

C-HENT-N-ZGURA

ANIMAL HUSBANDRY AND VETERINARY SCIENCE

Paper-I

Time Allowed: Three Hours

Maximum Marks: 200

QUESTION PAPER SPECIFIC INSTRUCTIONS

Please read each of the following instructions carefully before attempting questions:

There are EIGHT questions in all, out of which FIVE are to be attempted.

Question no. 1 and 5 are compulsory. Out of the remaining SIX questions, THREE are to be attempted selecting at least ONE question from each of the two Sections A and B.

Attempts of questions shall be counted in chronological order. Unless struck off, attempt of a question shall be counted even if attempted partly. Any page or portion of the page left blank in the Answer Book must be clearly struck off.

All questions carry equal marks. The number of marks carried by a question/part is indicated against it.

Answers must be written in ENGLISH only.

Neat sketches may be drawn, wherever required.

SECTION-A

Q. 1 W	rite short notes on the following in about 150 words each:	8×5=40
Q. 1(a)	Oestrus cycle	8
Q. 1(b)	Starch equivalent	. 8
Q. 1(c)	Species hybridization	8
Q. 1(d)	Colostrum feeding	8
Q. 1(e)	Traits of economic importance in cattle	8
Q. 2(a)	What is cold stress? Discuss in brief the factors affecting an animal's abil stand.	ity to with- 15
Q. 2(b)	Enumerate the key managemental factors to limit the effects of cold stress.	10
Q. 2(c)	What is parturition? Write in detail the hormonal control of parturition.	15
Q. 3(a)	What are feed additives? Give the classification of feed additives and dusefulness in livestock and poultry feeding.	iscuss their 15
Q. 3(b)	How do you classify minerals? What general vital roles do they play in anim	nal system?

Q. 3(c)	What is gross energy? Give the schematic repressof feed in animal body.	entation	of partitioning	of gross energy
Q. 4(a)	Define selection. Discuss different methods of sel as best and why?	lection.	Which method	do you consider 20
Q. 4(b)	What is genetic response? Discuss the factors a	ffecting	genetic respons	se. 10
Q. 4(c)	Define intensity of selection. Enlist various factor	s determ	ining the intens	ity of selection
	SECTION—B		1 1	
Q. 5. C c	ompare and contrast between the following in a	about 15	0 words each	: 8×5=40
Q. 5(a)	Digestible energy and metabolizable energy.	İ		. 8
Q. 5(b)	Gross staggers and blind staggers.	i i	; 	. 8
Q. 5(c)	Genetic environment interaction and genetic envi	ironmen	correlation.	8
Q. 5(d)	Translocation and Inversion.	<u> </u>	! . !	8
Q. 5(e)	Genetic combining ability and specific combining	g ability	į.	. 8
Q. 6(a)	How will you prepare to prevent mortality and calamities and rehabilitation thereafter ?	morbidi	ty in livestock	during natural
Q. 6(b)	Prepare a layout for model dairy farm with 10 lac for 20 lactating goats?	ctating co	ows. How woul	d it be different
Q. 6(c)	How can you improve reproductive efficiency of summer season?	buffaloe	s at a commerc	cial farm during
Q. 7(a)	What do you mean by 'feeding standards'? Class brief the present day feeding standards.	ssify the	feeding standa	ards. Discuss in
Q. 7(b)	Write in brief the feeding of newborn calf from	birth to	3 months age.	10
Q. 7(c)	A feed contains 80% digestible organic matter and the Total Digestible Nutrients (TDN) content of the Total Digestible Nutrien			tract. Calculate
Q. 8(a)	Define 'Hardy-Weinberg Law'. Discuss the forces r	esponsib	le for changing	gene frequency.
Q. 8(b)	Explain the 'Law of Independent assortment' in from Mendelian Genetics?	dihybrid	crosses. How	it has deviated
Q. 8(c)	What are chromosomal aberrations? Give the ranimals.	most cor	nmon aberratio	ns observed in