

পশ্চিমবঙ্গ প্রাণী ও মৎস্য বিজ্ঞান বিশ্ববিদ্যালয়

WEST BENGAL UNIVERSITY OF ANIMAL AND FISHERY SCIENCES



কলকাতা
KOLKATA
2022

PROFORMA - A

B.V.Sc. & A.H. First Professional Regular Annual Examination

Subject – Livestock Production Management

(Paper-II)

Theory Examination (External)

Full marks: 100

Time: 03 hours

Registration No.- of

Roll No. - V/20 /

Signature of the Invigilator

Candidates are required to check the continuity of the question paper before start answering. Answer the question in the space provided. The invigilator if required will supply extra sheets. Special credit will be given for answer that are brief and to the point. Marks will be deducted for spelling mistakes, untidiness and poor handwriting.

Marks obtained	
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Signature of the examiner

1st Professional B.V.Sc. & A.H. Annual Composite Examination, 2022

Class: B.V.Sc. & A.H.

Subject: Livestock Production Management, Paper-

II Course No.: Unit-6, 7, 8, and 9

Time: 3 hours

Full marks: 100

Note: 1) All questions of Section 'A' are compulsory.

2) Draw a well labeled diagram wherever necessary.

Section-'A' (Objective type questions)

Q.1. Fill in the blanks with most suitable words (0.5 x 20=10)

- i. Sexing done by observing visual characters like colour of plumage, feathering is known as
- ii. Numbers of air sacs present in poultry.....
- iii. Depigmentation process in poultry starts from.....
- iv. is the fertilization site in the poultry.
- v. % of O₂ is considered as ideal for proper incubation of eggs.
- vi. Kcal Metabolizable Energy (ME) is required for Chick mash.
- vii. Is the process of removing the comb.
- viii.Hormone is responsible for Ovi-position.
- ix. Weaning age of rabbits is.....
- x..... is known as the act of parturition in rabbits.
- xi. Adult females of pigs have..... numbers of teeth.
- xii..... are provided in the farrowing sty to prevent piglet's mortality.
- xiii. Concrete flooring is preferred in farming. (Pig/Poultry/Yak)
- xiv. Act of matting in swine is known as
- xv. Ghurrah is a newly registered breed of.....
- xvi. Ghurrah breed belongs to.....state
- xvii.....is an important native chicken breed of India, known for its martial qualities, pugnacity, and majestic gait
- xviii. Kadaknath originated from.....(Name of state).
- xix. The last born piglets is known as.....
- xx.....is the breed of pig having white belt around the shoulder.

Q. 2. Choose the most appropriate answer from the options given below

(0.5 x 20 = 10)

- i. Pig population is mainly concentrated in -
 - a. North India
 - b. South India
 - c. North Eastern India
 - d. None of these

- ii. Maximum numbers of mortality occurs in piglets due to -
 - a. Piglet Anemia
 - b. Crushing by mother
 - c. Heat stress
 - d. None

- iii. Vaccination is done at what age for swine fever in piglets-
 - a. 1 Month
 - b. 2 Month
 - c. 3 Month
 - d. 4 Month

- iv. Black colored breed with 6 white mark on body-
 - a. Berkshire
 - b. Tamworth
 - c. Landrace
 - d. Duroc

- v. Male castrated before sexual maturity is known as -
 - a. Boar
 - b. Hog
 - c. Doe
 - d. Stag

- vi. Long term stress in pig leads to which carcass defects-
 - a. DFD
 - b. PSE
 - c. Both
 - d. None

- vii. Most essential fatty acid for pig is-
 - a. Linoleic acid
 - b. Linolenic acid
 - c. Arachidonic acid
 - d. None

- viii. Which of the following is best identification method in pigs-
 - a. Ear notching
 - b. Tagging
 - c. Branding
 - d. None

- ix. Covered space required for dry sow is -
 - a. 1.4 sq. m.
 - b. 1.8 sq. m.
 - c. 6-7 sq. m.
 - d. 12 sq. m.

- x. Snood and Caruncles are typical features of -
 - a. Chicken
 - b. Duck
 - c. Turkey
 - d. Guinea fowl

- xi. Feathers on shanks are typical features of-
 - a. American class
 - b. English class
 - c. Asiatic class
 - d. Mediterranean class

- xii. Component of egg which is formed and deposited in magnum part of oviduct is-
 - a. Albumin
 - b. Cell membrane
 - c. Egg shell
 - d. None

- xiii. Egg is a poor source of.....required for human diet-
 a. Ca b. Vit. D
 c. Vit. C d. Vit. B complex
- xiv. Ideal Relative Humidity % in brooder house should be-
 a. 30 % b. 40 %
 c. 60 % d. 80 %
- xv. Eggs should be placed in settler having -
 a. Narrow end upward b. Broad end upward
 c. Horizontal position d. None
- xvi. NRC Yak is situated at -
 a. Arunachal Pradesh b. J & K
 c. Sikkim d. Assam
- xvii. Which of the following is also known as Ceremonial Ox -
 a. Yak b. Mithun
 c. Pig d. Rabbit
- xviii. *Bos frontalis* is scientific name of-
 a. Cattle b. Mithun
 c. Yak d. Buffalo
- xix. Protein % in layer mash should be-
 a. 16% b. 18 %
 c. 22 % d. 32 %
- xx. Shell constitute % of eggs weight-
 a. 10 % b. 30 %
 c. 50 % d. 60 %

Q.3. State whether the following statements are True or False

(0.5 x 20=10)

- i. Deficiency of Ca in pigs causes piglets Anemia (True /False)
- ii. Duroc is a Red colour Swine breed. (True /False)
- iii. Ranting is a disease in poultry caused by bacteria. (True /False)
- iv. Tusks are modified corner incisors in Boar. (True /False)
- v. Gestation period of the pig is about 64 days. (True /False)
- vi. Wallowing is also necessary for swine due to lack of sweat glands. (True /False)
- vii. Shell membrane of the egg is secreted by the uterus in poultry. (True /False)
- viii. Pea comb type pattern is present in Brahma and Cochin. (True /False)
- ix. One % decrease in O₂ concentration in incubation increases the hatchability upto 5%. (True /False)

- x. Eggs can be placed in a horizontal position during the setter period of Incubation. (True /false)
- xi. Moulting (loss of the feathers) process starts in poultry from the breast region. (True /false)
- xii. Among all air-sacs present in poultry, only the cervical air sac remains single. (True /false)
- xiii. Scientific name of domestic yak is *Bos grunniens*. (True /false)
- xiv. Rabbit consume dry matter about 6-8% of their body weight. (True /false)
- xv. The 2n numbers of chromosomes present in rabbits is 38. (True /false)
- xvi. Rabbits are the foregut fermenters. (True /false)
- xvii. Gestation period of pigs is about 3 month 3 week and 3 days. (True /false)
- xviii. Guard rail should be placed in boar sty to prevent piglet mortality. (True /false)
- xix. Dressing percentage of pigs is about 40-50 %. (True /false)
- xx. Weaning is practiced at 8 weeks of age in the Swine. (True /false)

Q.4. A. Select the correct answer for Column A from Column B and write in the space provided (0.5 x 10=5)

	Column A	Answer		Column B
i.	Mali		a.	Chhattisgarh, Orissa and Andhra Pradesh
ii.	Soviet Chinchilla		b.	Russia
iii.	Ankaleshwar		c.	Meghalaya and Tripura
iv.	Satin		d.	USA
v.	Daothigir		e.	Assam
vi.	Flemish Giant		f.	Gujarat
vii.	Tellicherry		g.	Rajasthan
viii.	Aseel		h.	United Kingdom
ix.	Chittagong		i.	Pig Breed
x.	Mewari		j.	Kerala

B. Select the correct answer for Column A from Column B and write in the space provided (0.5x10=5)

	Column A	Answer		Column B
i.	Incubation period of Muscovy duck eggs		a)	More chances of parasitic diseases and enteritis
ii.	Broiler finisher		b)	Bones of spent hens becomes weak
iii.	Incubation period of duck egg		c)	Culling
iv.	Deep litter system		d)	35 days
v.	Cage system		e)	Isolation
vi.	Removing non layer birds from farm		f)	Broiler
vii.	Separation of sick birds from the flock		g)	Layer
viii.	Egg type chicken		h)	Vanaraja
ix.	Met type chicken		i)	Ad-libitum feeding
x.	LIT bird		j)	28 days

Section-'B' (Descriptive answer type questions)
(Solve any six questions from Section 'B')

Q. 5. Write short note (any four) (4x 2.5 = 10)

- i. Specific strains developed for rural poultry production
- ii. Types of Brooder
- iii. Backyard Poultry Farming
- iv. Piglet Anemia
- v. Rabbit breeds
- vi. Indigenous pig breeds of North Eastern India

Q. 6. Descriptive type question (any five)

Q. A. i) Care and Management of Pregnant Sow

05

	ii)	Care and Management of Piglets	05
Q.B	i)	Yaks adaptation to high altitude	05
	ii)	What are the utilities of Mithun?	05
Q.C.	i)	What are the limitations of rabbit animal production?	05
	ii)	What are the Breeding and selection techniques for optimal production of rabbits?	05

Q. D. i) Describe about Integrated poultry farming

05

ii) Feeding management for Rabbits?

05

- Q. E. Give a detail account on Bio-security and principles of disease prevention management in poultry production 10
- Q. F. What are the different types of housing for poultry? What are the recent advances in housing systems and rearing systems ? 10
- Q.G. Give a detail account on Broiler and Layer Vaccination schedules 10
