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**ZOOLOGY PAPER - II : ZOO - 122**  
**Applied Zoology - I (Goatery and Lac Culture)**  
**(115202)**

**Time : Two Hours**

**Max. Marks : 60**

1. Do not write anything on question paper except Seat No.
2. Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All questions are compulsory and figure to the right indicate full marks.
5. Draw neat labelled diagrams wherever necessary.

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- i) Goats achieves sexual maturity at the age of ..... months.
  - a) 8 - 10
  - b) 10 - 12
  - c) 12 - 15
  - d) 15 - 18
- ii) Amritsari is common name for ..... breed.
  - a) Beetle
  - b) Marwari
  - c) Ganjam
  - d) Surti
- iii) ..... are the primary sex organs in male goat.
  - a) Testis
  - b) Penis
  - c) Scrotum
  - d) Sex gland
- iv) ..... causes an infectious disease called scabies.
  - a) Flies
  - b) Ticks
  - c) Lice
  - d) Mites
- v) ..... has its monopoly on the production of lac.
  - a) China
  - b) France
  - c) Africa
  - d) India
- vi) The pruned host plant in month of January or June is called ..... lac.
  - a) Brood
  - b) Stick
  - c) Ari
  - d) Mature

- vii) India produce ..... % of global lac.  
a) 50  
b) 60  
c) 70  
d) 80
- viii) At present there are ..... Breeds of goat in India.  
a) 18  
b) 20  
c) 22  
d) 25

b) Answer in one sentence **any six**.

6

- i) What is Chevon?
- ii) What is average weight of male and female goats of Meshana goat.
- iii) What are functions of goat ovary.
- iv) Enlist ectoparasites of goat.
- v) What is pashmina.
- vi) Enlist enemies of lac.
- vii) What is mean by inoculation.
- viii) What is mean by breed.

2. Define / Explain / Comment any six.

12

- Baisakhi lac
- Lac-Cell.
- Goat milk
- Mastitis
- Colostrum
- Dry matter
- Explain Meshana breed
- Scope of goatary.

3. Attempt **any four** from following. 12
- i) Explain briefly oviduct of goat.
  - ii) Write a note on dehorning in goats.
  - iii) Write any three properties of lac.
  - iv) Sketch and label first instar nymph of lac insect.
  - v) Give the distribution of Meshana.
  - vi) Explain prevention and treatment of bloat disease in goat.
4. Attempt **any three** from following. 12
- i) Sketch and label reproductive organs of female goat.
  - ii) Define external parasite. Briefly describe external parasites of goat.
  - iii) What is castration ? Write advantages of castration in goat.
  - iv) Give the breed characteristics of Barbari.
  - v) Write a note on feeding of kids.
5. Describe in details **any two**. 12
- i) Describe the reproductive system of male goat.
  - ii) Describe distribution and characteristics of Jamunapari breed.
  - iii) With labelled diagram describe morphology of male and female lac-insect.

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