



Teachingninja.in



Latest Govt Job updates



Private Job updates



Free Mock tests available



Visit - teachingninja.in

JKPSC VAS

Previous Year Paper
25 June, 2023



DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

Booklet Serial No.

000301

Test Booklet Series

TEST BOOKLET - 2022
VETERINARY ASSISTANT SURGEON
(02)

A

Time Allowed: Two Hours

Maximum Marks: 120

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer /Response Sheet. Any omission/discrepancy will render the Response Sheet liable for rejection.
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside.
DO NOT write anything else on the Test Booklet.
4. This Test booklet contains 120 items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
5. You have to mark all your responses **ONLY** on the separate Answer /Response Sheet provided. See directions in the Response Sheet.
6. All items carry equal marks.
7. Before you proceed to mark in the Answer /Response Sheet, the response to various items in the Test Booklet, you have to fill in some particulars in the Answer /Response Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator **only the Answer /Response Sheet**. You are permitted to take away with you the Test Booklet and **Candidate's Copy of the Response Sheet**.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. While writing Centre, Subject and Roll No. on the top of the Answer Sheet/Response Sheet in appropriate boxes use **"ONLY BALL POINT PEN"**.
11. **Penalty for wrong answers:**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN THE WRITTEN TEST (OBJECTIVE TYPE QUESTIONS PAPERS).
 - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, (0.25) of the marks assigned to that question will be deducted as penalty.
 - (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above for that question.
 - (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

02(A)/2022

[P.T.O.]

1. Which of the following protein quality measures determines protein quality by measuring animal growth
 - A) Biological value
 - B) Net protein utilization
 - C) Protein efficiency ratio
 - D) Feed conversion efficiency
2. Which of the following is true with context to breeding system?
 - A) Can create new gene in population
 - B) Capable enough to introduce and sustain desirable change, without practicing selection
 - C) Both of the above
 - D) None of the above
3. Which of the following pair (Feed source: Anti nutritional factor) is not correctly matched?
 - A) Soybean: Trypsin inhibitors
 - B) Thiaminase: Raw fish
 - C) Avidin: Raw eggs
 - D) Ricin: Groundnut cake
4. A cow consumed 10 Kg hay (moisture 10%) and excreted 4 Kg faecal matter(dry matter basis) the digestibility coefficient of grass hay is
 - A) 55.6
 - B) 65.6
 - C) 58.6
 - D) 50.6
5. Effect on digestibility of fibre due to pelleting of roughages
 - A) Increases
 - B) No effect
 - C) Decreases
 - D) None of these

6. Which of the following pairs are mismatched
- A) Mixed crop farming : Intercropping and poly varietal cultivation
 - B) Mixed livestock crop farming : Enhances Global warming Potential
 - C) Nomadic/transhumant farming : Grazing based
 - D) Family farming Preserves traditional food products
7. The type-1 cattle feed prescribed by the Bureau of Indian Standard contains minimum crude protein
- A) 20 %
 - B) 21 %
 - C) 22 %
 - D) 23 %
8. The mathematical expression for Most Probable Producing ability (MPPA) for milk production calculation doesn't include
- A) Number of records
 - B) Repeatability of trait
 - C) Herd average
 - D) Age of animal
9. Frequency of two alleles in parents is 'p' and 'q'; then proportion of heterozygotes in progeny could be determined from following as per HWE
- A) $2pq$
 - B) p^2
 - C) q^2
 - D) $p+q$
10. Which of the following is not a measure of reproductive efficiency
- A) Fertility index
 - B) Wilcox method of BE
 - C) Osborne index
 - D) AI per conception
11. If the heritability of trait is 0.2 what does it mean?
- A) Trait is 20% heritable
 - B) Breeding value of individual is 80%
 - C) Additive genetic variation is 20%
 - D) Phenotypic variations 80 %

12. If the repeatability estimate in a population is 0.67 which of the following can be the heritability estimate in the same population

- A) 0.70
- B) 0.76
- C) 0.45
- D) 1.00

13. Which of the following statements are true about milk

- i. Phosphatase test is used to detect efficiency of pasteurization
- ii. Hansa test is applied to detect mixing of buffalo milk into cow milk
- iii. Lactometer can be used to detect adulteration of milk with water
- iv. Strip cup test is used to detect mastitis

Choose the correct option

- A) i, ii, iii and iv
- B) i, iii and iv
- C) iii and iv
- D) ii and iv

14. Which set of chromosomes indicate 'Klinefelter syndrome'?

- i. XO
- ii. XXX
- iii. XXY
- iv. XYY

Choose the correct option

- A) i and ii
- B) i and iii
- C) iii
- D) ii and iv

15. Match the following and choose the correct option

- | | |
|-------------------------|--------------------------|
| i) Mule | I Heterozygosity |
| ii) Genetic improvement | II Panmixia |
| iii) Crossbreeding | III Selection |
| iv) Random mating | IV Species hybridization |

- A) i-II, ii-III, iii-IV, iv-I
B) i-IV, ii-III, iii-I, iv-II
C) i-III, ii-I, iii-IV, iv-II
D) i-IV, ii-I, iii-III, iv-II

16. Consider the following pairs and choose the correct option

- | | |
|------------------------|-------------|
| i) Indian sweet clover | I Berseem |
| ii) Egyptian clover | II Lucerne |
| iii) Persian clover | III Shaftal |
| iv) Snail clover | IV Senji |

- A) i-II, ii-III, iii-IV, iv-I
B) i-IV, ii-III, iii-I, iv-II
C) i-III, ii-I, iii-IV, iv-II
D) i-IV, ii-I, iii-III, iv-II

17. Consider the following pairs

- | | |
|-----------------------|---------------------|
| i. Enzootic ataxia | I Zn deficiency |
| ii. Parakeratosis | II Mg deficiency |
| iii. Nutritional roup | III Cu deficiency |
| iv. Grass tetany | IV Vit A deficiency |

Which of the pairs given above are correctly matched?

- A) i-II, ii-IV, iii-I, iv-III
B) i-I, ii-II, iii-IV, iv-III
C) i-III, ii-I, iii-IV, iv-II
D) i-IV, ii-II, iii-I, iv-III

18. Chemical sanitizers containing _____ are most commonly used for sanitizing milking equipment

- i) Chlorine
- ii) Iodine
- iii) Quaternary ammonium compounds
- iv) Bromine

Choose the correct option

- A) i
- B) i and ii
- C) i and iii
- D) i, iii and iv

19. Choose the wrong statement

- A) Cow pea crop is also known as 'Vegetable meat'
- B) In India per capita availability of milk and eggs are 400 g/d and 80 eggs/annum, respectively in 2019-20.
- C) The part of tree like tender shoots, twigs, leaves, fruits, pods etc. when used as feed is known as Browse.
- D) J&K state/UT is at first place and second place in yak and horses/ponies/mules population, respectively in the country (19th Livestock Censuses).

20. Breeding value (BV) of an individual is equal to

- i) $\frac{1}{2}$ BV of sire
- ii) $\frac{1}{2}$ BV of dam
- iii) $\frac{3}{4}$ BV of sire
- iv) $\frac{3}{4}$ BV of dam

Choose the correct option

- A) Equal to ii
- B) Sum of i and ii
- C) Sum of i and iv
- D) Sum of ii and iii

21. Choose the correct statements

- i) Bhadawari is a breed of Buffalo which is known for highest fat percent in milk
- ii) Nagpuri is a breed of Buffalo which is known for highest fat percent in milk
- iii) Merino is an exotic breed used for cross breeding in sheep for fine wool
- iv) Suffolk is an exotic breed used for cross breeding in sheep for fine wool
- v) The only state/ UT of India which has registered a breed of Goose is Jammu and Kashmir
- vi) 'Taylor' is the first crossbred cattle developed in India

Which of the following option is correct?

- A) i, iv and v
- B) i, iii, v and vi
- C) iii, v and vi
- D) ii, iii and v

22. Match the following and choose the correct option

- | | |
|-----------------|------------------------------------|
| i) Hull | I Heterosis |
| ii) Shull | II Recurrent selection |
| iii) Frieswal | III Holstein Friesian × Tharparkar |
| iv) Karan Fries | IV Holstein Friesian × Sahiwal |
- A) i-II, ii-I, iii-IV, iv-III
 - B) i-I, ii-II, iii-III, iv-IV
 - C) i-I, ii-II, iii-IV, iv-III
 - D) i-II, ii-I, iii-III, iv-IV

23. Match the correct number of chromosome numbers in different species

- | | |
|----------------------|--------|
| i) Cattle | I 50 |
| ii) Riverine buffalo | II 60 |
| iii) Swamp buffalo | III 54 |
| iv) Sheep | IV 48 |

Choose the correct option

- A) i-II, ii-I, iii-III, iv-IV
- B) i-I, ii-II, iii-III, iv-IV
- C) i-I, ii-II, iii-IV, iv-III
- D) i-II, ii-I, iii-IV, iv-III

24. Fine grinding of feeds for pig is not recommended because there is increased incidence of
- Porcine proliferative enteritis
 - Gastric ulcers
 - Stomatitis
 - Ileitis
25. Match the following and chose the correct option
- | | |
|------------------|---------------------|
| i) Linseed | I Dhurrin |
| ii) Soyabean | II Linamarin |
| iii) Sorghum | III Glucosinolates |
| iv) Mustard cake | IV Kunitz inhibitor |
- i-II, ii-IV, iii-I, iv-III
 - i-I, ii-II, iii-IV, iv-III
 - i-III, ii-I, iii-IV, iv-II
 - i-IV, ii-II, iii-I, iv-III
26. Choose the correct statements among the following.
- Feed conversion ratio of swine is 1:3
 - Feed conversion ratio of broilers is 1:1.2
 - Feed conversion ratio of cattle is 1:5
 - Cost return ratio in goat is 1:11
- The options are
- i and iii
 - i and ii
 - i, iii and iv
 - i, ii, iii and iv
27. milk constituent is essential for absorption of calcium from intestine.
- Fat
 - Lactose
 - Glucose
 - Essential Fatty acid

28. Advance rapid milk quality analyser for chemical adulterants detection is based on technique.
- A) X-Ray
 - B) MRI
 - C) MIR-microspectroscopy
 - D) UV
29. Oily flavour in cream is due
- A) Excessive Heating
 - B) Sour milk
 - C) Sun light exposure
 - D) Fat Hydrolysis
30. Generally Rossgulla is prepared from the channa which is coagulated with acid.
- A) Citric acid
 - B) Phosphoric acid
 - C) Vinegar
 - D) Lactic acid
31. Site for the rennin action exit on protein.
- A) Alpha-S
 - B) Kappa
 - C) Beta
 - D) Gamma
32. Seeding of sweetened condensed milk is done during the cooling process to
- A) To increase the number of small crystals
 - B) To decrease the number of small crystals
 - C) To increase the number of large crystals
 - D) To decrease the number of large crystals
33. A simple and rapid test recommended for the sterilised milk to check whether it is sufficiently sterilized or not
- A) Turbidity Test
 - B) Alkaline Phosphatase Test
 - C) Alcohol test
 - D) Bacterial Sterility Test

34. Reconstitutability of milk powder is lowest in
- A) Spray drying
 - B) Foam drying
 - C) Freeze drying
 - D) Drum drying
35. Time-Temperature of LTLT pasteurization was increased from 61.7°C to 62.8°C for 30 minutes to ensure the destruction of the organism named
- A) Mycobacterium tuberculosis
 - B) Staphylococcus aureus
 - C) Coxiella burnetii
 - D) Bacillus cereus
36. Which of the following is/are used in starter for desirable flavor in butter making
- A) Lactococcus delbruekii
 - B) Alcaligenes viscosus
 - C) Streptococcus citrovorus
 - D) Clostridium butyricum
37. Which of the following method is most commonly used to quantity antibiotic residues in milk
- A) High Performance Liquid Chromatography
 - B) Agar Gel Immuno-diffusion Test
 - C) Gas chromatography
 - D) Fluorescent polarization assay
38. In ghee preparation, pre-stratification refers to
- A) Separation into layers of butterfat and buttermilk
 - B) Centrifugal separation
 - C) Separation and homogenisation
 - D) None of these
39. Adulteration of ghee with vanaspati can be checked by
- A) Baudouin test
 - B) Ring test
 - C) Both A and B
 - D) Hansa test

40. Phosphatase test is not applicable for

- A) UHT milk
- B) Sterilized milk
- C) Both A and B
- D) Pasteurized milk

41. Match the following and choose the correct option

- | | |
|-------------------------------|--|
| i) <i>Bacillus cereus</i> | I Q fever |
| ii) Aflatoxin | II Toxins as part of outer cell wall of bacterial cell |
| iii) <i>Coxiella burnetii</i> | III Toxins secreted outside the cell |
| iv) Exotoxin | IV Gram-positive, spore forming bacillus |
| v) Endotoxins | V Mycotoxin produced by <i>Aspergillus</i> spp |
- A) i-III, ii-II, iii-I, iv-IV, v-V
 - B) i-IV, ii-V, iii-I, iv-III, v-II
 - C) i-IV, ii-V, iii-II, iv-I, v-III
 - D) i-I, ii-III, iii-V, iv-IV, v-II

42. Assertion (A): For paneer making milk is heated upto 90°C before coagulation at 70°C.
Reason (R): Heating of milk upto 90°C facilitates interaction of whey protein with casein micelles.

Select the correct option

- A) A & R are true and R is the correct explanation of A
- B) A & R are true and R is the not correct explanation of A
- C) A is true but R is false
- D) A is false but R is true

43. Bactofugation is the process of removing bacteria at a level of

- A) 75%
- B) 99.9%
- C) 85%
- D) 100%

44. Time temperature combination for thermizing the milk is

- A) 65°C for 15 min.
- B) 65°C for 15 sec.
- C) 135°C for 15 sec.
- D) 72°C for 15 sec.

45. WPN Index of low heat powder is

- A) ≥ 6.0 mg N per gram
- B) ≥ 4.5 mg N per gram
- C) ≤ 6.0 mg N per gram
- D) ≤ 1.5 mg N per gram

46. In spray drying heat transfer takes place by

- A) Convection
- B) Radiation
- C) Conduction
- D) None of these

47. Match the following and choose the correct option

- | | |
|------------------|---|
| i) Wettability | I. Micellar protein |
| ii) Sanitization | II. Stabilizer |
| iii) Riboflavin | III. Detergent |
| iv) Casein | IV. Circulating hot water at 90 – 95 °C/10-15 minutes |
| v) Ice cream | V. Colour of whey |

- A) i-V, ii-II, iii-I, iv-IV, v-III
- B) i-III, ii-IV, iii-V, iv-I, v-II
- C) i-I, ii-V, iii-II, iv-III, v-IV
- D) i-IV, ii-III, iii-V, iv-I, v-II

48. Lumpy skin disease of cattle and buffalo, which has recently been reported from some parts of India is caused by virus belonging to the genus
- A) Orthopox virus
 - B) Parapox virus
 - C) Capripox virus
 - D) Suipox virus
49. In pigs, thimbling is observed in
- A) Vesicular Stomatitis
 - B) Vesicular Exanthema
 - C) Foot and mouth disease
 - D) Japanese encephalitis
50. In which of the following order, different strains of Ranikhet Disease should be used at different ages in periodic order (i.e. starting from hatch to full maturity)
- A) LaSota --> F --> R2B --> Inactivated vaccines
 - B) Inactivated vaccines --> F --> LaSota --> R2B
 - C) F --> LaSota --> R2B Inactivated vaccines
 - D) R2B --> inactivated vaccines --> F -- LaSota
51. Under national animal disease control programme, which vaccine is used for protection against foot and mouth disease
- A) Trivalent (O, A, Asia-1) BEI inactivated FMD vaccine
 - B) Quadrivalent (O, A, C, Asia-1) formalin inactivated FMDV vaccines
 - C) Monovalent live attenuated FMD vaccine
 - D) All of these
52. Which of the following is considered as "Gold Standard test" for diagnosis of brucellosis in animals
- A) Abortus Bang Ring test
 - B) Complement Fixation test
 - C) Standard Tube Agglutination test
 - D) Rose Bengal Plate agglutination Test

53. The alpharetroviruses or avian leucosis complex viruses can be transmitted from one bird to another through which route
- A) Horizontal transmission
 - B) Congenital transmission
 - C) Genetic transmission
 - D) All of these
54. Purified protein derivative (PPD) tuberculin is used in cattle for bovine tuberculosis diagnosis using the following route of administration
- A) Intramuscular route
 - B) Intravenous route
 - C) Intraperitoneal route
 - D) Intradermal route
55. Marked swelling of neck, blood tinged edema and petechial haemorrhages in many tissues and organs seen in post mortem of cattle is indicative of which disease
- A) Anthrax
 - B) Hemorrhagic septicaemia
 - C) Black quarter
 - D) Bovine tuberculosis
56. Elevation of "muscle enzymes particularly _____ occur in Capture Myopathy
- A) Aspartate aminotransferase (AST)
 - B) Creatine phosphokinase (CPK)
 - C) Lactate dehydrogenase (LDH)
 - D) Alanine amino-transferase (ALT)
57. Small turtles frequently transmits _____ infection to humans, particularly young children putting a ban on more than six small turtles or six eggs in USA
- A) Salmonella
 - B) Shigella
 - C) Staphylococcus
 - D) Streptococcus

58. Manual cervical dislocation is an acceptable method of euthanasia in small animals weighing
- A) < 100 g
 - B) < 200 g
 - C) < 300 g
 - D) < 500 g
59. The Extra-gonadal spermatozoal reserve include sperms from
- A) Rete Testis, Epididymis, Ductus Deferens
 - B) Ductus Deferens, Rete Testis, Ampulla
 - C) Epididymis, Ductus Deferens, Ampulla
 - D) Epididymis, Rete Testis, Ampulla
60. Translocating cytoplasmic droplet is present in the spermatozoa as it traverses through
- A) Head of the epididymis
 - B) Body of the epididymis
 - C) Tail of the epididymis
 - D) All of the above
61. During follicular development in cattle, the 2-Cell 2-Gonadotropin pathway finally leads to
- A) Increase in the levels of Prostaglandin
 - B) Decrease in the level of Estrogen
 - C) Increase in the level of Estrogen
 - D) Decrease in the level of Prostaglandin
62. Which of the following form of Newcastle disease is characterized by heavy mortality and hemorrhagic lesions in intestinal tract?
- A) Lentogenic respiratory Newcastle disease
 - B) Viscerotropic Velogenic Newcastle disease
 - C) Neurotropic Velogenic Newcastle disease
 - D) Mesogenic Newcastle disease

63. Black Berry Jam appearance of spleen in cattle is seen in which of the following disease?
- A) Tuberculosis
 - B) Haemorrhagic septicemia
 - C) Black Disease
 - D) Anthrax
64. Velogenic Viscerotropic pathotype of New Castle disease virus produces
- A) Beaudetti's Form
 - B) Hitchner's form
 - C) Doyle's form
 - D) None of these
65. Hanger Rose Test used to diagnose Bartonellosis is based on
- A) In-vitro amplification of DNA
 - B) Complement fixation
 - C) Western blotting
 - D) Delayed type hypersensitivity
66. Sterne vaccine used against anthrax is an attenuated, avirulent, _____ type of vaccine
- A) Non capsulated, live attenuated spore
 - B) Non capsulated, killed spore
 - C) Capsulated, live attenuated spore
 - D) Capsulated, killed spore
67. Which of the following is considered as "Gold Standard test" for diagnosis of Leptospirosis in dogs
- A) Abortus Bang Ring test
 - B) Microscopic Agglutination Test
 - C) ELISA
 - D) Rose Bengal Plate Agglutination Test

68. Consider the following statements

- i) There is a solid cross immunity between serotypes of FMD virus.
- ii) Pigs should be vaccinated for FMD.
- iii) No antibiotics should be given to animals within 1 week of anthrax vaccination.
- iv) Some legumes do not cause bloat because they contain tannins.

Which of the above mentioned statements are correct?

- A) i, iii and iv
- B) ii, iii and iv
- C) i, ii and iii
- D) i, ii and iv

69. Consider the following statements

- i) Non-structural proteins of FMD virus : distinguish an animal that has been infected from vaccinated or infected animal
- ii) FMD non-fatal: adult animals
- iii) Diabetes Mellitus : FMD
- iv) Pig vaccines : oil adjuvanted

Which of the above pairs are correctly matched?

- A) i and ii
- B) i, ii and iv
- C) i, iii and iv
- D) All of the above

70. Which clinical findings in BQ do not occur in sheep?

- A) Stiff gait with disinclination to move
- B) High fever and anorexia
- C) Skin necrosis and gangrene
- D) Head edema and nasal bleeding

71. Consider the following statements

- i. Rapid, shallow breathing is the cardinal sign of early pneumonia.
- ii. In the advanced stages, severe dyspnea with an inspiratory grunt is common.
- iii. Bacterial bronchopneumonia is usually accompanied by a moist and painful cough.
- iv. In viral interstitial pneumonia the coughing is infrequent, dry and hacking.
- v. Theophylline is used as bronchodilator in cattle pneumonia.

Which of the above given statement are not true?

- A) ii and v
- B) iii and iv
- C) ii and iv
- D) iv and v

72. Most of the mycoplasmal pneumonias do not respond well to antibiotic treatment because

- A) Mycoplasma are not treated by antibiotics
- B) Mycoplasma lodge intracellularly
- C) Mycoplasmal pneumonia are complicated by the viral infection
- D) Mycoplasmal pneumonia needs a very long therapy

73. What concentrations of serum IgG1 in dairy calves provide sufficient protection against risk of infectious diseases in most of the environments?

- A) 250 mg/dl or more
- B) 500 mg/dl or more
- C) 750 mg/dl or more
- D) 1000 mg/dl or more

74. Omphalophlebitis in calves may lead to formation of _____.

- A) Large lung abscesses
- B) Large hepatic abscesses
- C) Large splenic abscesses
- D) Large hepatic and splenic abscesses

84. Which of the following breed of exotic cattle is widely used for improvement program in India in the hilly states
- A) Jersey
 - B) Ayershire
 - C) Brown Swiss
 - D) Shorthorn
85. Which of the following statement is not true for ideal crops to be used for ensuing?
- A) Optimum moisture content should be around 60-65%
 - B) Crop should have good percentage of sugars
 - C) Crop should be harvested at preflowering to flowering stage
 - D) Only leguminous crops must be used for silage making
86. All are synthetic breed of sheep developed in India except
- A) Bharat Merino
 - B) Hisardale
 - C) Frieswal
 - D) Kashmir Merino
87. Which of the following statement about NECC (National Egg Coordination Committee) is not true
- A) Association of poultry farmers
 - B) Fixes minimum wholesale egg price
 - C) Controlled/managed by ICAR
 - D) Involved in egg promotion campaign
88. Which of the following pair is not matched correctly
- A) Chegu : Goat breed
 - B) Banni : Donkey breed
 - C) Gangatiri : Cattle breed
 - D) Mehsana : Buffalo breed

89. The daily DE (Mcal/d) requirements for very heavy work in the equine is calculated as
- A) 20% of maintenance requirement
 - B) 40% of maintenance requirement
 - C) 60% of maintenance requirement
 - D) 90% of maintenance requirement
90. The anti nutritional factor present in the soyabean
- A) Goosypol
 - B) Linamarin
 - C) Ricin
 - D) Hemagglutinins
91. RM value in ghee in Saurashtra and Kutch region is than rest of the state.
- A) Higher
 - B) Lower
 - C) Equal
 - D) Zero
92. Floor slope towards the drain in Processing hall and cold storage should be minimum and respectively.
- A) 1/8 inch per foot and 1/16 inch per foot
 - B) 1/4 inch per foot and 1/8 inch per foot
 - C) 1/10 inch per foot and 1/20 inch per foot
 - D) 1/6 inch per foot and 1/12 inch per foot
93. Granularity in ghee is due to
- A) Palmitic acid
 - B) Slow cooling of ghee
 - C) Both A and B
 - D) Rapid cooling of ghee

94. Specific gravity of milk on the addition of water and on the addition of fat respectively
- A) Decrease and increase
 - B) In both conditions increase
 - C) In both conditions decrease
 - D) Increase and Decrease
95. Milk can acts as source of which of the following parasitic infection to humans
- A) Echinococcosis
 - B) Toxoplasmosis
 - C) Fascioliosis
 - D) Trichinellosis
96. Blue colour of milk is caused due to presence of which organism
- A) *Serratia marcescens*
 - B) *Pseudomonas synxantha*
 - C) *Pseudomonas syncyanea*
 - D) *Pseudomonas aurogenosa*
97. Which of the following is/are essential components of Lactoperoxidase system
- A) Lactoperoxidase
 - B) Thiocyanate
 - C) Hydrogen peroxide
 - D) All of these

98. Insolubility index of whole milk powder should not be more than

- A) 2.0 ml
- B) 1.5 ml
- C) 3.0 ml
- D) 2.5 ml

99. Which of the following equipment is used for measurement of freezing point of milk?

- A) Polarimeter
- B) Refractometer
- C) Cryoscope
- D) Instron

100. Which of the following is a heat dessicated dairy product?

- A) Chhana
- B) Khoa
- C) Makhhan
- D) Chakka

101. An Indian Institute of Technology (IIT) has recently collaborated with the Indian Meteorological Department to develop smart climate solutions at the city, district and village level. Find out the correct answer from below:

- A) Delhi
- B) Bombay
- C) Kanpur
- D) Guwahati

102. Who of the following has authored a book published in 2021, which describes about Rani Jindan Kaur, the last and youngest queen of Maharaja Ranjit Singh?

- A) Chitra Banerjee Divakaruni
- B) Meena Kandasamy
- C) Jhumpa Lahiri
- D) Anuja Chauhan

103. The Computer Society of India has conferred an award of recognition on a portal of Indian government. Find the name of the portal from below:

- A) Madad
- B) Anubhav
- C) Swasthya
- D) E-Sanad

104. Consider the following sentences:

1. The Crypt-analytically relevant quantum computer (CRQC) is a quantum computer of sufficient size and sophistication.
2. The CRQC will be capable of breaking much of the public-key cryptography used on digital systems across the US and the globe.

Which of the above statement/statements is/are correct?

- A) 1 Only
- B) 2 Only
- C) Both 1 & 2
- D) Neither 1 nor 2

105. The online tool for poverty measurement is developed by Development Research Group of which one of the following institutions?

- A) IMF
- B) AIIB
- C) World Bank
- D) Reserve Bank of India

106. Match List I & List II and find the correct one below.

List I

Indian Government Missions

- a) Mission Karmyogi
- b) Atal Innovation Mission
- c) Smart Cities Mission
- d) Ayushman Bharat

List II

Focused Area

- I. Health
- II. Urban Development
- III. Innovation and Entrepreneurship
- IV. Civil Services reform

Find the correct one

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

107. Which one of the following is not true about Justice (Retd.) Ranjana Prakash Desai?

- A) She is the head of the Delimitation Commission set up for Jammu and Kashmir UT and four north-eastern states.
- B) She was the Chairperson of the Appellate Tribunal for Electricity in 2014.
- C) She was the fifth woman judge in the history of Supreme Court.
- D) She was the Chief Justice of Bombay High Court.

108. Match List I & List II.

List I

Books

- a) Who Moved my Interest Rates
- b) I do what I do
- c) Overdraft: Saving the Indian saver
- d) India after Liberalisation

List II

Authors

- I. Urjit Patel
- II. D. Subbarao
- III. Bimal Jalan
- IV. Raghuram Rajan

Find the correct one

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

109. Who of the following is the Vice Chairperson (ex-officio) of the National Council for Transgender Persons?

- A) Union Minister of Social Justice and Empowerment
- B) Union Minister of State for Social Justice and Empowerment
- C) Secretary to the Government of India in charge of Ministry of Social Justice and Empowerment
- D) Joint Secretary to the Government of India in charge of Ministry of Social Justice and Empowerment

110. Who made primary education compulsory in the UT Jammu and Kashmir?

- A) Maharaja Hari Singh
- B) Maharaja Gulab Singh
- C) Maharaja Ranjit Singh
- D) None of the above

111. The largest wild goat in the world found only in Jammu and Kashmir is

- A) Pir Panjal Markhor
- B) Asiatic Ibex
- C) Both (A) and (B)
- D) None of the above

112. Name the district of Jammu and Kashmir which has the highest population density.

- A) Ganderbal
- B) Bandipora
- C) Jammu
- D) None of these

113. Total number of national parks in Jammu and Kashmir

- A) 5
- B) 7
- C) 3
- D) 4

114. During whose reign, the UT Jammu and Kashmir got its first Hydro-Electric Project at Mohra?

- A) Maharaja Hari Singh
- B) Maharaja Gulab Singh
- C) Maharaja Pratap Singh
- D) Maharaja Ranbir Singh

115. In which year, the first Legislature of Jammu and Kashmir was established?

- A) 1819 AD
- B) 1890 AD
- C) 1934 AD
- D) 1970 AD

116. Which tale ballet is sung by Jogies along with dance style?

- A) Karak
- B) Gwatri
- C) Geetru
- D) Nend Baith

117. Which of the following folk dances is mostly performed in the hilly areas of Jammu region?

- A) Heren
- B) Chham
- C) Dumhal
- D) Hafiz Nagma

118. Between which mountain ranges is Kashmir Valley located

- A) Himadri – Pir Pranjol
- B) Shivalik – Himachal
- C) Karakoram – Himachal
- D) Himadri – Himachal

119. According to 2011 Census, Gujjar tribe occupies _____ ST population in Jammu and Kashmir region

- A) 60.60 %
- B) 65.67 %
- C) 50.30 %
- D) 58.40 %

120. Consider the following regarding the recently launched Parvaz scheme of the Government of J&K

- a) It is a market linkage scheme for all agriculture and horticulture produce. .
- b) The Government would provide a subsidy of 25% on freight charges for air cargo.
- c) The scheme is being implemented by J&K Horticulture produce Marketing and processing corporation.

Which of the above is correct“

- A) a and b
- B) b and c
- C) Only b
- D) All are correct

ANNEXURE TO
Notification No. PSC/Exam/S/2023/31 Dated: 14.07.2023

Q.No.	SERIES A	SERIES B	SERIES C	SERIES D
1	C	D	C	C
2	C	A	C	A
3	D	D	B	A
4	DELETE	A	DELETE	D
5	A	D	D	D
6	B	D	D	D
7	A	A	B	B
8	A	A	B	A
9	A	C	A	C
10	C	A	B	A
11	D	A	B	B
12	D	A	A	B
13	A	C	B	B
14	C	A	A	A
15	C	B	B	B
16	A	A	C	D
17	C	A	D	A
18	D	A	C	C
19	B	A	C	C
20	B	B	C	B
21	D	B	A	C
22	A	B	C	B
23	B	B	D	C
24	D	B	D	A

Q.No.	SERIES A	SERIES B	SERIES C	SERIES D
25	D	B	A	C
26	A	B	B	B
27	D	A	D	C
28	D	A	B	A
29	DELETE	C	B	B
30	B	DELETE	A	C
31	D	C	C	C
32	A	C	A	C
33	D	B	A	D
34	A	DELETE	D	DELETE
35	D	D	D	A
36	D	D	D	B
37	A	B	B	A
38	A	B	A	A
39	C	A	C	A
40	A	B	A	C
41	A	B	B	D
42	A	A	B	D
43	C	B	B	A
44	A	A	A	C
45	B	B	B	C
46	A	C	D	A
47	A	D	A	C
48	A	C	C	D
49	A	C	C	B
50	B	C	B	B

Q.No.	SERIES A	SERIES B	SERIES C	SERIES D
51	B	A	C	D
52	B	C	B	A
53	B	D	C	B
54	B	D	A	D
55	B	A	C	D
56	B	B	B	A
57	A	D	C	D
58	A	B	A	D
59	C	B	B	DELETE
60	DELETE	A	C	B
61	C	C	C	D
62	C	A	C	A
63	B	A	D	D
64	DELETE	D	DELETE	A
65	D	D	A	D
66	D	D	B	D
67	B	B	A	A
68	B	A	A	A
69	A	C	A	C
70	B	A	C	A
71	B	B	D	A
72	A	B	D	A
73	B	B	A	C
74	A	A	C	A
75	B	B	C	B
76	C	D	A	A

Q.No.	SERIES A	SERIES B	SERIES C	SERIES D
77	D	A	C	A
78	C	C	D	A
79	C	C	B	A
80	C	B	B	B
81	A	C	D	B
82	C	B	A	B
83	D	C	B	B
84	D	A	D	B
85	A	C	D	B
86	B	B	A	B
87	D	C	D	A
88	B	A	D	A
89	B	B	DELETE	C
90	A	C	B	DELETE
91	C	C	D	C
92	A	C	A	C
93	A	D	D	B
94	D	DELETE	A	DELETE
95	D	A	D	D
96	D	B	D	D
97	B	A	A	B
98	A	A	A	B
99	C	A	C	A
100	A	C	A	B
101	B	D	A	B
102	B	D	A	A

Q.No.	SERIES A	SERIES B	SERIES C	SERIES D
103	B	A	C	B
104	A	C	A	A
105	B	C	B	B
106	D	A	A	C
107	A	C	A	D
108	C	D	A	C
109	C	B	A	C
110	B	B	B	C
111	C	D	B	A
112	B	A	B	C
113	C	B	B	D
114	A	D	B	D
115	C	D	B	A
116	B	A	B	B
117	C	D	A	D
118	A	D	A	B
119	B	DELETE	C	B
120	C	B	DELETE	A


(Vinay Samotra) JKAS
 Additional Secretary/ DCOE
 J&K Public Service Commission

14/7/23