

MIZORAM PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATIONS FOR RECRUITMENT TO THE POST OF JUNIOR GRADE OF MAH & VS I.E. VETERINARY OFFICER UNDER ANIMAL HUSBANDRY AND VETERINARY DEPARTMENT. NOVEMBER, 2019

AH & VETY PAPER - III

Time Allowed : 2 hours

Full Marks : 200

All questions carry equal marks of 2 each.

Attempt all questions.

1. The study of biological structure of a particular species of animal.
 - (a) Systemic anatomy
 - (b) Special anatomy
 - (c) Comparative anatomy
 - (d) Regional anatomy
2. The cells responsible for resorption of bone salts is
 - (a) Osteocyte
 - (b) Osteoclast
 - (c) Osteoblast
 - (d) All of these
3. The total number of bone in case of ox is
 - (a) 208
 - (b) 218
 - (c) 201
 - (d) 205
4. Bones are covered by a membrane called _____ except at the articular surface.
 - (a) Periosteum
 - (b) Endosteum
 - (c) Both (a) and (b)
 - (d) None of these
5. Guttural pouch are found in
 - (a) Canine
 - (b) Bovine
 - (c) Equine
 - (d) Caprine
6. A small projection on the bone is called _____.
 - (a) Spine
 - (b) Hamulus
 - (c) Tubercle
 - (d) Tuberosity
7. Floating ribs are found in _____.
 - (a) Pig
 - (b) Horse
 - (c) Cow
 - (d) Dog
8. Spindle shaped muscle fiber are present in
 - (a) Skeletal muscle
 - (b) Smooth muscle
 - (c) Cardiac muscle
 - (d) All of these
9. Which brain cell is phagocytic in nature
 - (a) Microglia
 - (b) Amphicyte
 - (c) Astrocyte
 - (d) All of these

10. Each bundle of the muscle fibers is covered by a layer of connective tissue called _____
- (a) Endomysium (b) Perimysium
(c) Epimysium (d) None of these
11. Which muscle is voluntary in nature?
- (a) Skeletal muscles (b) Smooth muscles
(c) Cardiac muscles (d) All of these
12. Mammary gland is a
- (a) Modified Sweat gland (b) Mixed gland
(c) Modified Sebaceous gland (d) All of these
13. The 3rd cranial nerve is
- (a) Olfactory (b) Oculomotor
(c) Optic (d) Trochlear
14. The largest paranasal sinus is
- (a) Maxillary sinuses (b) Ethmoid sinuses
(c) Frontal sinuses (d) Sphenoid sinuses
15. Superficial Gluteus muscle is absent in _____.
- (a) Horse (b) Ox
(c) Dog (d) Sheep
16. After cleavage of dividing cells, _____ developed into three layers of cell known as germ layers which ultimately developed into tissue and organs.
- (a) Morula (b) Blastula
(c) Gastrula (d) All of these
17. Which one is called the true stomach among the four compartments of the ruminant stomach.
- (a) Rumen (b) Reticulum
(c) Omasum (d) Abomasum
18. Sublingual gland is single in _____.
- (a) Cow (b) Dog
(c) Horse (d) Goat
19. Gall bladder is absent in _____.
- (a) Horse (b) Dog
(c) Cow (d) Goat
20. In which layer of the skin are the sensory nerve endings found?
- (a) Hypodermis (b) Epidermis
(c) Dermis (d) Subcutis
21. In poultry true stomach is :-
- (a) Gizzard (b) Proventriculus
(c) Crop (d) Abomasum
22. Amputation of horn can be done under
- (a) Cornual nerve block (b) Caudal epidural
(c) Anterior epidural (d) Retrobulbar nerve block

23. Abscess should be open by Syme's abscess knife at
(a) Lateral part (b) Place of pointing
(c) Medial part (d) All of these
24. Cauterization of vessels by mono-polar and bipolar coagulation is called
(a) Tourniquet (b) Ligation
(c) Diathermy (d) All of these
25. Surgical operation for providing drainage from middle ear is known as _____.
(a) Zepps' operation (b) Bulla osteotomy
(c) Hyovertebrotomy (d) Ventriculectomy
26. Wound which does not heal is known as _____.
(a) Maggot wound (b) Ulcer
(c) Infected wound (d) Contaminated wound
27. Last stage of wound healing is _____.
(a) Wound contraction (b) Epithelization
(c) Fibroplasia (d) Vasodilatation
28. In dog the commonest site of urinary obstruction is
(a) Behind the os-penis (b) Ischial arch
(c) Before the os-penis (d) All of these
29. Green stick fracture is often seen in
(a) Aged animal (b) Adult animal
(c) Young animal (d) No age discrimination
30. An intramedullary pinning technique in which multiple small diameter pins are placed down the medullary cavity rather than single large pin is called
(a) Multiple pinning (b) Transfixation pinning
(c) Stack pinning (d) Micro pinning
31. Perineal hernia is predominantly seen in
(a) Old un-castrated male dog (b) Old spayed female dog
(c) Bitch (d) All of these
32. During cystorrhaphy, the wound should be suture by
(a) Cushing followed by Lembert (b) Cushing by simple interrupted
(c) Lembert followed by Cushing (d) Lembert by simple interrupted
33. The best treatment of fistula is _____.
(a) Antibiotics (b) Antibiotics and corticosteroids
(c) Surgical removal (d) Counter irritants
34. The site of incision of thoracocentesis is
(a) 3-5th rib (b) 5-7th rib
(c) 8th rib (d) 8-9th rib
35. The radiographic diagnosis of intestinal obstruction is done by using _____.
(a) Barium sulphate (b) Conray -420
(c) Urographin (d) Ipamidol

36. The best treatment of long bone fracture is _____.
- (a) POP bandages (b) Intramedullary pinning
(c) Intramedullary nailing (d) Bone plating
37. Suturing of lacerated nostril is performed under _____ nerve block.
- (a) Infra-orbital (b) Retro bulbar
(c) Mandibular (d) Supra-orbital
38. Fluid appears as _____ in X-ray film.
- (a) White (b) Black
(c) Shades of Gray (d) Almost white
39. The best anaesthetic technique for laparotomy in cattle is
- (a) Local infiltration (b) Paravertebral
(c) Field block (d) Anterior caudal epidural
40. The presence of casts in the urine is called as _____.
- (a) Crystalluria (b) Pyuria
(c) Cylindruria (d) Ketonuria
41. Multiple myeloma is a tumor of _____.
- (a) Neutrophils (b) Eosinophils
(c) Plasma cells (d) Lymphocytes
42. The surgical correction of teat pea in cattle is performed by _____.
- (a) Teat slitter (b) Hudson teat spider
(c) Teat tumour extractor (d) Teat dilator
43. According to The World Organisation for Animal Health (OIE) _____ has become the latest (as of 15th August, 2019) country to have a confirmed incidence of African Swine Fever in Asian region.
- (a) China (b) Myanmar
(c) Laos (d) Vietnam
44. Hepatic Coccidiosis in rabbits is caused by _____.
- (a) *Eimeria zuernii* (b) *Eimeria tenella*
(c) *Eimeria magna* (d) *Eimeria stiedae*
45. The presence of blood in sputum is known as _____.
- (a) Hematemesis (b) Hemoptysis
(c) Epistaxis (d) Hematoma
46. Diseases which are acquired during intrauterine life of an individual.
- (a) Hereditary disease (b) Congenital disease
(c) Acquired disease (d) None of these
47. Skin lesions with slightly raised diamond-shaped red spots in pig are the characteristics of _____.
- (a) Swine fever (b) African Swine fever
(c) Swine Erysipelas (d) Swine flu
48. Duration of the disease is short and it last for few hours to 48 hours
- (a) Acute disease (b) Per- acute disease
(c) Sub- acute disease (d) Chronic disease

49. Diseases which affects a large population of animals in large areas.
- (a) Sporadic disease (b) Enzootic disease
(c) Epizootic disease (d) Endemic disease
50. Malignant oedema is cause by_____
- (a) *Clostridium septicum* (b) *Clostridium botulinum*
(c) *Clostridium perfringens* (d) None of these
51. Colic occurs due to irritation of the gastro-intestinal mucosa with a violent irregular peristaltic movement frequently observed in nervous temperament group of horse
- (a) Tympanic colic (b) Spasmodic colic
(c) Impactive colic (d) Extra- luminal colic
52. Greasy (Steatorrhoea) consistency of faeces is commonly observed in _____
- (a) Pre hepatic Jaundice (b) Hepatic jaundice
(c) Post hepatic jaundice (d) None of these
53. A chronic condition in which the pancreas produce little or no insulin.
- (a) Type I diabetes (b) Type II diabetes
(c) Pre diabetes (d) Gestational diabetes
54. Froathy bloat is found in _____
- (a) Primary Tympany (b) Secondary Tympany
(c) Both (a) and (b) (d) None of these
55. Excessive destruction of erythrocytes is characteristic of:
- (a) Thalassemia (b) Aplastic anemia
(c) Pernicious anemia (d) Hemolytic anemia
56. Turkey Egg Kidney is seen in _____.
- (a) Swine Pox (b) Swine Influenza
(c) Swine Fever (d) Swine Erysipelas
57. Anthrax is also called as _____.
- (a) Splenic fever (b) Desert fever
(c) Undulant fever (d) All of these
58. Scrapie is a _____
- (a) Progressive fatal disease of CNS (b) Disease of young animals
(c) The causal agent is antigenic (d) All of these
59. Enlargement of Bursa of fabricius in poultry is seen in _____.
- (a) CRD (b) IB
(c) RD (d) IBD
60. Presence of Glucose in urine can be detected by _____ test.
- (a) Robert's test (b) Benedict's test
(c) Rothera's test (d) Gmelin's test
61. Enlargement of Sciatic nerve is seen in _____.
- (a) Ranikhet disease (b) Marek's disease
(c) Chronic respiratory disease (d) Infectious Coryza

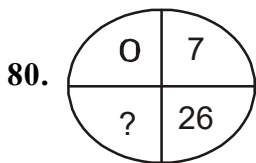
62. Mn deficiency in chicken will lead to _____.
- (a) Pica (b) Star grazing condition
(c) Crazy chick disease (d) Slipped Tendon
63. The long half life of PMSG is due to _____
- (a) Glycoproteins (c) Sialic acid
(b) Prolactin (d) Foetal origin
64. Most of the developmental anomalies occur during
- (a) Period of embryo (b) Period of ovum
(c) Period of fetus (d) During birth
65. Animal showing external evidence of pro-oestrus with vulval oedema, hyperemia & sanguinous vulval discharge is _____.
- (a) Cattle (b) Bitch
(c) Doe (d) Ewe and Mare
66. Prolonged dystocia leads to fatigue of the uterine muscle and produce contraction or retraction rings called as
- (a) Bandl's ring (b) Robert's ring
(c) Schaafer's ring (d) Uterine ring
67. Cesarean section is more difficult to perform in which species in comparison to other domestic animals
- (a) Sow (b) Bitch
(c) Mare (d) Ewe
68. Mammary gland duct system growth is under the influence of _____.
- (a) Estrogen (b) Progesterone
(c) Prolactin (d) Prostaglandins
69. Semen freezes at _____ °C temperature.
- (a) - 0.22 (b) - 0.33
(c) - 0.44 (d) - 0.55
70. Repulsion may be accomplished by the operator's arm, the arm of an assistant or by a
- (a) Fetotome (b) Obstetrical chain
(c) Ropes (d) Crutch repeller
71. Severe bleeding from the uterus of large animals may be controlled by
- (a) Prolactin (b) Oxytocin
(c) Progesterone (d) Gonadotropin
72. Maternal Recognition of Pregnancy (M.R.P) is responsible for
- (a) Fetal growth (b) Implantation
(c) Maternal circulation (d) Fertilization
73. In the testes, testosterone secreting cells are _____.
- (a) Germinal epithelium (b) Leydig cells
(c) Sertoli cells (d) Blood testes barrier

74. Predominate Ig in follicular fluid is _____
(a) Ig A (b) Ig M
(c) Ig G (d) Ig E
75. Follicular development is _____ in ovary containing Corpus Luteum.
(a) Enhanced (b) Supressed
(c) Both (a) and (b) (d) None of these

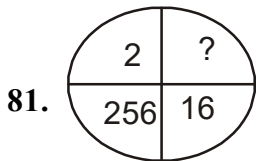
Directions (Questions 76-79): Find the missing number from the series:

76. 64, 71, 80, ...?..., 104, 119
(a) 82 (b) 89
(c) 91 (d) 101
77. 1, 6, ...?..., 22, 33, 46
(a) 9 (b) 13
(c) 16 (d) 20
78. 2, 5, 9, 14, 20, ...?...
(a) 24 (b) 26
(c) 27 (d) 34
79. 3, 5, 9, 17, 33, ...?..., 129
(a) 65 (b) 73
(c) 95 (d) 109

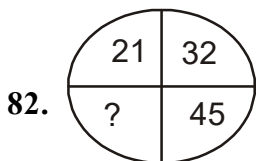
Directions (Questions 80-83): Find the missing character from the given alternatives:



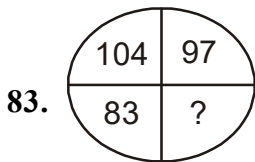
- (a) 45 (b) 50
(c) 60 (d) 63



- (a) 4 (b) 8
(c) 12 (d) 14



- (a) 52 (b) 58
(c) 60 (d) 62



- (a) 80 (b) 85
(c) 87 (d) 90

Direction (Question 84 - 87): Read the following passages carefully and choose the best answer to each of the questions out of the four alternatives:

The history of the concept of personal authenticity can be traced back to ancient Greek philosophy as revealed in injunctions such as “Know thyself” and “To thine own self be true.” However, there is no single, coherent body of literature on authentic-self behavior, no bedrock of knowledge. Rather, there are unconnected islands that address different aspects of authenticity in rather piecemeal fashion, including historical analyses, clinical treatments, social-psychological perspectives, and developmental formulations.

Before exploring these islands of insight, it is important to define the construct of authenticity. In so doing, it can best be put in bold relief by considering its opposite, namely, lack of authenticity or false-self behavior. Consistent with the impetus for this volume, it should be noted that far more attention has been devoted to the *lack* of authentic-self behavior, within the clinical, social-psychological, and developmental literatures, where theorists and investigators have examined deceit of others, secrecy, imposter tendencies, self-monitoring, compliance, and self-deception. From a less scientific perspective, one can observe the vast vocabulary in the English language to describe deceit (Lerner, 1993), suggesting its salience in our collective psyche. Verb forms make reference to fabricating, withholding, concealing, distorting, falsifying, pulling the wool over someone’s eyes, posturing, charading, faking, and hiding behind a facade. Adjectives include elusive, evasive, wily, phony, artificial, two-faced, manipulative, calculating, pretentious, crafty, conniving, duplicitous, deceitful, and dishonest. Noun forms include hypocrite, charlatan, chameleon, impostor, phony, fake, and fraud.

84. “To thine own self be true” has the same meaning as
(a) Be true and honest to oneself (b) Be true to others
(c) Be aware of oneself (d) Honesty is the best policy
85. “Bedrock” has the same meaning as
(a) solid (b) bed
(c) basis (d) tough
86. Noun forms for ‘Deceit’ include
(a) artificial (b) phony
(c) faking (d) charlatan
87. The antonym for ‘Compliance’ is
(a) acquiescence (b) disobedience
(c) complain (d) agreement

Directions (Questions 88-90): Read the following passages carefully and choose the best answer to each of the questions out of the four alternatives:

At an abstract level, toughness is about the harmony between physiological systems and ultimately, about the correspondences of physiological systems with psychological ones. The anthropologist Gregory Bateson (1979) observed that when a changed environment forces an organ system to adapt so much that the system nears the limits of its genetic potential, not only is that system strained, but other organ systems with which that system interacts are similarly strained. As an example of cascading negative impacts, consider the downstream impacts of a lifetime of smoking on reducing respiratory efficiency. By leading to reduced physical activity, respiratory insufficiency may ultimately lead to muscular weakness, and then to a higher ratio of fat to lean tissues. Those changes may in turn lead to bone decalcification and perhaps to insulin insensitivity, sugar intolerance, circulatory breakdown, infection, and so on. Based on Bateson's observations, we suggest several principles that underlie toughness theory. The first is that all major physiological systems within an organism interact, so that the state of one system (e.g., the major muscles) will influence most others (e.g., the endocrine and neural systems). The second is that in order to maintain general health, physical systems should be stimulated and used in ways that maintain them near the midpoints of their genetically determined operating potentials. The third principle follows from the first two—similar to most systems, for best results the body must be exposed to environments it was designed to experience, and in general ways the organism must behave in ways that correspond with the ways it was designed to behave.

88. Which of the following is not an impact of smoking according to the passage?
(a) higher ratio of fat to lean tissues (b) muscular weakness
(c) weaker bone density (d) reduced physical activity
89. "Cascade" has the same meaning as
(a) flow (b) crash
(c) cage (d) important
90. The antonym for 'Exposed' is
(a) visible (b) invulnerable
(c) open (d) susceptible

Directions (Questions 91-95): Given below are problem figures. Choose the best alternative among the answer figures:

91.

Q	XQ	QX	XQX	XXQ
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QX	XQXX	XXQXX	QXX
(a)	(b)	(c)	(d)

92.

M #	@ \$	@ #	M \$	@ #	\$ M	@ M	\$ #	M @	\$ #
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M @	# \$	\$ @	M #	\$ #	M @	# \$	@ M
(a)	(b)	(c)	(d)				

93.

A & C	@ C \$	(@)	= (+	# + X
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& + *	& # *	& * X	& X *
(a)	(b)	(c)	(d)

94.

A# \$*	\$* A#	* A # \$	# \$ * A	\$* A #
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* A # \$	A # * \$	A # \$ *	* A # \$
(a)	(b)	(c)	(d)

95.

A Z	A Z	Z A	Z A	Z A
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Z A	A Z	A Z	Z A
(a)	(b)	(c)	(d)

