It fluctuates
 4. It is slow in development
- 2.4 Which is not a synthetic absorbable suture material ()
1. Vicryl
 2. Dexon
 3. Catgut
 4. Polydioxanone

- 2.5 For examination of eye in cattle _____ nerve block is used ()
1. Auriculopalpebral
 2. Lacrymal
 3. Mental
 4. Infra orbital
- 2.6 Blood loss, dehydration and burns will lead to ()
1. Cardiogenic shock
 2. Hypovolaemic shock
 3. Anaphylactic shock
 4. Vasculogenic shock
- 2.7 The following once destroyed will not be regenerated ()
1. Bone
 2. Neuron
 3. Skin
 4. Mucous membrane
- 2.8 Arrange the following according to the suture holding power of tissue ()
1. Tendon > Skin > Muscle > Fat
 2. Fat > Tendon > Muscle > Skin
 3. Muscle > Fat > Tendon > Skin
 4. Fat > Muscle > Tendon > Skin
- 2.9 Ultrasound are the sound waves of frequency ()
1. Greater than 2000Hz
 2. Below 2000Hz
 3. Greater than 20000Hz
 4. All the above are true
- 2.10 The materials used for decreasing the radio densities of the tissues are called as ()
1. Negative contrast agents
 2. Positive contrast agents
 3. Mixed contrast agents
 4. None of the above.
- 2.11 Fast speed x-ray film are ()
1. Having smaller silver halide crystals
 2. Require less exposure time
 3. Both the above
 4. None of the above.
- 2.12 Disbudding in buffalo calves is done under ()
1. Corneal nerve block
 2. Epidural nerve block
 3. General anaesthesia
 4. All the above three can be performed
- 2.13 The following is not essential for treatment of wound ()
1. Control of infection
 2. Immobilization
 3. Proper drainage
 4. Suturing

- 2.14 Grid is placed between ()
1. Part to be examined and x-ray beam
 2. Part to be examined and x-ray cassette
 3. Inside the x-ray cassette
 4. All the above
- 2.15 Developer ()
1. Reduces exposed silver halide crystals of the film to metallic silver
 2. Remove the unexposed silver halide crystals
 3. Shrinks and hardens the film emulsion
 4. All the above
- 2.16 Ethylene oxide gas is used for ()
- 1 Sterilization of surgical site
 - 2 Sterilization of operation theatre
 - 3 Sterilization of Suture materials
 - 4 All the above
- 2.17 Treatment of abscess should include ()
- 1 Closure of skin wound followed by antiseptic dressing
 - 2 Surgical opening of the skin followed by antiseptic dressing
 - 3 Local desensitization by Lignocaine
 - 4 Surgical opening of the skin wound followed by skin suturing and antiseptic dressing
- 2.18 Ring block is used for ()
- 1 Teat laceration
 - 2 Femur fracture
 - 3 Ear haematoma
 - 4 All of the above
- 2.19 Interference with the drainage of aqueous humour of eye can predispose to ()
- 1 Hydrophthalmos
 - 2 Cataract
 - 3 Entropion
 - 4 Strabismus
- 2.20 Aphakia is a condition in which there is ()
- 1 Absence of iris
 - 2 Absence of the lens in the eyeball
 - 3 Opacification of eyeball
 - 4 Opacification of lens of eye

Q.3 Attempt any ten out of the following twelve questions. Answer of each question should be in 2 to 3 lines. (10x2.0= 20)

3.1 Surgery

.....

.....

.....

3.2 Asepsis

.....

.....

.....

.....

3.3 Shock

.....

.....

.....

.....

3.4 Prognathism

.....

.....

.....

.....

3.5 Balanced anaesthesia

.....

.....

.....

.....

3.6 Radiographic quality

.....

.....

.....

.....

3.7 Grid cut off

.....
.....
.....

3.8 Safe light

.....
.....
.....

3.9 Acoustic shadowing

.....
.....
.....

3.10 Ranula

.....
.....
.....

3.11 Dulla

.....
.....
.....

3.12 Chalazion

.....
.....
.....

Q.4 Attempt any six out of the following eight questions. Answer of each question should be in 8 to 10 lines. (6 x 6.0 = 36)

4.1 Properties of ideal suture pattern

Handwritten answer for question 4.1, consisting of approximately 10 lines of text written in blue ink on lined paper. The text is mostly illegible due to blurring and bleed-through from the reverse side of the page.

4.2 Composition of intensifying screen

Handwritten answer for question 4.2, consisting of approximately 10 lines of text written in blue ink on lined paper. The text is mostly illegible due to blurring and bleed-through from the reverse side of the page.

4.5 Primary and secondary cleft palate

Blank lined area for writing the answer to question 4.5.

4.6 Tenets of Halsted

Blank lined area for writing the answer to question 4.6.

4.7 Radiographic faults

4.8 Treatment of glaucoma

- Q.5 Answer the following question in 1-2 pages (attempt any two). (2x12.0 = 24)**
- 5.1 Discuss the stages of wound healing and the factors affecting wound healing
 - 5.2 Write about the aetiology, symptoms, diagnosis and treatment of esophageal obstruction in a buffalo.
 - 5.3 Applications of contrast radiography for image improvement in veterinary patients.