Total 1	Number	of	Pages	16
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B.V.Sc. & A.H. (Fourth Professional) Examination - 2023
Veterinary Gynaecology and Obstetrics 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:
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:

- INSTRUCTIONS TO THE CANDIDATES The invigilator and the members of the Flying Squad are empowered to
- Candidate should read the question paper and the instructions carefully 1.
- before they begin to write answers.

 The candidate will not be allowed to leave the examination hall before one 2.
- Write on the cover page all the required entries correctly and get the 3.
- 4.
- Write legibly in the space provided for answer of each questions/subquestions according to instruction given in the question paper booklet 5.
- Do not write your name on any part of the question paper / answer booklet.
- Do not leave examination hall without handing over question paper / 6. 7.
- No leaves should be torn out of the question paper / answer booklet.
- Candidate attempting to use unfair means or talking to one another will be 8. 9.
- No written paper or book notes etc. should be brought to examination hall.
- Total number of pages of question paper / answer booklet be checked 10. 11.
- Candidate should not bring in any article other than pens and admit card. Use of Mobiles, calculators on any other electronic device in the 12. examination hall is strictly prohibited.

SPACE FOR ROUGH WORK

B.V.Sc. & A.H. (Fourth Professional) Examination – 2023 Veterinary Gynaecology and Obstetrics Paper-II

Time: Three Hours	Maximum Marks: 100 Weightage: 20
Unit-2 (Veterinary Obstetrics) Unit-3 (Veterinary Andrology and A.I.)	
 Attempt all questions Answer of all questions is to be written in the synthematical the question in question-booklet. Overwriting is not allowed in the objective type question. 	A STATE OF THE STA
Q.1 Fill in the blanks.	(20x0.5 = 10)
1.1 migration of e	embryo is important for
maternal recognition of pregnancy in mare.	
1.2 , is a metaboli	c disease of dairy cows
characterised by acute disturbance in calcium metabolis	78 (\$3) 1 1 2 4 1 2 2 2 2 3 3 1 2 2 2 3 3 1 2 2 3 3 3 1 2 3 3 3 3
during or within 72 hours of parturition.	V.
1.3 Slipping of the fetal membranes in cow is	best performed from
그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	
1.4 In ruminants,	. (portion of maternal
placenta) and cotyledons (portion of allantois chorion) of	
to form placentomes.	
1.5 Corpus luteum of pregnancy is termed as	
1.6 Fotal mummification in cattle is	type.
1.7 Brucella abortus causes abortion during	high this properties of the state
	adan A. A. Curbis I.A.
of pregnancy in cattle.	(route).
	Mile I a way a said
1.9 Prolapse or eversion of uterus is also called	4
	onomic nerve pathway.
1.11 Beroun	sweat glands and
muscle which help in thermo	입니다 전 이 이는 그리고 하는 것이 되었다. 그리고 그렇게 모르는 모든 사람들이 되었다.
1.12 Release of spermatozoa into the lumen of seminifero	us tubules is known as

	————Please write your Roll Number above this line —	
	Please write your Roll Number and	
	Acrosome in the spermatozoa contains acrosin,	
1.13	Acrosome in the spermatozoa contains derosas,	
	and other hydrolytic enzymes.	
1.14	and other hydrolytic enzymes. The middle piece of spermatozoa composed of	
	C. J. A. Indian	
1.15	u cale trophoblast are involved in immunologic	protection and
1.15	transfer of into maternal bl	ood circulation
		ice in the
1.16		
		pig control the
1.17	muscle in ruminants and	
	effective length of penis.	1 6 4
1.18	Excrete large amount of estrogens in stallions is produ	iced from the
1.19	Colonization of sperm occurs into	in the
	reproductive tract of ewe.	
1.20	Male sexual behaviour reflected as extended neck and upward	curling of upper
1.20	lip following sniffing of female genitalia and urine is called	in the second of the
Q.2	Choose the most suitable answer and write the number of the 1 or 2 or 3 or 4 in the space given against each sub question:	(20x0.5 = 10)
		i companier
2.1	Zonary type of placenta is present in one of the following	()
	1. Cow 2. Sow	C HEREPE
	3. Bitch	Sent augro Just
	4. Rodents	Tent mount
2.2	The preferred drug used for induction of parturition in mares 1. Cortisol	
	2. PGF2 alpha and its analogue	
	3. Oxytocin	
2.3	4. Estrogen	
2.3	Time of maternal recognition of pregnancy in sow is 1. 12 th Day	· · · · (cartest)
	2. 14 th /to 16 th Day	e el mult astil di
	3. 16 th to 17 th Day 4. 18 th Day	Section 1
2.4	In mares, highest level of eCG reaches at	
	1. 38-42 days after oxulation	()
	2. 00-65 days after ovulation	
	3. 120-150 days after ovulation	
	4. 150 days onwards after ovulation	

	ricase write your Roll Number above this line
2.5	
2.3	Earliest time to palpate the placentomes in a pregnant cow is 1. 60 days
	2. 80 days
	3. 105 days
2.0	4. 120 days
2.6	Ejaculate volume in Ram
	1. 0.8-1.2 ml
	2. 5-8 ml
	3. 60-100 ml
	4. 150-200 ml
2.7	Site of ejaculate deposition in pig
	1. Into Cranial end of vagina ()
	2. Onto cervix
	omo cervix
	3. Into relaxed cervical canal4. Into uterus
2.8	ALLO UICIUS
	Fertile life span of spermatozoa in the female genital tract of mare is ()
	- Up nouis
	19 12 HOULS
2.9	/ - 120 mms
di o	Which one is the only accessory sex gland present in all mammals ()
	/
21	2. Bulbourethral
	3. Prostate
2.10	4. Seminal vesicle
2.10	Mullerian inhibiting substance is responsible for suppression of 1. Mesonephric duet
	2. Paramesonephric duct
	3. Fetal androgen
2 1 1	4. Descent of the testis
2.11	Inhibin is produced from the
	1. Cuboidal cells
	2. Spermatogonia cells
	3. Leydig cells
	4. Sertoli cells
2.12	Temperature of lumen in the artificial vaging for 1 11
	Temperature of lumen in the artificial vagina for bull at the time of collection
	1. 50-55 °C
	2. 45-48 °C
	3. 40-42 °C
	4. 38-40 °C
2.13	The preferred method should be for same
	The preferred method should be for semen collection in wild animals () 1. Digital manipulation ()
	2. Artificial vagina
	3. Electroejaculation
	4. Dummy fitted with Artificial year
	4. Dummy fitted with Artificial vagina

Please write your Roll Number above this line		
Please write your roll.		
	(1
2.14 Mutation does not include		,
1. Repulsion		
2. Version		
3. Adjustment of extremities		
4. Forced traction 2.15 Which of the following is most important condition for an artif	icial vag	ina to
2.15 Which of the following is most important condition for an arm	()
collect the ejaculate in a bull		
1. Pressure		
2. Temperature3. Lubrication		
3. Lubricatión4. Weight		
9	()
1 Vr 241 4		
2. Flexible catheter with trans-rectal approach		
3. Flexible catheter with trans-vaginal approach		
4. Syringe with surgical approach		
2.17 Puberty in bull is considered when first ejaculate contains		
1. 10 million sperm with 10% progressive motility	,	
2. 50 million sperm with 10% progressive motility		
3. 10 million sperm with 50% progressive motility	•	
4. 50 million sperm with 50% progressive motility		
2.18 Sodium citrate dihydrate content (per 100 ml) in egg yolk citr	ate exte	nder is
and a sum of the state of the s	()
1. 100 mg per 100 ml		,
2. 3.028 gm per 100 ml		
3. 1.25 gm per 100 ml		
4. 2.9 gm per 100 ml		
2.19 Increased sperm concentration in a semen samples refers to	(.)
1. Polyzoospermia		
2. Hyperspermia	•	
3. Hypospermia		
4. Oligozoospermia		
2.20 Ultrasound transducer frequency for pregnancy diagnosis in sma	ll anima	ls
	.()
1. 3.0-5.0 MHz		
2. 3.5-5.0 MHz		
3. 5.0-7.5 MHz		
4. 7.5-10 MHz		
0.3 Attempt any ten out of the following touch		
Q.3 Attempt any ten out of the following twelve questions. An question should be in 2 to 3 lines. (10x2)	swer of	each
(10x2	2.0= 20)	
3.1 What is schistosomus reflexus condition?		
reflexus condition?		
얼마 아이들 때문에 가는 사람들이 가득하다는 물이 살았다. 그 사람들은 그 사람들이 없다.		
그래도 그리다 그는 소리에게 하는 것이 되었다. 그는 그는 그는 그는 그를 보는 것이 되었다. 그는 그는 그는 그는 그는 그는 그를 보는 것이 없다.		

	Please write your Roll Number above this line ——————
3.2	Explain transuterine migration of zygote/embryo with example.
3.3	Define superfetation.
3.4	What is a dog sitting posture of the fetus?
15	
3.5	Why ectopic pregnancy in sow can be invasive?
<u></u>	
 3.6	
 3.6 	
3.6	
	Clarify the role of estrogen produced by the swine blastocyst.
3.6	Clarify the role of estrogen produced by the swine blastocyst.

P
(a.9)
f each questi 6 x 6.0 = 36) cow?
1

	ease write your Roll Number above this line
	1
Describe the di	ifferent roles of placenta?
/	/
/	
	그는 그는 그렇게 고려져 있는닭(하다) 전 그렇게 하고 뭐
	7.0000
7.00	
What are the	conta that take place during first stage - function's
what are the ev	ents that take place during first stage of parturition in a cov
	The state of the s

Please write y	our Roll Number above this l	ine ——
		t d'an traci
	Sampatozoa transport in fem	ale reproductive trac
4 Mention about the stages	of spermatozoa transport in fem-	
of ewe.	/	
/		
/		
,		
	-	
	· /	
t motomal on	nugar of dustocia	
4.5 Enumerate maternal ca	duses of dystocia.	
	/	

Please write vo.	
Your Roll Number of	
Please write your Roll Number above this line	

1	
4.6 Describe the various developmental stages of spermatid transformation.	
randus developmental stages of spermatid transformation	
	•
Mark the same and	
att. Let's howing and its role	
4.7 Clarify the components of blood testis barrier and its role.	

	Please write your Roll Number above this line
-	
4.8	Enlist the structural components of penis in a boar.
	_/
/_	
/	
	Answer the following question in 1-2 pages (attempt any two). $(2x12.0 = 24)$
5.1	Write the possible causes, diagnosis and procedure to correct right side post-
	cervical uterine torsion using non-surgical method in a 7.5 months pregnant
	buffalo. (2+4+6)
5.2	Describe the conditions of retained placenta with etiology, sequelae and
	treatment. $(4+2+6)$
5.3	Give details about the categories of male infertility, causes and treatment of anyone condition. (4+4+4)