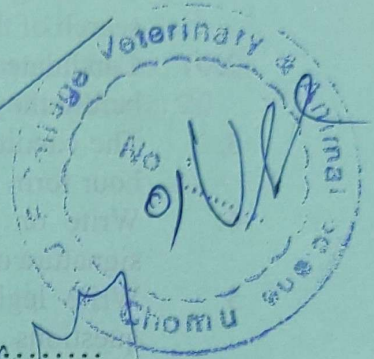


B.V.Sc. & A.H. (Second Professional) Examination – 2022

Animal Nutrition Paper -II

(MSVE 2016)



To be filled by the candidate:

Candidate's Roll Number:

In figure

In words

Candidate's Enrolment Number:

Day and date of examination:

Please see for general instructions overleaf.

Signatures of invigilators verifying the details filled by the candidate

Signature of invigilator 1: 2:

Candidate should not write anything below this line

Marks to be filled by the examiner:

| Section A | |
|--------------|-------|
| Q. No. | Marks |
| 1. | |
| 2. | |
| 3. | |
| 4. | |
| 5. | |
| Total | |

Total Marks obtained:

In figures: In words:

Signature of examiner:

B.V.Sc. & A.H. (Second Professional) Examination – 2022
Animal Nutrition Paper -II

Time: Three Hours

Maximum Marks: 100

Weightage: 20

Unit-3 (Applied Ruminant Nutrition-II)

Unit-4 (Applied Non-Ruminant Nutrition)

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 Parakeratosis in pigs is caused due to deficiency of _____
- 1.2 Parrot beak condition in poultry is due to deficiency of _____
- 1.3 Calcium content of limestone powder is _____
- 1.4 Oligosaccharides is an example of _____
- 1.5 Species which requires dietary source of vitamin C is _____
- 1.6 Foot pad dermatitis is associated with which species _____
- 1.7 The largely used energy source in poultry diet is _____
- 1.8 In chicks perosis is caused due to deficiency of _____
- 1.9 Anti nutritional factor present in raw soybean is _____
- 1.10 For horses energy requirements are generally expressed as _____
- 1.11 Cotton seed contains anti-nutritional factor _____
- 1.12 The Indian Feeding standards are based on _____
- 1.13 Coprophagy is observed in _____
- 1.14 Goose stepping gait in pig is due to the deficiency of _____
- 1.15 Anti nutritional factor present in subabul _____
- 1.16 Metabolic body weight is denoted by _____

- 1.17 Which species are highly susceptible to aflatoxin _____
- 1.18 Minimum percent CP requirement in grower as per BIS 2007 _____
- 1.19 1 kg TDN equals _____ Mcal of DE
- 1.20 Yellow yolk colour is due to which pigment _____

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 Nervous disorder in poultry is caused due to deficiency of _____ ()
1. Vit B₁
 2. Vit B₂
 3. Vit B₆
 4. Vit B₁₂
- 2.2 The feed additive which gets lodged in gizzard and help in grinding _____ ()
1. Inulin
 2. Grit
 3. Gizzarosine
 4. Antibiotics
- 2.3 Minimum energy required for broiler pre-starter as per BIS 2007 _____ ()
1. 2900 Kcal
 2. 3000 Kcal
 3. 3100 Kcal
 4. 3200 Kcal
- 2.4 Muscular dystrophy is associated with _____ ()
1. Vit A
 2. Vit C
 3. Vit E
 4. Vit K
- 2.5 Concept of net energy was given by _____ ()
1. Armsby
 2. Ranjhan
 3. Thaer
 4. Morrison
- 2.6 Aflatoxin is produced by _____ ()
1. Fusarium
 2. Mycoplasma
 3. Aspergillus
 4. None
- 2.7 Ducks do not have _____ ()
1. Crop
 2. Gizzard
 3. Proventricullus
 4. All above

- 2.8 Type of energy used in poultry ration ()
1. DE
2. NE
3. GE
4. ME
- 2.9 Microbial culture of beneficial bacteria fed to livestock is ()
1. Prebiotics
2. Probiotics
3. Symbiotics
4. None
- 2.10 Factors considered to determine energy requirement for maintenance ()
1. BMR
2. Activity increment
3. Both
4. None
- 2.11 Calcium percent of layer II feed as per BIS 2007 should be ()
1. 0.5
2. 1.0
3. 1.5
4. 3.5
- 2.12 The example of nutrient feed additive is ()
1. Urea
2. Molasses
3. Mineral mixture
4. All above
- 2.13 In Scandinavian feed unit which of the following is used ()
1. Oat
2. Barley
3. Maize
4. Berseem
- 2.14 Which one of the following is anti stress vitamin ()
1. Vit A
2. Vit C
3. Vit E
4. Vit K
- 2.15 NRC feeding standard is used by which country ()
1. UK
2. USA
3. India
4. None
- 2.16 Colic is generally observed in which species ()
1. Horses
2. Pigs
3. Rabbits
4. Guinea pigs

- 2.17 Nitrogen content in urea is ()
1. 16%
2. 26%
3. 36%
4. 46%
- 2.18 Swollen hock syndrome in chicks is due to deficiency of ()
1. Copper
2. Zinc
3. Iron
4. Manganese
- 2.19 Enzyme phytase is required to make available ()
1. Phosphorus
2. Iron
3. Manganese
4. Zinc
- 2.20 The trace mineral constituent of vitamin B₁₂ is ()
1. Chromium
2. Cobalt
3. Copper
4. Zinc

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 Define starch equivalent

3.2 What is Caecotrophy?

3.3 Importance of phase feeding in poultry

Please write your Roll Number above this line

3.4 Write about crumble feed

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3.5 Discuss "Thumps" in brief

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3.6 Importance of challenge feeding

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3.7 What is creep feed?

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3.8 Enumerate use of probiotics in poultry

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3.9 Feeding of Bypass fat in ruminants

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3.10 Importance of restricted feeding in poultry

3.11 What is cannibalism?

3.12 Write about calf starter feed

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 Discuss feeding of ducks

4.2 Discuss Feeding of guinea pigs

4.3 Write about importance of colostrum in neonatal calf

4.4 Discuss piglet anaemia

4.5 Write about least cost ration

Please write your Roll Number above this line

4.6 Write in brief about Indian feeding standards

4.7 What is nutritive ratio? write different nutritive ratio and their importance

Please write your Roll Number above this line

4.8 Importance of bypass protein in high yielding animals

Q.5 Answer the following question in 1-2 pages (attempt any two). (2x12.0 = 24)

- 5.1 (A) Discuss nutrient requirement and feeding of broilers as per BIS 2007 (6)
(B) Discuss calf feeding in details (6)
- 5.2 (A) What are the steps involved in computation of ration, explain with suitable example in cattle (6)
(B) Discuss feeding of pregnant and lactating mare (6)
- 5.3 (A) Write about nutrient requirements, feeds and feeding habits of goats (6)
(B) Write about feeding schedule of lion, tiger and panther in captivity (6)