## **PUNJAB PUBLIC SERVICE COMMISSION**

Objective Type Test (November-2016) for Recruitment of Veterinary Officers in the Department of Animal Husbandry, Fisheries & Dairy Development, Govt. of Punjab

READ INSTRUCTIONS BEFORE FILLING ANY DETAILS OF ATTEMPTING TO ANSWER THE QUESTIONS.

Candidate's Name	Question
Father's Name	Booklet Series
Date of Birth DD MM YYYY  OMR Response Sheet No.	Category Code*  (*as given in the admit card)
Roll No.	Booklet Sr. No.
Candidate's Signature (Please sign in the box)	000017
INSTR	UCTIONS
<ol> <li>The candidate shall NOT open this booklet till the time told to do so by the Invigilation Staff. However, in the meantime, the candidate can read these instructions carefully and subsequently fill the appropriate columns given above in CAPITAL leiters. The candidate may also fill the relevant columns (other than the columns related to marking responses to the questions) of the Optical Mark Reader (OMR) response sheet, supplied separately.</li> </ol>	9. The candidates shall ensure that the responses are marked in correct manner and any adverse impact due to wrong marking of responses would be the responsibility of the respective candidate. The following are some of the examples of wrong marking of responses on the OMR response sheet.
<ol> <li>Use only blue or black ball point pen to fill the relevant columns on this page. Use of fountain pen may leave smudges which may make the information given by the candidate here illegible.</li> <li>The candidate shall be liable for any adverse effect if the information given above is wrong or illegible.</li> </ol>	10. The candidates, when allowed to open the question paper booklet, must check the booklet to confirm that the booklet has complete number of pages, the pages printed correctly and there are no blank pages. In case there is any such error in the question paper booklet then the candidate should immediately bring this fact to the notice of the invigilation Staff and obtain a booklet of the second confirmation.
<ol> <li>The candidate must fill all the columns given above on this page and sign at the appropriate place.</li> <li>Each candidate is required to attempt 100 questions in 120 minutes, except for visually impaired candidates, who would be given 40 minutes extra, by marking correct responses on the OMR sheet which would be supplied separately to the candidates</li> </ol>	Staff and obtain a booklet of the same series as given earlier.  11. The serial number of the new booklet should be entered in the relevant column of the CMR. The Invigilation Staff must make necessary corrections in their record regarding the change in the serial no. of question booklet.
The candidate must write the following on the OMRs sheet:     (a)Serial number of OMR sheet supplied to him/her for marking the responses to the questions.     (b)Serial number of the question booklet.     (c) Series of the question booklet. Failure to do so may lead to cancellation of candidature or any other action which the Commission may deem fit.	The question paper booklet has 14 pages.      Each question shall carry three marks.
7. The candidate should darken the appropriate response to the question by completely darkening the appropriate circle/oval according to his/her choice of response i.e. a, b, c or d in the manner shown in the example below.  a b c d	14. There are four options for each question and the candidate has to mark the MOST APPROPRIATE answer on the OMR response sheet using blue or black ball point pen.
8 Partly darkening the circle/oval on the OMR response sheet or using other symbols such as tick mark or cross would not result in evaluation of the response as the OMR scanner can only interpret the answers by reading the darkened responses in the manner explained in preceding paragraph. Darkening more than one circle/oval as response to a question shall also be considered as wrong answer.	There is no negative marking for wrong answers or questions not attempted by the candidate.

		1	. Select	tion on the basis of individuality is most important, when h <sup>2</sup> of the trait is:
			a	Low
			b)	Medium
			c)	High
			d)	None of the above
		2.	A poly	phenol present in cotton seeds which interferes with utilization of metal ions is:
			a)	Propofol Propofol
			b)	Gossypol
			c)	Mimosine
			d)	Thioglucoside
1		3.	Dental	formula (ICPM) for permanent teeth in male horse is:
			a)	3133/3133
			b)	3033/4122
			c)	0030/3333
			d)	3033/4033
		Á	Which	of the faller for
		0.7203	a)	of the following compounds from smoke contribute to smoky flavor of meat:
			b)	Alcohol
			c)	
	504			Formaldehyde
			u)	Caproic acid
	ν	5.	Which o	of the following is an abnormal constituent of urine:
			a)	Glucose
				Urea
			c)	Creatinine
				Bile pigments
		6.	Which o	f the following is a long acting tetracycline:
				Oxytetracycline
				Doxycycline
			c) 1	Methacycline
			d) (	Both (a) and (c)
		7. (	Boiled ric	ce grain type of segments are observed during infectation with

a) Taenia b) Hymenolepis c) Moniezia

d) None of the above

- 8. In order to collect blood sample for estimation of glucose, the following is added as preservative in order to ensure that the level of glucose does not go down with passage of time:
  - a) Ethylene Diamine Tetra acetic acid
  - b) Sodium citrate
  - c) Sodium fluoride
  - d) Heparin
- 9. What is the right time to perform post-mortem of the animal suspected to be affected with anthrax:
  - a) Immediately after the death of animal
  - b) Within 6 hours of the death of animal
  - c) Within 24 hours of the death of animal
  - d) None of the above
- 10. Lack of blood supply is known as:
  - a) Emboli
  - b) Thrombus
  - c) Both (a) and (b)
  - d) Ischemia
- 11. The SPC in pasteurized milk per ml should not exceed:
  - a) 3,000
  - b) 50,000
  - c) 30,000
  - d) 1,00,00
- 12. Which of the following is not an example of a non-random sampling technique?
  - a) Purposive sampling
  - b) Quota sampling
  - c) Convenience sampling
  - d) Cluster sampling
- 13. Peg cells are found in:
  - a) Oviduct
  - b) Vagina
  - c) Uterus
  - d) Ovary
- 14. White diarrhoea, pasting of feathers of vent region, shrill crying while voiding droppings in young chicks are the features of:
  - a) Fowl typhoid
  - b) Pullorum disease
  - c) Fowl cholera
  - d) Fowl paratyphoid

15. Reciprocal	apparatus	operates	in:
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- a) Hind limbs
- b) Fore limbs
- c) All limbs
- d) None of the above
- 16. If an animal consumes 5 kg Dry matter and excretes 6 kg of faeces with 50% moisture, the digestibility coefficient will be:
  - a) 40%
  - b) 50%
  - c) 60%
  - d) None of the above
- 17. Cholesterol gives rises to all of the following except:
  - a) Bile acids
  - b) Sex hormones
  - c) Steroid hormones
  - d) Bile pigments
- 18. Microscopic agglutination test (MAT) has been widely used as the reference test for antibody detection for which of the following diseases:
  - a) Listeriosis
  - b) Rabies
  - c) Leptospirosis
  - d) Influenza
- 19. The brown dog tick of dog is:
  - a) Boophilus tick
  - b) Rhipicephalus tick
  - c) Hyalomma tick
  - d) Dermacentor tick
- 20. Turkey egg appearance of kidneys, button ulcers in intestine in pigs are pathognomic lesions of:
  - a) Swine fever
  - b) Swine erysipelas
  - c) Salmonellosis
  - d) Auzesky's disease
- 21. The principal constituent of the purulent exudate is:
  - a) Macrophage
  - b) Lymphocyte
  - c) Neutrophils
  - d) Eosinophils

a	a) Orthodontics	
b	p) Periodontics	
c)	) Endodontics	,
d)	Exodontics	
24. Denta	al formula (ICPM) for permanent teeth in ox is:	
a)	) 0033/4033	
b)		
c)		
d)		
25. 'Veiny	y' leather is a defect caused by:	
a)	Imperfect bleeding	
b)		
c)		
d)		
26. Protein	ns in milk are present in one of the following form:	
a)	Emulsion	
b)		
c)	Colloidal	
d)	Suspension	
27. Which o	of the following vitamins is having hormone like properties?	
a)	Vitamin A	
b)	Vitamin E	
c)	Vitamin D	
d)	Vitamin C	
28. In physic	iological quantities thyroid hormones are:	
a) /	Anabolic Anabolic	
	Catabolic	
	Both of the above	
	None of the above	
	A-4	

23. The branch of dentistry concerned with irregularities of teeth and mal-occlusion:

22. Efficacy of pasteurization is judged by:

a) Dye reduction test

c) Amylase testd) Malachite test

b) Alkaline phosphatase test

- 29. Brucellaabortus need to be incubated in an atmosphere containing which of the following for its isolation:
  - a) 5-10 % of CO2
  - b) Erythritol
  - c) 5-10% nitrous oxide
  - d) None of the above
- 30. Which of the following is known as secretory antibody?
  - a) IgM
  - b) IgA
  - c) IgG
  - d) IgE
- 31. In cyanide poisoning, the color of venous blood becomes:
  - a) Bright cherry red
  - b) Brown
  - c) Chocolate
  - d) Both (ii) and (iii)
- 32. Swimmers itch is caused by:
  - a) Ancylostomas
  - b) Ascarids
  - c) Taenia
  - d) Schistosomes
- 33. Drug of choice for treatment of amphistomosis is:
  - a) Triclabendazole
  - b) Oxyclozanide
  - c) Praziquantel
  - d) All of the above
- 34. Presence of albumin in urine indicates:
  - a) Injury to glomeruli
  - b) Tubular injury
  - c) Both of the above
  - d) None of the above
- 35. Diabetes insipidus is characterized by:
  - a) Polyuria
  - b) Polydipsia
  - c) Both of the above
  - d) None of the above

	36	All of	the following except one are the tests for mastitis:
	-	a	
		b	
		1	White side test
		d)	
		u)	Bromothymol blue test
	37	Douri	ne is caused by:
			Trypanosomaequiperdum
			201 7. 0
		b)	The state of the s
		c)	
		d)	Trypanosomabrucei
	38.	Wor	ld Rabies Day takes place each year on:
			September 28
		200	September 08
			September 18
		d)	April 28
100	39.		ention of cruelty to animals Act and Glanders & Farcy Act were enacted in:
		100	1960 & 1899
		b)	1940 & 1898
		c) d)	1965 & 1857 1997 & 1947
		uj	1557 & 1547
-	40.	Intro	duction of Pseudomonas aeruginosa through intramammary antibiotic preparations is:
		a)	latrogenic infection
		b)	Cold mastitis
		c)	Inoculation
		d)	None of these
2	41.	The	most common method employed for semen collection in dog is:
		a)	AV method
		b)	Digital Manipulation
		c)	Electroejaculation
		d)	None of the above
4	12.	Zoon	notic pathogens originate from:
		a)	Animals
		b)	Food and animals
		c)	Both of above
		d)	None of above
1	13.	An in	sternational bulletin of animal diseases is published by:
			OIE
		b)	World Veterinary Association
		10	MHO

44.	Pre-c	cervical uterine torsion is diagnosed by:					
	a) Per vaginal						
	b)	Per rectal					
	c)	Abdominal ballotment					
		Through radiography					
45.	Rho	odents play important role in transmission of:					
	а	) FMD					
		) Plague					
		) Scrub typhus					
	d						
46.	The	most appropriate, easy and economic method of pregnancy diagnosis in bovines is:					
	а	Ultrasonography Ultrasonography					
	b						
	c	Rectal examination					
	d	Progesterone assay					
47.	The	most critical temperature which may cause maximum loss of sperms during freezing					
	DELV	veen:					
		37°C to 4°C					
		4°C to -1°C					
		5°C to - 15°C					
	d)	-15°C to -30°C					
48.	Exog	enous oxytocin has luteolytic action in:					
	a)	Bitch					
	b)	Cow & Ewe					
	c)	Cattle & Sow					
	d)	Cow & Doe					
49.	In a l	nerd in which the brucellosis is endemic; an infected cow:					
	a)	Aborts only once after exposure					
	b)	Subsequent gestations appear normal					
	c) d)	All of above					
50.	The c	dermatophyte that does not give fluoresce under Wood's light include:					
	a)	Microsporum equi					
	b)	Microsporum canis					
	c)	Microsporum distortum					
	d)	Microsporum audounii					
51.	An ou	tbreak of disease from drinking water well is an example of:					
	a)	Propagating epidemic					
	b)	Repeated exposure					
	c)	Seasonal trend					

d) All of above

	-	
	0	Food accuracy for all
	0	Note of above
53.		and the pus, situated in epidermis is called:
	2)	Alteres
	- 6]	Carbunde
	10	Ache
	4	Pustule
54.	Maio	r side effects of Vincristine treatment are:
-	a)	Myelosuppression
	b)	Gastrointestinal disturbances
	c)	Both of above
	d)	
	4/	Hone or above
55.	Haen	nolytic anaemia may be sequalae of:
	a)	Babesiosis
	b)	Leptospirosis
		Phosphorus deficiency
	d)	All of the above
56.	Thes	helf life of pasteurized milk kept at less than 8°C is:
	a)	1-2 days
	b)	3-5 days
	c)	6-8 days
	d)	10-15 days
57.	In oh	ligatory cyclozoonoses life cycle of agent is completed in:
7/1	a)	Man
	b)	Mosquitoes
	c)	Ticks
	d)	None of above
	Land.	
58.		okinin, a protein which influences blastocyst formation is secreted by uterus of:
	a)	Cattle
	b)	Sheep
	c)	Goat
	d)	Rabbit
59.	Macr	oepidemiology is concerned with the of disease and the social, economic and
	politi	ical factors that influence them
100	a)	International pattern
	b)	National pattern
	c)	Forecasting
	d)	Disaster management
	7.3	
		A 6
		A-8

52.

				en important in a	vian influenza im	munity is:
60.	Major	viral	surface antig	in important in a		
	al	Haei	magglutinin			
			raminidase			
	c)	Fusi	on spikes			
	d)	Nor	e of above			
64	The n	erio	neral nerve di	sorder is associate	ed with:	
61.	a)	Triv	valent arsenic			
	b)		ntavalent arse	nic		
	c)	Or	ganic arsenica	s		
	4)	Are	ine			
				in a compa	h af the followin	g surgical approach:
62.	Castr	atio	n in a male do	g is done by which	n of the follows.	
04.	a)		e-scrotal incis	on		
	hi	Sc	rotal incision			
	cl	Po	ost-scrotal inc	sion		
	d)		one of above			
20	Calc	ium	channel bloc	er is:		
63.	Call	N	ifedipine			
	h	, ,	iltiazem			
			/erapamil			
		1 4	All of these			
	C	,	MI TO NOT SEE		nimals may show	sequels like:
64	Fol	lowi	ng recovery f	om FMD, some a	minais may	
	2	16	Panting			
	i	b)	Over growth	of hair		
		c)	Anaemia			
		d)	All of above			
	25.00	G	t teature th	at provides defer	se against helmi	nthes is:
6	5. Ar		ody isotype to	ac province		
		a)	IgA			
		b)	IgM			
		c)	lgG			
		d)	IgE		142	havings:
	66. T	he c	rug of choice	for the treatmen	t of pyometra in	DOVINES.
1		a)				
		b)		e		
			PGF <sub>2a</sub>			
		d)	The same of the sa			
					av are restricted	to:
	67.	In p	igs, the lesion	of chronic anthr	dx die lestituses	
		a	Cervical lyr	nph nodes		

Tonsils

d) All of above

Surrounding tissues

b)

c)

68.	The	following test is most sensitive for detection of ketone bodies in urine:
	a)	Bendicts test
	b)	Benzidine test
	c)	Roberts test
	d)	Rothera's test
69.	Carb	aryl is an example of:
	a)	OC insecticide
	b)	Carbamate
	c)	OP insecticide
	d)	Pyrethroid
70.	In so	ws, maternal recognition of pregnancy is mainly due to the action of:
	a)	Interferon tau
	b)	Oxytocin
	c)	Estrogen
	d)	Prostaglandins
71.	Agglu	tination is a serological reaction in which?
	a)	Antigen is in soluble form
	b)	Antibody is in particulate form
	c)	Antigen is in particulate form
	d)	Antibody is in soluble form
72.	Stand	ard treatment of acetonemia in dairy animals is:
	a)	50 % dextrose, glucose precursor and corticosteroids
	b)	Insulin and corticosteroid
	c)	Chloral hydras, cynocobalamine and cobalt
	d)	Single infusion of 50 % dextrose
73.	Taq po	olymerase an enzyme used in PCR requires:
	a)	Mg++
	b)	Temperature of 72°C
		pH 8.4
	d)	All of above
4.	Bromh	exine is:
	a)	Mucolytic
		Antitussive
	c)	Analeptic

- b) Ephemeral fever

d) None of these

- c) Rinderpest
- d) Peste des petits ruminants

				12/CV 10 1.445NM	22
		76.	Chronic h	ypertrophy of the horn producing tissues of the foot in h	norses is called:
			a) Lar	ninitis	
			b) Co		
			c) Su	bsolar abscess	
			d) Ca	nker	
		77.	A food bo	orne outbreak is an example of:	
		2000	a) Po	int source epidemic	
				opagating epidemic	
			c) Pe	riodic fluctuation	
			d) No	one of above	
		78.	Grossly t	he placentation in bitches is:	
			a) Di		
			b) Zo	nary	
				scoid	
			d) No	one of the above	
		79.	The mil	king equipments should preferably be made up of:	
			a)	Galvanized iron	
			b)		
			c)	Iron	
			d)	None of the above	
4			77.17.47	the state of the	owen is present in the
		80.	In deve	loping follicles of hen, the chromosomal material of the	Ovum is present in the
<b>1</b>			a)		
	190		b)		
			c)	Blastodisc	
			d)	Yellow yolk	
		81. 0	One of the	following is not included a livestock:	
			а	Turkey	
			b	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
			c	Kangaroo	
			d	Dog	
		02	Davidor n	re often administered as:	
		82.			
				Drenches	
			b		
				Electuary	
			d	) Pessary	

demarcation between two colours is called:  a) Pie bald b) Skew bald c) Whole coloured d) Roan  84. Frequency of two alleles in parents is 'p' and 'q'; then proportion of heterozygotes in progeny will be:  a) 2pq b) p² c) q² d) p+q  85. Selection differential depends on all except:  a) Sex of the animal b) Proportion selected c) Heritability d) Phenotypic standard deviation  86. Which of the following about heterosis is not true? a) Term coined by G H Shull b) Depends on difference of gene frequency c) Might be caused by Overdominance d) Independent of degree of dominance  87. Energy requirement (Kcal/Kg feed) in broiler finisher ration as per BIS, 2007 is: a) 2800 b) 2900 c) 3100 d) 3200  88. Which of the following is not an essential amino acid for poultry: a) Arginine b) Glicine c) Valine d) Glutamate		omprising of large irregular patches of black and white with well defined line of
b) Skew bald c) Whole coloured d) Roan  84. Frequency of two alleles in parents is 'p' and 'q'; then proportion of heterozygotes in progeny will be:  a) 2pq b) p² c) q² d) p+q  85. Selection differential depends on all except:  a) Sex of the animal b) Proportion selected c) Heritability d) Phenotypic standard deviation  86. Which of the following about heterosis is not true?  a) Term coined by G H Shull b) Depends on difference of gene frequency c) Might be caused by Overdominance d) Independent of degree of dominance  87. Energy requirement (Kcal/Kg feed) in broiler finisher ration as per BIS, 2007 is: a) 2800 b) 2900 c) 3100 d) 3200  88. Which of the following is not an essential amino acid for poultry: a) Arginine b) Glicine c) Valine	demarcation	between two colours is called:
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c) Valine	a)	Arginine
	b)	Glicine
	c)	Valine
u) Giutalilate	d)	Glutamate
89. The protein accounts for about average% of total protein in the skeletal muscle:	89. The protein a	ccounts for about average% of total protein in the skeletal muscle:
a) 13		
b) 15	2370	
c) 19		
d) 23		
	4/	

- 97. The mineral supplement in artificial diet of fishes should be:
  - a) Nii
  - b) 1-2%
  - c) 4-5 %
  - d) Varies according to geographical distributions
- 98. Most of the draught breeds of cattle were developed in ----- region of India
  - a) Dry northern region
  - b) North eastern region
  - c) Southern region
  - d) Coastal region
- 99. Hinny is the cross between:
  - a ) Male horse (Stallion) X Female ass (Jennet)
  - b) Male Ass (Jack) X Female Horse (Mare)
  - c) Male Horse (Stallion) X Female zebra
  - d) Female Horse (Stallion) X Male zebra
- 100. Which of the following is not a measure of reproductive efficiency?
  - a) Fertility index
  - b) Wilcox method of BE
  - c) Osborne index
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