

**MIZORAM PUBLIC SERVICE COMMISSION**  
**AGRICULTURE & ALLIED SERVICES (COMBINED TECHNICAL)**  
**EXAMINATION, 2024 FOR RECRUITMENT OF**  
**JR. GRADE OF MIZORAM ANIMAL HUSBANDRY & VETERINARY SERVICE**  
**UNDER ANIMAL HUSBANDRY & VETERINARY DEPARTMENT,**  
**GOVERNMENT OF MIZORAM, DECEMBER-2024.**

**AH & VETY PAPER-III**

Time Allowed : 3 hours

FM : 200

**SECTION - A (Multiple Choice Questions) (100 Marks)**

*All questions carry equal mark of 2 each. Attempt all questions.*

*This Section should be answered only on the OMR Response Sheet provided.*

1. Which of the following can prolong the effect of Local anesthetic?
  - (a) Ether
  - (b) Hyaluronidase
  - (c) Epinephrine
  - (d) Dexamethasone
2. Which of the following is Neuroleptanalgesic?
  - (a) Ketamine & Xylazine
  - (b) Fentanyl & Morphine
  - (c) Fentanyl & Droperidol
  - (d) Propofol & Atropine
3. The penetrating power of X-ray beam depends on-
  - (a) Wavelength
  - (b) kVp
  - (c) Hz
  - (d) mAs
4. Catgut is made up from-
  - (a) Tunica sub-mucosa of small intestine of dog.
  - (b) Tunica submucosa of small intestine of sheep.
  - (c) Tunica serosa of small intestine of pig.
  - (d) Tunica muscularis of small intestine of Ox.
5. Benign tumor on gingiva in dog is called-
  - (a) Epulis
  - (b) Etulis
  - (c) Squamous Cell Carcinoma
  - (d) Sarcoma
6. Spiral fracture is most common in-
  - (a) Femur
  - (b) Tibia
  - (c) Radius
  - (d) Humerus

7. Adhesion of iris to cornea is known as-
- (a) Chemosis
  - (b) Posterior synechia
  - (c) Anterior synechia
  - (d) Epiphora
8. Peterson's block is practiced to anaesthetize.
- (a) Teeth
  - (b) Eye
  - (c) Flank
  - (d) Limb
9. Which of the following calculi is radiolucent?
- (a) Calcium oxalate
  - (b) Struvite
  - (c) Cystine
  - (d) Calcium carbonate
10. Fixation of uterus with pelvic or abdominal wall is called-
- (a) Vaginopexy.
  - (b) Hysteropexy.
  - (c) Cystopexy.
  - (d) Cervicopexy.
11. Dropped elbow condition is observed in-
- (a) Crural nerve paralysis.
  - (b) Radial nerve paralysis.
  - (c) Peroneal nerve paralysis.
  - (d) Volar nerve paralysis.
12. Lactation tetany in horse is due to-
- (a) Hypocalcemia
  - (b) Hypomagnesemia
  - (c) Hypokelamia
  - (d) Hypo chloremia
13. Sour smell of rumen fluid is characteristics of-
- (a) Acidosis
  - (b) Alkalosis
  - (c) Simple indigestion
  - (d) Vagus indigestion
14. Which of the following enzyme is increased in Downer cow syndrome?
- (a) CPK
  - (b) Arginase
  - (c) Amylase
  - (d) Lipase
15. Perosis on poultry is caused by the deficiency of which mineral?
- (a) Calcium
  - (b) Manganeese
  - (c) Magnesium
  - (d) Copper
16. An example of plasma volume expander is-
- (a) Gelatine
  - (b) 0.89% Normal Saline
  - (c) 2.5% Dextrose
  - (d) Ringer lactate
17. The dog breed having genetic predisposition to cardiac hypertrophy -
- (a) Grey hound
  - (b) Pitbull
  - (c) Mongrel
  - (d) Labrador retriever
18. Carbamate poisoning in dog is best treated with-
- (a) Sodium bicarbonate
  - (b) Methylene blue
  - (c) Dimercaprol
  - (d) Atropine sulphate

19. Father of Veterinary Medicine:

- (a) Salihotra
- (b) Rudolph Virchow
- (c) Ranatus Vegetius
- (d) Hippocrates

20. Inflammation of the ligament is known as-

- (a) Tendinitis.
- (b) Desmitis.
- (c) Cellulitis.
- (d) Orchitis

21. Placentophagy is not observed in-

- (a) Cat
- (b) Mare
- (c) Cows
- (d) Sow

22. Swiss cheese appearance of endometrium is condition noticed in-

- (a) Paraovarian cyst
- (b) Cystic corpora lutea
- (c) Cystic ovary
- (d) Delayed ovulation

23. Which of the following hormone is most commonly used for superovulation?

- (a) PMSG
- (b) FSH
- (c) Estrogen
- (d) Both (a) and (b)

24. Ware house of spermatozoa is-

- (a) Testes
- (b) Vas deferens
- (c) Epididymis
- (d) Sertoli cell

25. In case of freemartinism condition ovaries are-

- (a) Normal
- (b) Hypoplastic
- (c) Hyperplastic
- (d) Aplastic

26. Post service/post coital pyometra is observed in-

- (a) Trichomoniasis
- (b) Vibriosis
- (c) IBR-IPV infection
- (d) Brucellosis

27. Bilateral hip flexion is characterized by-

- (a) Dog sitting posture
- (b) Poll presentation
- (c) Foot nape posture
- (d) Breech presentation

28. Safest drug of choice for canine pseudopregnancy is-

- (a) Bromocriptin
- (b) Cabergolin
- (c) Mifepristone
- (d) Prostaglandin

29. Most commonly used cryoprotectant for cell cryopreservation is -

- (a) Glycerol due to its low membrane permeability
- (b) Glycerol due to its high membrane permeability
- (c) DMSO due to its low membrane permeability
- (d) DMSO due to its high membrane permeability

30. Seeding of embryo is done at-
- (a) 0°C (b) -6 to -7 °C  
(c) 10°C (d) 6 to 7 °C
31. The primary site of drug metabolism is –
- (a) Kidney (b) Liver  
(c) Lung (d) Plasma
32. Enteric coated tablets are used to avoid destruction of a drug by -
- (a) Moisture (b) Sunlight.  
(c) Gastric juice (d) Microsomal enzymes.
33. The venom of cobra and kraits is mainly-
- (a) Neurotoxic (b) Hemotoxic  
(c) Hepatotoxic (d) Nephrotoxic
34. Metabolism or biotransformation makes the drugs –
- (a) More lipid soluble (b) More water soluble  
(c) Solubility does not change (d) Becomes both water and fat soluble
35. The neurotransmitter of all pre-ganglionic nerve fibre is –
- (a) Nor-adrenaline (b) Acetylcholine  
(c) Adrenaline (d) Dopamine
36. Which of the following is not a cardiac glycoside?
- (a) Digitoxin (b) Strophanthin  
(c) Cocaine (d) Digoxin
37. Pilocarpine, when instilled into eye produces –
- (a) Only miosis (b) Miosis with spasm of accommodation  
(c) Only mydriasis (d) Only spasm of accommodation.
38. The treatment of organophosphate insecticide poisoning is –
- (a) Atropine alone (b) Atropine and Pralidoxime  
(c) Neostigmine (d) Atropine and Neostigmine
39. Plants causing Teratogenicity is-
- (a) Datura alba (b) Parthenium  
(c) Veratrum plants (d) Bamboo
40. The antiseptic action of potassium permanent is due to-
- (a) Astringent (b) Oxidising action  
(c) Reducing action (d) Antioxidant
41. Number of cervical vertebrae in fowl is-
- (a) 17 (b) 16  
(c) 14 (d) 7

42. Visceral bone of dog is-

- (a) Os penis
- (b) Os cordis
- (c) Os opticus
- (d) Os phrenic

43. Most powerful muscles of hind limb is-

- (a) Quadriceps femoris
- (b) Quadratus femoris
- (c) Biceps femoris
- (d) Rectus abdominis

44. Lyssa is found in the tongue of-

- (a) Horse
- (b) Ox
- (c) Dog
- (d) Pig

45. Guttural pouch is found in-

- (a) Equine
- (b) Canine
- (c) Swine
- (d) Bovine

46. Which one is unpaired muscle of animal body?

- (a) Rectus femoris muscle
- (b) Brachialis muscles
- (c) Biceps brachai muscle
- (d) Diaphragm

47. Heart is supplied by-

- (a) Coronary artery
- (b) Subclavian artery
- (c) Brachial artery
- (d) Ascending aorta

48. Suitable site for intravenous injection in pigs is-

- (a) External Jugular vein
- (b) Saphanous vein
- (c) Cephalic vein
- (d) Ear vein

49. Largest peripheral nerve of animal body is-

- (a) Radial Nerve
- (b) Schiatic nerve
- (c) Femoral Nerve
- (d) Obturator Nerve

50. Vermiform appendages are present in the penile part of-

- (a) Cat
- (b) Bull
- (c) Ram
- (d) Stallion

**SECTION - B (Conventional Type) (100 Marks)**

*This Section should be answered only on the Answer Sheet provided.*

*Marks for each question is indicated against it.*

*Attempt all questions.*

1. Write short notes (Any four): **(4×5=20)**
  - (a) Eclampsia in bitch
  - (b) Hypothyroidism in dog
  - (c) Lumpy Skin Diseases in cattle
  - (d) African Swine Fever
  - (e) Legal duties of Veterinarian
2. What is placenta? Write about the classification of placenta with suitable example. **(2+8=10)**
3. How breeding soundness of a bull is tested? **(5)**
4. What is repeat breeding? Describe the treatment of repeat breeding. **(2+8=10)**
5. What are the properties of an ideal General Anaesthetic? **(10)**
6. What is cancer chemotherapy? Write the adverse effects of cancer chemotherapy. **(2+4=6)**
7. What is hernia? Describe about the classification of hernia with suitable example. **(10)**
8. Write about the different routes of drug administration with their advantages and disadvantages. **(8)**
9. Describe the different parts of a prescription. **(6)**
10. Name the structures involved into the formation of a diarthrodial joint. **(5)**
11. Write about the anatomy of female reproductive system of cow with suitable example. **(10)**

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