



# E-Booklet

## PREPARATORY PAPER FOR

### VETERINARY ASSISTANT SURGEON RECRUITMENT TEST 2022

**TO BE HELD BY**  
**J&K PUBLIC SERVICE COMMISSION**

#### **COMPILED & EDITED BY:**

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#### **ACKNOWLEDGEMENT:**

*We sincerely thank all Veterinary & Animal Science scientists from SKUAST Kashmir who contributed in successful conduct of Crash Course for ICAR – AIEEA (PG) 2022, and contributed questions for this preparatory test also. List attached as an acknowledgement to all*

Special thanks to **Prof Nazir A Ganai**, Vice-Chancellor, SKUAST-Kashmir & **Prof Haroon R Naik**, Director Planning & Monitoring for their support & guidance

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DR HINNA HAMDANI	DR ANEES A SHAH	DR MOHSIN AYOUB	DR SHEIKH TOWSEEF
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- Q. No. 1:** The area of burial of livestock if located in an agricultural field should not be ploughed for:
- a) 01 month
  - b) **06 months**
  - c) 12 months
  - d) 24 months
- Q. No. 2:** Which of the following Indian goat breed has typical bilateral white strips from nostrils to ears?
- a) Jhakrana
  - b) Attapady
  - c) **Konkan Kanyal**
  - d) Sumi-Ne
- Q. No. 3:** Which of the following goat breed has a tuft of hair on the buttock region and also bears a roman nose?
- a) Barbari
  - b) Beetal
  - c) **Jamunapari**
  - d) Black Bengal
- Q. No. 4:** Exogenous fibre-degrading enzyme used in livestock feed industry are generally produced from:
- a) *Trichoderma longibrachiatum*
  - b) *Aspergillus niger*
  - c) *A. oryzae*
  - d) **All of the above**
- Q. No. 5:** Which of the following is an anti-nutritional factor in Brassica napus?
- a) Hirudin
  - b) **Erucic acid & glucosinolates**
  - c) Amygdalin
  - d) Cyanophycean granules
- Q. No. 6:** Alkaloid in legume which predisposes ruminants to bloat:
- a) **Saponin**
  - b) Tanin
  - c) Indospicin
  - d) Mimosine



**Q. No. 7:      Statements:**

- I.      *Cattle represent the major livestock species in India*
- II.     *Australia is the largest wool producer in world*
- III.    *West Bengal has highest number of cattle heads in India*
- IV.    *India ranks 2nd in world poultry population*

In light of the above statements, choose the correct answer from the options given below:

- a)      I & III are true
- b)      II & III are true
- c)      **I, II & III are true**
- d)      II, III & IV are true

**Q. No. 8:      Given below are two statements, one is labelled as ASSERTION (A) and the other is labelled as REASON (R)**

**(A):**      U.P has highest milk production but not highest per capita milk availability

**(R):**      U.P has more bovine as well as human population

In light of the above statements, choose the correct answer from the options given below:

- a)      **Both A & R are TRUE, and R is the correct explanation of A**
- b)      Both A & R are TRUE, but R is NOT the correct explanation of A
- c)      A is TRUE but R is FALSE
- d)      A is FALSE but R is TRUE

**Q. No. 9:      Statements:**

- I.      *Mithun population showed highest growth rate over the previous census*
- II.     *U.P has highest cattle population in India*
- III.    *Southern India has witnessed maximum growth in sheep population over the previous census*
- IV.    *Tamil Nadu presently has highest poultry population in India*

In light of the above statements, choose the correct answer from the options given below:

- a)      I & III are true
- b)      II & III are true
- c)      II, III & IV are true
- d)      **I, III & IV are true**

**Q. No. 10** Which of the following is most important in reducing the digestibility of paddy straw?

- a) Lignin
- b) **Silica**
- c) Hemi-cellulose
- d) Oxalate

**Q. No. 11: Statements:**

- I. *Lower pitch is suitable for building with large span*
- II. *Higher pitched roofs shed snow and water better*
- III. *Lower pitched roofs allow better air space in cattle sheds*
- IV. *A roof with a pitch of 3:12- 4:12 is generally recommended for cattle sheds*

In light of the above statements, choose the correct answer from the options given below:

- a) I & II are true
- b) I, II & III are true
- c) **I, II & IV are true**
- d) II, III & IV are true

**Q. No. 12:** Eating sweet clover causes fatal hemorrhagic condition in cattle because of the presence of:

- a) Dhurrin
- b) Mimosine
- c) Indospicine
- d) **Dicumarol**

**Q. No. 13:** The dye is usually absorbed by .....portion of animal fibers:

- a) Cuticle
- b) **Cortex**
- c) Medulla
- d) All of the above

**Q. No. 14:** The burr is removed from the animal fibers by a process called:

- a) Scouring
- b) **Carbonization**
- c) Carrotting
- d) Felting

**Q. No. 15: One livestock unit is:**

- a) **1 bovine/2 pigs/3 calves/5 sheep**
- b) 2 bovine/3 pigs/3 calves/5 sheep
- c) 1 bovine/3 pigs/3 calves/10 sheep
- d) 5 bovine/10 pigs/15 calves/20 sheep

**Q. No. 16: Giblet includes:**

- a) **Heart, liver, gizzard**
- b) Gizzard , spleen, neck
- c) Liver , crop, kidney
- d) Heart, liver, spleen, crop, neck

**Q. No. 17: Intensity of light required at the workplaces of abattoir:**

- a) 110 lux
- b) **220 lux**
- c) 540 lux
- d) None of the above

**Q. No. 18: Which is TRUE regarding the daily water requirement for slaughtering of animals?**

- a) 272 Liters/cattle
- b) 45 Liters/sheep
- c) 454 Liters/pig
- d) **All of the above**

**Q. No. 19: The skin of a unborn calf is called:**

- a) Kip
- b) Murrain hide
- c) **Slunk**
- d) All of the above

**Q. No. 20: Meat borne hazard that is classified into severe hazard:**

- a) *Salmonella Typhimurium*
- b) *Clostridium perfringens*
- c) ***Clostridium botulinum***
- d) *Yersinia enterocolitica*

**Q. No. 21: Meat from an exhausted animal will have:**

- a) Abnormal colour
- b) Low shelf life
- c) Abnormal texture
- d) **All of the above**

**Q. No. 22:** The pink or reddish fluid that oozes out from meat on thawing is known as:

- a) Drip
- b) Bleeding
- c) Leakage
- d) **Both (a)& (b)**

**Q. No. 23:** Group of owls is called as:

- a) Colony
- b) **Parliament**
- c) Confusion
- d) Descent

**Q. No. 24:** Statements

- I. *Curing and smoking are generally done together to get synergistic effect*
- II. *Phenols are bactericidal and formaldehyde is bacteriostatic*
- III. *Processing of meat for product preparation is best done during rigor mortis*
- IV. *Calpains are calcium-dependent enzymes*

**In light of the above statements, choose the correct answer from the options given below:**

- a) I, II & III are wrong
- b) I & III are wrong
- c) **II & III are wrong**
- d) II, III & IV are wrong

**Q. No. 25:** Which of the following programme is also known as National Rural Livelihoods Mission (NRLM)?

- a) **Deendayal Antyodaya Yojana**
- b) Swarna Jayanti Gram Swarozgar Yojana
- c) Prime Minister Rozgar Yojana
- d) Rural Employment Guarantee Program

**Q. No. 26:** Scientific name of double humped camel is:

- a) *Camelus dromedaries*
- b) *Camelus carabensis*
- c) *Camelus indicus*
- d) ***Camelus bactrianus***

- Q. No. 27: Which of the following have the same chromosome number?**
- a) Sheep and goat
  - b) Swamp buffalo and water buffalo
  - c) **Dog and chicken**
  - d) Yak and mithun
- Q. No. 28: A cross between Holstein Friesian and Tharparkar is known as:**
- a) Jamaica Hope
  - b) Frieswal
  - c) Taylor
  - d) **Karan Fries**
- Q. No. 29: The practice of feeding female animals especially well, just prior to breeding season in order to stimulate their reproductive organs to the maximum activity is known as:**
- a) Challenge feeding
  - b) Over feeding
  - c) **Flushing**
  - d) Pre-feeding
- Q. No. 30: Best layer bird in the world is:**
- a) Minorca
  - b) Cochin
  - c) **Leghorn**
  - d) Cornish
- Q. No. 31: Walnut type comb is present in:**
- a) Rhode Island Red
  - b) Orpington
  - c) **Wyandotte**
  - d) Plymouth rock
- Q. No. 32: National Bank for Agriculture and Rural Development (NABARD) was established on?**
- a) **12 July, 1982**
  - b) 9 July, 1988
  - c) 12 April, 1992
  - d) 4 September, 1999

**Q. No. 33: Father of the Green Revolution who received Nobel Peace Prize in 1970:**

- a) MS Swaminathan
- b) **NormanE Borlaug**
- c) Daniel Benor
- d) William Gaud

**Q. No. 34: The yellow colour in milk can be due tocontamination by:**

- a) *Pseudomonas syncyaneum*
- b) *Pseudomonas putrefaciens*& *P. fluorescence*
- c) *Serratia marcescens*& *Micrococcus roseus*
- d) ***Pseudomonas synxantha*& *flavobacterium***

**Q. No. 35: For proper microbiological sanitationthe chlorine solution used in dairy-cleaning operations should contain between ----- available chlorine:**

- a) Upto 50 ppm
- b) **50- 300 ppm**
- c) 300 - 500 ppm
- d) 500 – 750 ppm

**Q. No. 36: Association of Racing Commissioners International (RCI) has categorized doping drugs into5 classes (Class1– 5) depending upon their therapeutic use that is acceptable to the racing industry and their influence on performance:**

A	Class 1 Drugs	I	Opioids/Amphetamines
B	Class 2 Drugs	II	Ranitidine
C	Class 4 Drugs	III	Caffeine
D	Class 5 Drugs	IV	Phenylbutazone

Choose the correct answer from the options given below:

- a) **A-I,B- III,C- IV,D- II**
- b) A-II, B-IV, C-III, D-I
- c) A-I, B-II, C-IV, D-III
- d) A-II, B-IV, C-I, D-III

**Q. No. 37: Minimum recommended concentration of free chlorine in chlorinated water:**

- a) 0.005 mg/L
- b) 0.05 mg/L
- c) **0.5 mg/L**
- d) 1.0 mg/L

- Q. No. 38:** The daily per capita availability of milk in India for the year 2020-21 as per the Economic Survey 2020-21 is:
- a) 185 grams
  - b) 235 grams
  - c) 345 grams
  - d) **427 grams**
- Q. No. 39:** According to BIS, raw milk graded as very good should have total viable count:
- a) **less than 1 lac/ml**
  - b) 2 - 5 lac/ml
  - c) 5 - 10 lac/ml
  - d) > 10 lac/ml
- Q. No. 40:** The temperature- time combination for HTST pasteurization is:
- a) 72 °C for 30 minutes
  - b) **72°C for 15 seconds**
  - c) 63 °C for 30 minutes
  - d) 63 °C for 15 seconds
- Q. No. 41:** Ropiness in milk is caused by:
- a) *Alcaligenes viscolactis*
  - b) *Serratia marcescens*
  - c) *Pseudomonas syncyaneaum*
  - d) *Pseudomonas synxantha*
- Q. No. 42:** In India, Census (human population) is generally conducted after every 10 years while as Livestock Census is conducted after every----- years:
- a) Two
  - b) **Five**
  - c) Ten
  - d) Fifteen
- Q. No. 43:** ICAR- National Research Centre on Equines, Hisar Haryana, in collaboration with ICAR- Indian Veterinary Research Institute, Izatnagar Uttar Pradesh has developed a homologous live attenuated vaccine for Lumpy Skin Disease with the name:
- a) **Lumpi- ProVac Ind**
  - b) LSD Vac Ind
  - c) Lumpi - BoviVac Ind
  - d) LSD BoviVac Ind

- Q. No. 44: Genetic improvement in well defined buffalo breeds is done by:**
- e) Criss crossing
  - f) Cross breeding
  - g) Out crossing
  - h) Selective breeding**
- Q. No. 45: The first cloned sheep 'Dolly' was created through which of these techniques?**
- a) Nuclear transfer
  - b) Gene transfer
  - c) Germinal cell transfer
  - d) Somatic cell transfer**
- Q. No. 46: Urea concentration as a source of NPN in the diet of ruminants shouldn't exceed by:**
- a) 0.5 % of dry matter
  - b) 1.0 % of dry matter
  - c) 3.0% of dry matter**
  - d) 4.0 % of dry matter
- Q. No. 47: Which of the following anti-vitamin substance is present in sweet clover?**
- a) Anti-vitamin A
  - b) Anti-vitamin D
  - c) Anti-vitamin E
  - d) Anti-vitamin K**
- Q. No. 48: When is National Milk Day celebrated in India?**
- a) June 26
  - b) July 26
  - c) September 26
  - d) November 26**
- Q. No. 49: Permissible limit for major sperm abnormalities in a semen sample is:**
- a) 10 %
  - b) 15%**
  - c) 20 %
  - d) 30 %



**Q. No. 50: Given below are two statements:**

Statement 1: **Potato soup colored discharge in cattle is seen in *Trichomonas* infection**

Statement 2: **Polymelia in cattle is caused by *Trichomonas* infection**

In light of the above statements, choose the correct answer from the options given below:

- a) Both statements (1 & 2) are TRUE
- b) Both statements (1 & 2) are FALSE
- c) **Statement1 is TRUE but statement2 is FALSE**
- d) Statement 1 is FALSE but statement 2 is TRUE

**Q. No. 51: From the following statements which is/are TRUE regarding Rabies in animals and man?**

- I. *HRIG can be given up to day 7*
- II. *Rabies vaccine should be given in gluteals*
- III. *Presence of Negri bodies is 100% diagnostic*
- IV. *Exposure to bats is Category III (severe) exposure*

- a) I only
- b) II and III only
- c) **I, III and IV only**
- d) II, III and IV only

**Q. No. 52: Which of the following represents the true sequence of evolution of lesions in Contagious Ecthyma?**

- a) **Macule, papule, vesicle, pustule, scab**
- b) Papule, macule, vesicle, pustule, scab
- c) Macule, papule, pustule, vesicle, scab
- d) Vesicle, macule, pustule, papule, scab

**Q. No. 53: The most favorable time at which super-ovulatory treatment can be initiated in cows (considering day 0 as estrus):**

- a) Days 3 - 7
- b) **Days 9 - 13**
- c) Days 14 - 16
- d) Days 17 - 19

**Q. No. 54:** Given below are two statements, ones labelled as ASSERTION (A) and the other is labelled as REASON (R)

**(A):** Site of trocharisation in tympany in cattle is left flank

**(R):** Rumen is situated in the left half of abdominal cavity, and extends from pelvic brim caudally to the 7<sup>th</sup>/8<sup>th</sup> rib cranially behind the diaphragm

In light of the above statements, choose the correct answer from the options given below:

- a. Both A & R are TRUE, and R is the correct explanation of A
- b. Both A & R are TRUE, but R is NOT the correct explanation of A
- c. A is TRUE but R is FALSE
- d. A is FALSE but R is TRUE

**Q. No. 55:** Critical temperature range through which sperm must get through very quickly during freezing for maximum survival:

- a. - 10 °C to - 25 °C
- b. - 40 °C to - 50 °C
- c. - 70 °C to - 80 °C
- d. - 150 °C to - 160 °C

**Q. No. 56:** Bovine genital campylobacteriosis is characterized by:

- a) Early embryonic death
- b) Infertility
- c) Occasional abortions
- d) All of these

**Q. No. 57:** The nematode parasite which is known as "false whipworm":

- a) *Trichuris ovis*
- b) *Trichuris vulpis*
- c) ***Oxyuris equi***
- d) *Trichinella spiralis*

**Q. No. 58:** Identify the correct statement:

- a) Fresh semen requires longer capacitation period than frozen semen
- b) Frozen semen requires longer capacitation period than fresh semen
- c) Both types of semen requires 6 hrs for capacitation
- d) Capacitation is devoid of changes induced by freezing

**Q. No. 59: Identify the disease of chicken& turkey (adult/growers) from the following signs/lesions:**

**Respiratory distress, watery to mucoid yellow diarrhea and swollen friable liver with surface having a characteristic coppery bronze sheen**

- a. Pullorum disease
- b. Fowl typhoid**
- c. Paratyphoid Infection
- d. All of These

**Q. No. 60: Fat percent in double toned milk is:**

- a) Zero %
- b) 1.5%**
- c) 2.0 %
- d) 3.5 %

**Q. No. 61: The most important requirement of a vaccine is:**

- a) Safety**
- b) Ability to stimulate antibody production
- c) Ability to stimulate an immune response
- d) The proportion of infections prevented

**Q. No. 62: Sentinel surveillance targets:**

- a) The entire population
- b) Most at-risk groups**
- c) The elderly
- d) Urban dwellers

**Q. No. 63: Which of the following is infectious& non-contagious disease?**

- I. Blue tongue
- II. Hemorrhagic septicemia
- III. African horse sickness
- IV. Bovine viral diarrhea

In light of the above statements, choose the correct answer from the options given below:

- a) I and IV only
- b) I and III only**
- c) I, II and III only
- d) II and IV only

**Q. No. 64: Hemorrhages in the pectoral muscles are observed in:**

- a) Fowl cholera
- b) **Infectious bursal disease**
- c) Salmonellosis
- d) None of these

**Q. No. 65: Thymus and bone marrow atrophy occurs in which immunosuppressive disease:**

- a) Avian leucosis complex
- b) Infectious bursal disease
- c) **Chicken infectious anemia**
- d) None of these

**Q. No. 66: Lancet liver fluke is the common name of:**

- a) *Fasciola hepatica*
- b) *Opisthorchis viverrini*
- c) *Clonorchis sinensis*
- d) ***Dicrocoelium dendriticum***

**Q. No. 67: The species that is considered as the amplifier host for FMD infection:**

- a) Cattle
- b) Sheep
- c) Goat
- d) **Pig**

**Q. No. 68: Diamond shaped cutaneous lesions are characteristic of:**

- a) Swine influenza
- b) **Swine erysipelas**
- c) Swine fever
- d) Porcine enzootic pneumonia

**Q. No. 69: Punched out necrotic ulcers in the abomasum is characteristic lesion of:**

- a) Trypanosomiasis
- b) Babesiosis
- c) **Theileriosis**
- d) Toxoplasmosis

- Q. No. 70: Poll evil in Horse is caused by-**
- a) *Clostridium tetani*
  - b) *Actinomyces bovis*
  - c) *Brucella abortus*
  - d) **Both (b) and (c)**
- Q. No. 71: Key clinical sign in cystic ovarian diseases in cow:**
- a) Nymphomania
  - b) **Anoestrus**
  - c) Short inter-estrous interval
  - d) Both (a) & (b)
- Q. No. 72: Primary lymphoid organs include:**
- a) Thymus and spleen
  - b) **Thymus and bone marrow**
  - c) Thymus, bone marrow and spleen
  - d) Thymus, bone marrow, spleen and lymph nodes
- Q. No. 73: Identify the order of sequence of different segments of the birds' oviduct:**
- a) **Infundibulum, Magnum, Isthmus, Uterus and Vagina**
  - b) Infundibulum, Isthmus, Magnum, Uterus and Vagina
  - c) Vagina, Uterus, Isthmus, Magnum and Infundibulum
  - d) Isthmus, Magnum, Infundibulum, Uterus and Vagina
- Q. No. 74: Vaccination is an example of:**
- a) Naturally acquired active immunity
  - b) **Artificially acquired active immunity**
  - c) Naturally acquired passive immunity
  - d) Artificially acquired passive immunity
- Q. No. 75: The order of toxicity of four major aflatoxins is:**
- a)  $B_1 > B_2 > G_1 > G_2$
  - b)  **$B_1 > G_1 > B_2 > G_2$**
  - c)  $G_1 > B_1 > G_2 > B_2$
  - d)  $G_1 > G_2 > B_1 > B_2$
- Q. No. 76: Gag reflex test is carried out to check which cranial nerve:**
- a) **Glossopharyngeal**
  - b) Oculomotor
  - c) Trochlear
  - d) Facial

**Q. No. 77: Match the following:**

A	Guttural pouch empyema	I	Hemorrhagic septicemia
B	Profuse salivation, throat swelling	II	Strangles
C	Streptococcus zooepidemicus	III	Anthrax
D	Carbozoo vaccine	IV	Navel Ill

Choose the correct answer from the options given below:

- a) A- II, B - I, C - IV, D - III
- b) A - I, B - III, C - II, D - IV
- c) A - II, B - I, C - III, D - IV
- d) A - IV, B - II, C - I, D - III

**Q. No. 78: The ideal environmental temperature for high producing dairy cows is:**

- a) 30 – 35 °C
- b) 25 – 29 °C
- c) 17 – 24 °C
- d) 5– 16 °C

**Q. No. 79: Match the following:**

A	Q. fever	I	Africal horse sickness
B	Button ulcers	II	Hog cholera
C	Wheelbarrow test	III	Zoonosis
D	Dunkop form	IV	Ovine adenocarcinoma

Choose the correct answer from the options given below:

- a) A - II, B - I, C - IV, D - III
- b) A - I, B - III, C - II, D - IV
- c) A- III, B - II, C - IV, D - I
- d) A - IV, B - II, C - I, D - III

**Q. No. 80: Which of the following test is NOT used for testing the efficacy of disinfectant?**

- a) Phenol coefficient
- b) Rideal Walker test
- c) **Epsilometer test**
- d) Chick-Martin test

**Q. No. 81: Schick test toxin is a sterile filtrate from the culture of:**

- a) *Rickettsia prowazeki*
- b) *Mycobacterium diphtheriae*
- c) ***Corynebacterium diphtheriae***
- d) *Actinobacillus mallei*

**Q. No. 82: The technique of growing plants without soil, in water or nutrient solutions is known as:**

- a) Aqua culture
- b) Geoponics
- c) Aeroponics
- d) **Hydroponics**

**Q. No. 83: The maximum period animals are allowed to walk per day during transportation:**

- a) 6 hours
- b) **8 hours**
- c) 12 hours
- d) 15 hours

**Q. No. 84: King of fodder crops is:**

- a) Lucerne
- b) Clover
- c) Oats
- d) **Berseem**

**Q. No. 85: Iron bacteria in water that clogs iron pipes:**

- a) *S. faecalis*
- b) *E. coli*
- c) *Citrobacter*
- d) ***Gallionella***

**Q. No. 86: Which of the following modifications is least likely to improve food safety?**

- a) Lowering pH of food below 4.6
- b) Packaging food
- c) Reducing moisture in food
- d) **Reducing the amount of CO<sub>2</sub> surrounding the food**

**Q. No. 87: Signs of SLUD (salivation, lacrimation, urination, defecation) are most consistent with exposure to which of the following classes of chemicals?**

- a) **Carbamates**
- b) Chlorinated hydrocarbons
- c) Metaldehyde
- d) Pyrethroids

**Q. No. 88:** The most accurate way to identify the active ingredient of a rodenticide that caused a case of poisoning (in a non-target species such as pets, wildlife, or livestock) is by which of the following?

- a) Brand and Manufacturer
- b) Clinical signs of affected animals
- c) Color and shape of the bait
- d) **EPA registration number**

**Q. No. 89:** Which of the following drugs have been banned by WADA (World Anti Doping Authority)?

- 1. Trimetazidine
- 2. Salbutamol
- 3. Higenamine

Choose the correct answer from the options given below:

- a) Only 1 & 2
- b) Only 2 & 3
- c) Only 1 & 3
- d) **1,2&3**

**Q. No. 90:** National Tiger Conservation Authority (NTCA) has partnered with which organization for relocation of cheetahs from Africa to India?

- a) **IndianOil Corporation**
- b) Bharat Petroleum Corporation
- c) Hindustan Petroleum Corporation
- d) National Thermal Power Corporation

**Q. No. 91:** What is the name of the common portal for recommendations and nominations of all official awards?

- a) Bharat portal
- b) **Rashtriya portal**
- c) Atmanirbhar portal
- d) India awards portal

**Q. No. 92:** Who has been elected as the 14th Vice-President of India?

- a) **Shri Jagdeep Dhankhar**
- b) Smt Margaret Alva
- c) Smt Droupadi Murmu
- d) Shri Yashwant Sinha



**Q. No. 93: Ministry of culture launched an initiative “India Ki Udaan” along with which company?**

- a) Microsoft
- b) **Google**
- c) Meta
- d) Amazon

**Q. No. 94: In the context of measures taken to combat COVID- 19, what is “CoNTeC” that was making news recently?**

- a) Portal to buy medicines
- b) Database of hospitals
- c) **Telemedicine Hub**
- d) None of the above

**Q. No. 95: Which city will play host to the 2022 Commonwealth Games?**

- a) London
- b) Gold Coast
- c) **Birmingham**
- d) New Delhi

**Q. No. 96: Doping of Race Horses includes:**

1. *Use of drugs to enhance performance, to win*
2. *Use of drugs to impair ability, to lose*
3. *Use of drugs to hide the use of other drugs*

Choose the correct answer from the options given below:

- a) Only 1 & 3 are TRUE
- b) Only 2 is True
- c) Only 2 & 3 are TRUE
- d) **All statements are TRUE**

**Q. No. 97: Which Indian state announced that it would be the first to implement the National Educational Policy (NEP)- 2020?**

- a) Madhya Pradesh
- b) Gujarat
- c) Uttar Pradesh
- d) **Karnataka**

**Q. No. 98:** Foundation Day of Indian Agricultural Research is celebrated every year on \_\_\_\_\_ as ICAR was established on that Day in year \_\_\_\_\_:

- a) **July 16; 1929**
- b) July 16; 1860
- c) September 3; 1929
- d) September 3; 1860

**Q. No. 99:** Bird and Animal of the Union Territory of Jammu & Kashmir:

- a) Black Necked Crane, Hangul
- b) Kalij Pheasant, Snow Leopard
- c) **Kalij Pheasant, Hangul**
- d) Black Necked Crane, Snow Leopard

**Q. No. 100:** Total number of National Parks in erstwhile state of Jammu & Kashmir?

- a) 35
- b) 14
- c) **05**
- d) 04

**Q. No. 101:** Statements

1. *Etorphine (M99) is a semi-synthetic opioid possessing an analgesic potency approximately 1000– 3000 times that of morphine*
2. *Diprenorphine is used @ 1.3 times etorphine to reverse effects in veterinary patients*
3. *Etorphine is often used to immobilize elephants and other large mammals*
4. *Large Animal Immobilon is a combination of etorphine and diprenorphine*

In light of the above statements, choose the correct answer from the options given below:

- a) **1,2&3 are TRUE**
- b) 3 & 4 are TRUE
- c) 2 & 3 are TRUE
- d) All statements are TRUE

**Q. No. 102: What animals are considered the reservoir for InfluenzaA viruses?**

- a) Feral swine
- b) Domestic chicken & Turkeys
- c) Asian backyard poultry flocks
- d) **Waterfowl and Shorebirds**

**Q. No. 103: Match the following:**

A	Doping to Win	I	Technique for testing for drugs in race horses
B	Doping to Lose	II	Furosemide
C	Doping to Mask	III	Acepromazine
D	Liquid Chromatography – tandem mass spectrometry	IV	Phenylbutazone

Choose the correct answer from the options given below:

- a) A-III, B-II, C-IV, D-I
- b) **A-IV, B- III, C- II, D-I**
- c) A-II, B-III, C-IV, D-I
- d) A-IV, B-II, C-III, D-I

**Q. No. 104: Match the following:**

A	Prevention of Cruelty to Animals Act	I	1960
B	Prevention & Control of Infectious & Contagious diseases in Animals Act	II	2009
C	Livestock Importation (Amendment) Act	III	2001
D	Food Safety & Standards Act	IV	2006

Choose the correct answer from the options given below:

- a) A-I, B-III, C-II, D-IV
- b) A-III, B-IV, C-I, D-II
- c) A-I, B-IV, C-III, D-II
- d) **A-I, B- II, C- III, D- IV**

**Q. No. 105: Which National Park in India has set up the country's first quarantine facility for animals?**

- a) **Jim Corbett**
- b) Dachigam
- c) Kaziranga
- d) Hemis High Altitude

**Q. No. 106: Correctly matched number of Animal Quarantine & Certification Services Stations in India and the places:**

- a) Six; New Delhi, Mumbai, Kolkata, Chennai, Bangaluru, Hyderabad
- b) Four; New Delhi, Mumbai, Kolkata, Chennai
- c) Two; New Delhi, Mumbai
- d) Two; Kolkata, Chennai

**Q. No. 107: "Azidol" as the bacteriostatic preservative currently permitted to be added to milk samples for chemical, bacteriological and cytological evaluations is composed of:**

- a) Sodium Azide and Chloramphenicol
- b) Sodium Benzoate and Bronopol
- c) Potassium dichromate and Eugenol
- d) Sodium Azide and Bronopol

**Q. No. 108: Lesions associated with cyanide poisoning in animals include:**

- I. *Bright Cherry Red Venous Blood*
- II. *Dark Coloration of Skeletal Muscles*
- III. *Goitre and Cystitis Ataxia toxidromes*
- IV. *Agonal haemorrhages of the heart and frothy respiratory passages*

Choose the correct answer from the options given below:

- a) Only I and II are TRUE
- b) Only III and IV are TRUE
- c) Only I, II and IV are TRUE
- d) I, II, III and IV are TRUE

**Q. No. 109: Chemicals utilized commonly for Tranquilization and Anesthesia of fish:**

- I. *Benzocaine@ 12.5 mg/L of water as a shipping sedative; @ 25–500 mg/L for anesthesia*
- II. *Eugenol@ 30– 60 mg/L of water, excellent for short duration physical examinations*
- III. *Isoflurane@ 0.5–1 ml/L of water for anesthesia, spray the required dose under the water while mixing*
- IV. *Tricaine Methane Sulfonate@ 10– 40 mg/L for sedation; @ 50 – 400 mg/L for anesthesia induction*

Choose the correct answer from the options given below:

- a) Only I and IV are TRUE
- b) Only II and III are TRUE
- c) Only I, III and IV are TRUE
- d) I, II, III and IV are TRUE

**Q. No. 110: Statements I– IV regarding Lumpy Skin Disease (LSD) in Cattle:**

- I. *Contagious transboundary viral disease characterized by fever, firm round skin nodules, swelling of lymph nodes and sharp drop in milk yield*
- II. *Disposal of carcasses by burial, burning or rendering*
- III. *Cattle are vaccinated at least 28 days before movement where nomadic/seasonal farming practices are used*
- IV. *Cattle showing any clinical signs of LSD qualify for slaughter/human consumption; milk from affected cattle needs to be destroyed*

Choose the correct answer from the options given below:

- a) Only I and II are TRUE
- b) Only I, II and IV are TRUE
- c) **Only I, II and III are TRUE**
- d) I, II, III and IV are TRUE

**Q. No. 111: Eleven wetland sites have been recently included in the list of Ramsar Sites in India 2022, and has increased the total number of Ramsar Sites to 75. The two added to the list in 2022 from the UT of J&K include:**

- I. *Hygam Wetland Conservation Reserve*
- II. *Shallbugh Wetland Conservation Reserve*
- III. *Surinsar Mansar Lake*
- IV. *Wullar Lake*

Choose the correct answer from the options given below:

- a) **I and II**
- b) III and IV
- c) I and III
- d) II and IV

**Q. No. 112: Match the Columns (Important days with dates):**

A	World Wetlands Day	I	April 7
B	World Zoonosis Day	II	July 6
C	World Health Day	III	February 2
D	International Day of Yoga	IV	June 21

Choose the correct answer from the options given below:

- e) A - I, B - II, C - III, D - IV
- f) A - IV, B - III, C - II, D - I
- g) **A- III, B - II, C - I, D - IV**
- h) A - III, B - I, C - II, D - IV

**Q. No. 113: Match the Columns (Poison with its antidote):**

A	Acetaminophen	I	Dimercaprol
B	Cholecalciferol	II	Acetylcysteine
C	Copper	III	Pamidronate disodium
D	Arsenic	IV	D - Pencillamine

Choose the correct answer from the options given below:

- a) A - III, B - II, C - IV, D - I
- b) A - II, B - III, C - I, D - IV
- c) **A- II, B - III, C - IV, D - I**
- d) A - III, B - II, C - I, D - IV

**Q. No. 114 Match the Columns (Disease and the recommended Quarantine/Isolation period):**

A	Lumpy Skin Disease - Cattle	I	4 – 6 months
B	Rabies – Animals	II	14 days
C	COVID 19 – Humans	III	21 days
D	Avian Influenza (HPAI) – Restocking of facility	IV	28 days

Choose the correct answer from the options given below:

- a) A - III, B - I, C - II, D - IV
- b) A - II, B - III, C - IV, D - I
- c) A - I, B - IV, C - III, D - II
- d) **A- IV, B - I, C - II, D - III**

**Q. No. 115: Match the Columns (Milk adulterant and chemical used in the procedure for rapid qualitative detection):**

A	Sugar	I	Conc. HCL & Resorcinol
B	Starch	II	Hansa Test serum
C	Glucose	III	Modified Barfoed's reagent
D	Buffalo milk	IV	1 % Iodine solution

Choose the correct answer from the options given below:

- a) A - III, B - IV, C - II, D - I
- b) **A- I, B - IV, C - III, D - II**
- c) A - II, B - I, C - IV, D - III
- d) A - IV, B - III, C - II, D - I

**Q. No. 116: Water added to the milk is best detected by checking:**

- a) Acid degree value
- b) Sediment content
- c) **Freezing point**
- d) Titratable acidity

**Q. No. 117: Standardization of milk or milk product involves which of the following?**

- a) **Adjustment of fat content**
- b) Increase in nutritional content
- c) Whitish appearance
- d) Protein breakdown

**Q. No. 118: The ideal cleaning material for removing mineral deposits left by the milk (Milkstone) from milking equipment surfaces is:**

- a) Hot water
- b) Surfactant
- c) Cold water
- d) **Acid detergent**

**Q. No. 119: The ability of lipase in milk to attack milk fat and produce a rancid off flavour is enhanced by:**

- a) Feeding cows mouldy hay
- b) Poorly cleaned milking equipment
- c) **Excessive agitation of warm raw milk**
- d) Exposing milk to sunlight

**Q. No. 120: Low levels of the enzyme lactase may lead to Lactose Intolerance, the symptoms of which typically occur between 30 minutes to 2 hours after drinking milk or eating a dairy product, and includes ALL of the following symptoms except:**

- a) Diarrhea
- b) Nausea
- c) **Headache**
- d) Abdominal cramps



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