083/2022

Maximum: 100 marks

Time:	1 hour	and 30	minutes
ita avail	lability	of milk	in India

1.	_		e basic animal husbandry statistics 201 ar 2018-19 is :	9, the	e per capita availability of milk in India
		(A)	337 grams per day	(B)	375 grams per day
		(C)	355 grams per day	(D)	394 grams per day
2.	Floc	k is a	group of:		
	(i)	shee	ep		
	(ii)	goat			
	(iii)	turk	ey		
		(A)	only (i) and (ii)	(B)	only (i) and (iii)
		(C)	Only (ii) and (iii)	(D)	all of these (i, ii, and iii)
3.	Whi	ch am	ong the following is not true with respe	ect to	an organic farm?
		(A)	Mostly a self-contained system	(B)	Less area is required
		(C)	Yield will be low	(D)	Animal welfare is important
4.		_	in which different animals and crops and benefit each other:	are	incorporated in such a way that they
		(A)	Mixed farming	(B)	Diversification farming
		(C)	Integrated farming	(D)	Organic farming
5.	Your	ng fen	nale pig is called :		
		(A)	Hog	(B)	Poult
		(C)	Gilt	(D)	Pullet
6.	A br	eed of	f cattle which is also known as Kathiaw	ari :	
		(A)	Gir	(B)	Deoni
		(C)	Tharparkar	(D)	Kankrej
7.	The	best b	puffalo breed in terms of milk productio	n is:	
		(A)	Murrah	(B)	Jaffarabadi
		(C)	Surti	(D)	Nili Ravi
8.	Bree	ed of p	sig coloured black with six white spots :		
		(A)	Tamworth	(B)	Duroc
		(C)	Hampshire	(D)	Berkshire
A			3		

9.	Pea comb is seen in:							
	(i)	Min	orca					
	(ii)	Cori	nish					
	(iii)	Bral	hma					
		(A)	only (i) and (ii)	(B)	only (i) and (iii)			
		(C)	only (ii) and (iii)	(D)	all of these (i), (ii) and (iii)			
10.	Popular meat breed of duck with creamy white plumage, bright orange bill, legs and feet:							
		(A)	Emperor duck	(B)	Flying duck			
		(C)	Penguin duck	(D)	Kuttanadan duck			
11.	Whi	ch of	the following statements regarding ani	mal id	lentification is not correct?			
		(A)	A microchip implant uses passive RF	ID tec	hnology			
		(B)	Tattooing is a preferable method of ic	lentifi	cation in buffaloes			
		(C)	(C) Freeze branding can be done using dry ice					
		(D)	(D) Usually a wing band applied in chick need not be replaced as it grows					
12.	Regarding the dentition of an adult cattle, which among the following statements are not correct:							
	(i) There is a dental pad on lower jaw							
	(ii)	The	number of cheek teeth is 12					
	(iii)	Can	ines are situated behind the incisors					
		(A)	(i) and (iii) only	(B)	(ii) and (iii) only			
		(C)	(i) and (ii) only	(D)	all of these (i), (ii), and (iii)			
13.	What will be the approximate age of a cow with four temporary incisors and four permanent incisors?							
		(A)	2 years	(B)	5 years			
		(C)	4 years	(D)	3 years			
14.	For lifting the hind limb of cattle, pass a strong smooth pole in between the two hind limbs in such a way that :							
		(A)	The pole should be in front of the hoc	k joint	of the limb to be lifted			
		(B)	The pole should be behind the knee jo	oint of	the limb to be lifted			
		(C) The pole should be in front of the stifle joint of the limb to be lifted						
		(D)	None of these					
15.	Whi	ch on	e of the following is not used for whole	body r	retraining?			
		(A)	Squeeze cage	(B)	Tranquilization			
		(C)	Halter	(D)	Casting			

16.	A cow is presented with a thorn pierced at the medial aspect of the gum near cheek teeth. Which of the following can be used to examine the area for removing the thorn?								
	((A)	Wooden mouth gag	(B)	Drink water's mouth gag				
	((C)	Linton's mouth gag	(D)	All of these				
17.	The te	erm '	'ventral' indicates :						
	((A)	Front region of animal	(B)	Hind region of animal				
	((C)	Upper surface of the body	(D)	Under surface of the body				
18.	The pa	atell	a in cattle is present at the :						
	((A)	Fetlock joint	(B)	Knee joint				
	((C)	Stifle joint	(D)	Hock joint				
19.	The m	nuscl	les are attached to the bones by :						
	((A)	Tendon	(B)	Cartilage				
	((C)	Ligament	(D)	Capsule				
20.	Which	of t	the following statements is not true with	h resp	pect to ruminant stomach?				
	((A)	The primary function of omasum is to remove water by about 50%						
	((B)	B) Pylorus is the terminal part of rumen						
	((C)	Sharp foreign objects in the reticulum may penetrate into the heart easily						
	((D)	None of these						
21.	Which of the following statements is correct with respect to the reproductive system of bull?								
	((A)	Leydig cells produce testosterone						
	((B)	Pampiniform plexus aids in temperatu	are co	ntrol of testes				
	((C)	Vas deferens pass through spermatic	cord					
	((D)	All of these						
22 .	Corpu	ıs lut	teum is formed during :						
	((A)	Oestum	(B)	Metoestrum				
	((C)	Dioestrum	(D)	Proestrum				
23.	Regar	ding	the mammary system of cow, which of	the f	ollowing statements are true:				
	(i) '	The	udder is a modification of sweat gland						
	(ii)	The alveoli are drained by terminal ducts							
	(iii)	Milk	secretion is a continuous process						
	((A)	Only (i) and (ii)	(B)	Only (i) and (iii)				
	((C)	Only (ii) and (iii)	(D)	All of these (i), (ii) and (iii)				

24.	Which of	the following statements abou	it female reprod	luction is correct?			
	(A)	Pregnancy can be diagnosed	by per vaginal	examination			
	(B)	Cow's uterus is bicornuate					
	(C)	Ovarian follicles secrete pro	gesterone				
	(D)	None of the above					
25 .	Regarding milking of cows, which of the following is not true:						
	(A)	Full hand milking simulates	s suckling by ca	lf			
	(B)	Knuckling is a faulty metho	d of milking				
	(C)	Stripping is used in high yie	lding cows				
	(D)	None of the above					
26.	According housing is		er of cows that	can be housed in a group under loose			
	(A)	40	(B)	50			
	(C)	20	(D)	30			
27.	Which is system:	true with respect to the cas	ge system of re	earing poultry compared to deep litter			
	(A)	Lesser nuisance from flies					
	(B)	More welfare to birds					
	(C)	Less chance of egg breakage					
	(D)	Less labour is required for n	nanagement				
28.	Regarding	g vermicomposting which of th	ne following sta	tement is wrong :			
	(A)	Vermicast is low in pathogen	nic fungi and ba	acteria			
	(B)	It is an odourless, anaerobic	process				
	(C)	Earthworms ingest about 75	5% of their body	weight in a day			
	(D)	(D) The pit for vermi composting should be shallow					
29.	In a poulthan:	try farm the distance between	n a grower hous	se and a layer house should not be less			
	(A)	45 m	(B)	The width of a house			
	(C)	30 m	(D)	9 m			
30.		the following intensive syste e comfortable for the birds?	em of rearing	poultry produce clean eggs and at the			
	(A)	Cage system	(B)	Deep lifter system			
	(C)	Slat system	(D)	None of these			
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31.	Which one	e of the following breeds is not suitable	for ba	ackyard rearing?
	(A)	Athulya	(B)	Austrowhite
	(C)	Gramapriya	(D)	Rhodowhite
32.	Goat bree	d having higher growth rate and adapta	ability	y under Kerala's conditions :
	(A)	Crossbred Saanen	(B)	Selected Malabari
	(C)	Boer	(D)	All of these
33.	Bucks ma	y be used for service at an age of:		
	(A)	6-7 months	(B)	8-10 months
	(C)	10-12 months	(D)	7-8 months
34.	Minimum	dry period required for goats is:		
	(A)	15 days	(B)	60 days
	(C)	30 days	(D)	45 days
35.	A disease	of goats caused by Clostridium perfring	gens :	
	(A)	PPR	(B)	Enterotoxaemia
	(C)	CCPP	(D)	Lock jaw
36.	Kids belov	w 30 days of age should be given whole	milk a	at the rate of :
	(A)	$\frac{1}{6}^{\text{th}}$ of their body weight	(B)	$\frac{1}{10}$ th of their body weight
	(C)	$\frac{1}{8}$ of their body weight	(D)	$\frac{1}{12}$ th of their body weight
37.	Which of t	the following is not a part of the digesti	ve sys	stem of chicken?
	(A)	Stigma	(B)	Cloaca
	(C)	Proventriculus	(D)	Crop
38.	Which am	ong the following statement is true in o	case o	f chicken?
	(A)	Lungs of chicken expand only slightly		
	(B)	Chicken have no diaphragm		
	(C)	The lungs are supplemented by 9 air s	sacs	
	(D)	All of these		
39.	Regarding	g the reproduction in hen, which of the	follow	ing statement is not correct:
	(A)	Only the right ovary functions in adul		
	(B)	Oviduct is a thin tube occupying the le	eft sid	le of abdominal cavity
	(C)	Both of the above		
	(D)	None of these		

40.	A good pr	oducing layer will be :						
	(A)	Late and slow moulter	(B)	Late and fast moulter				
	(C)	Early and fast moulter	(D)	Medium moulter				
41.	The albur	men of egg is formed in :						
	(A)	Uterus	(B)	Magnum				
	(C)	Isthmus	(D)	Ovary				
42.	Selection	method of choice for breeding bull	s of dairy o	cattle is:				
	(A)	Progeny testing	(B)	Individual selection				
	(C)	Family selection	(D)	Pedigree selection				
43.	Which am	nong the following statements is no	ot true?					
	(A)	In random selection all animals	get equal o	opportunity for breeding				
	(B)	Body weight can be improved by	individua	l selection				
	(C)	In out crossing the mating pair k	pelongs to	the same breed				
	(D)	None of these						
44.	The cryop	rotective agent for sperms in froze	en semen i	s:				
	(A)	Fructose	(B)	Tris buffer				
	(C)	Glycerol	(D)	Sodium citrate				
45.	Service pe	eriod is:						
	(A)	(A) The time taken for gravid uterus to return to non-gravid stage after parturition						
	(B)	The period from a parturition to	the next s	uccessful insemination				
	(C)	The period between two successive parturitions						
	(D)	The period from drying up of milking to parturition						
46.	The type	of placenta in sow is:						
	(A)	Cotyledonary	(B)	Discoid				
	(C)	Zonary	(D)	Diffuse				
47.	Which of	the following is not involved in ET	T?					
	(A)	Transfer of ova	(B)	Oestrus synchronisation				
	(C)	Insemination of donor	(D)	Super ovulation				
48.	Chances	of infertility due to anatomical cau	ises may b	e minimised by :				
	(A)	Preventing nutritional deficience	ies					
	(B)	Eliminating venereal diseases						
	(C)	Avoiding inbreeding						
	(D)	Proper timing of AI						

49.	• Which of the following is not true about the recto-vaginal method of Al compared to specu method?			nal method of Al compared to speculum					
		(A)	Can be done in small animals easily						
		(B)	Less disturbance to animal						
		(C)	Pregnancy can be ruled out before AI						
		(D)	Chance of injury to genital tract will b	e less					
50.	Rega	arding	g calf starter, which among the following	g is co	orrect:				
	(i)	Calf	-starter should contain about 20 per cer	nt DC	P and 70 per cent TDN.				
	(ii)	An i	deal calf starter can be used as a replac	emen	t for milk				
	(iii)	Feed	ling calf starter can be stopped at an ag	e of 6	months				
		(A)	Only (i) and (ii)	(B)	Only (i) and (iii)				
		(C)	Only (ii) and (iii)	(D)	All of these (i), (ii) and (iii)				
51.	Whi	ch is r	not true about the summer managemen	t of ca	attle?				
	(i)	Anir	nals may be let out for grazing for the w	hole	day				
	(ii)	The	height of sidewall should exceed that of	the a	nimals				
	(iii)	Redu	ace the energy and protein content of fe	ed					
		(A)	Only (i) and (ii)	(B)	Only (i) and (iii)				
		(C)	Only (ii) and (iii)	(D)	All of these (i), (ii) and (iii)				
52.	The	recom	nmended yearly percentage of herd repla	aceme	ent in cattle is :				
		(A)	10	(B)	15				
		(C)	20	(D)	25				
53.	Niac	in def	ficiency in dogs lead to :						
		(A)	Nutritional roup	(B)	Pellagra				
		(C)	Black tongue	(D)	Muscular dystrophy				
54.	Gras	ss stag	ggers in cows occurs due to the deficienc	ey of:					
		(A)	Magnesium	(B)	Zinc				
		(C)	Copper	(D)	phosphorus				
55.	Drou	ight a	nd shade tolerant fodder crop suitable t	for cu	ltivation in saline soil of Kerala :				
		(A)	Hybrid napier	(B)	Congo signal				
		(C)	Para grass	(D)	Guinea grass				
56.	Rega	arding	silage making, which is not true:						
		(A)	The dry matter content of crops for en	siling	should be $30 - 35\%$				
		(B)	The butyric acid formed by anaerobic	ferme	ntation preserve the silage				
		(C)	Adult cattle can be fed $10-15~\mathrm{kg}$ of si	lage p	oer day				
		(D)	Urea added at the level of 1% help to i	mpro	ve nitrogen content				

57.	Considering TMR feeding, which of the following statements is not correct:							
	(A)	(A) Gives better feed efficiency by providing more stable rumen environment						
	(B)	Helps to meet additional amino acid requirement for high production						
	(C)	Avoid selective feeding of ingredie	ents					
	(D)	Reduces digestive and metabolic p	oroblems					
58.	Sugars and starch come under which proximate principle:							
	(A)	Nitrogen free extract	(B)	Ether extract				
	(C)	Total ash	(D)	Crude fibre				
59.		g to thumb rule, daily pregnancy ranths of pregnancy is:	atio to be	given to cross bred cattle for the las				
	(A)	1 kg of concentrate	(B)	1.25 kg of concentrate				
	(C)	1.5 kg of concentrate	(D)	1.75 kg of concentrate				
60.	White sco	our in calves is caused by :						
	(A)	$Staphylococcus\ aureus$	(B)	$Pasteurella\ multocida$				
	(C)	Escherichia coli	(D)	Salmonella pullorum				
61.	A disease of cattle characterized by sudden appearance of high fever, shifting lameness enlargement of peripheral lymph nodes and reduction in milk yield caused by Rhabdo virus:							
	(A)	Para tuberculosis	(B)	Rinderpest				
	(C)	FMD	(D)	Ephemeral fever				
62.	Preferred site of deposition of frozen semen for Al is:							
	(A)	Uterine cornua	(B)	At the external os of cervix				
	(C)	Near the internal os of cervix	(D)	Vagina				
63.	Total spa	ce requirement per grower/fattener	pig is:					
	(A)	$1.5\mathrm{m}^2$	(B)	$2\mathrm{m}^2$				
	(C)	$3.5\mathrm{m}^2$	(D)	$5\mathrm{m}^2$				
64.	Which is	correct regarding breeding boars?						
		5 months of age the body weight sho	uld be mi	nimum 60 kg				
		quires 2—2.5 kg concentrate per 100						
		ars should be changed once a year to						
	(A)	Only (i) and (ii)	(B)	Only (i) and (iii)				
	(C)	Only (ii) and (iii)	(D)	All of these (i), (ii) and (iii)				
	(5)		(2)	2 01 01 010 (1), (11) and (111)				

65 .	Rega	arding	g the external morphology of chicke	en, cape is	the region :		
		(A)	In between hackle and back	(B)	In between back and saddle		
		(C)	In between saddle and sickle	(D)	In between fluff and shank		
66.	Mele	eagris	gallopavo is the scientific name of	:			
		(A)	Duck	(B)	Chicken		
		(C)	Turkey	(D)	Quail		
67.	_	er th 2019		es -2019, to	otal poultry population in India for the		
		(A)	936.4 millions	(B)	851.8 millions		
		(C)	729.2 millions	(D)	648.8 millions		
68.		_	to BIS specifications for poultry k feed should be:	feed, min	imum metabolisable energy content of		
		(A)	2600 Kcal/kg	(B)	3000 Kcal/kg		
		(C)	2500 Kcal/kg	(D)	2800 Kcal/kg		
69.	Rest	ricte	l feeding is practiced in :				
	(i)	Broi	iler breeders				
	(ii) Growers						
	(iii)	Lay	ers				
		(A)	Only (i) and (ii)	(B)	Only (i) and (iii)		
		(C)	Only (ii) and (iii)	(D)	All of these (i), (ii) and (iii)		
70.	The optimum feed efficiency for broilers ranges between:						
		(A)	1.5 - 1.7	(B)	1.8 - 2.0		
		(C)	2.0 - 2.2	(D)	None of these		
71.		ong tl ken :	ne following types of waterers w	hich one	will provide the most clean water to		
		(A)	Fountain type waterer	(B)	Cup waterer		
		(C)	Drip nipples	(D)	Hanging waterer		
72.			quantity of feed required to rear ately:	a broiler c	chick from day old to 6 weeks of age is		
		(A)	$2.0~\mathrm{kg}$	(B)	$6.0~\mathrm{kg}$		
		(C)	$4.7~\mathrm{kg}$	(D)	$3.5~\mathrm{kg}$		

73.	Hatche	ery	operations does not include :		
	(A	A)	Dubbing	(B)	Sexing
	((C)	Setting	(D)	Brooding
74.	Culling	g sh	ould be practiced in :		
	(<i>E</i>	A)	Chicks and layers	(B)	Growers and breeders
	((C)	Both (A) and (B)	(D)	None of these
75.	How ca	an y	ou reduce the summer stress in a deep	litter	poultry house?
	(i) S	bra	y cool and clean water in shed		
	(ii) R	ledu	ace thickness of built up lifter		
	(iii) G	live	ascorbic acid supplement		
	(<i>E</i>	A)	Only (i) and (ii)	(B)	Only (i) and (iii)
	((C)	Only (ii) and (iii)	(D)	All of these (i), (ii) and (iii)
76.	The ea	sies	t method of mating used in breeder ch	icken	when pedigree records are not kept :
	(A	A)	Flock mating	(B)	Stud mating
	((C)	Artificial insemination	(D)	Pen mating
77.	Regard	ling	nutritional value of egg :		
	(4	A)	Tinted egg is better than white shelle	d egg	
	(I	B)	Brown shelled egg is better than tinte	d egg	
	((C)	Both of these		
	(I	D)	None of these		
78.	The tra	ansı	parent membrane enclosing the yolk of	egg:	
	(2	A)	Chalaziferous layer	(B)	Vitelline membrane
	((C)	Follicular membrane	(D)	Cuticle
79.	Hatchi	ng e	eggs may be candled before incubation	to fin	d out the following except :
	(4	A)	Blood spot	(B)	Infertile egg
	((C)	Air cell depth	(D)	Albumen quality
80.	Which	is n	ot true regarding the physical require	nents	for incubation of chicken egg?
	(4	A)	Temperature in setter 98.5°F		
	(I	B)	Humidity in hatcher $65-75\%$		
	((C)	Carbon dioxide level in setter below 0	.5%	
	(I	D)	The eggs kent horizontally in hatcher		

81.	Idea	Ideal storage conditions for hatching eggs before incubation include:						
	(i)	Tem	perature $10-12$ °C					
	(ii)	Hun	m nidity~75-80%					
	(iii)	Egg	s held small end down					
		(A)	Only (i) and (ii)	(B)	Only (i) and (iii)			
		(C)	Only (ii) and (iii)	(D)	All of these (i), (ii) and (iii)			
82.	For	fumig	ating 100 cubic feet incubator space, th	e che	micals needed are :			
		(A) 20 g potassium permanganate and 40 ml formalin						
		(B)	40 g potassium permanganate and 20	ml fo	rmalin			
		(C)	30 g potassium permanganate and 50	ml fo	rmalin			
		(D)	50 g potassium permanganate and 30	ml fo	rmalin			
83.	A tu	mour	developing Herpes viral disease of chic	ken :				
		(A)	New Castle disease	(B)	Fowl plague			
		(C)	Marek's disease	(D)	Pullorum disease			
84.	A vi	ral di	sease of chicken caused by Birna virus i	mainl	y affecting the Bursa of Fabricius :			
		(A)	Fowl cholera	(B)	Gumboro disease			
		(C)	Avian influenza	(D)	Ranikhet disease			
85.	Whi	ch is t	true with respect to aspergillosis in chic	ken?				
	(i) It may originate from hatchery contamination							
	(ii)	It ca	an be prevented by vaccination					
	(iii)	Sau	cer shaped greenish nodules are seen in	lung	s			
		(A)	Only (i) and (ii)	(B)	Only (i) and (iii)			
		(C)	Only (ii) and (iii)	(D)	All of these (i), (ii) and (iii)			
86.	Dise	ease ca	aused due to riboflavin deficiency in chi	cken	:			
		(A)	Curled toe paralysis	(B)	Nutritional roup			
		(C)	Crazy chick disease	(D)	Rickets			
87.	Whi	ch of	the following vaccine can be given throu	igh di	rinking water?			
		(A)	MD	(B)	RDF			
		(C)	IBD	(D)	R_2B			
88.	Whi	ch of	the following is not correct regarding th	e sex	differentiation in quails?			
		(A)	Females are heavier than males	(B)	Males produce a peculiar sound			
		(C)	Females have black speckles on throa	t (D)	Males have black beards below neck			
89.	Ave	rage a	ge at first egg in ducks is:					
		(A)	16 weeks	(B)	20 weeks			
		(C)	24 weeks	(D)	28 weeks			

90.	The egg weight in turkey averages around:			
	(A)	65 g	(B)	75 g
	(C)	85 g	(D)	95 g
91.	Aflatoxicosis mostly affects:			
	(A)	Ducks	(B)	Turkeys
	(C)	Quails	(D)	Chicken
92 .	Optimum marketing age for turkey is:			
	(A)	10-12 weeks	(B)	8-10 weeks
	(C)	14-16 weeks	(D)	12-14 weeks
93.	As per BIS standards, cow milk should contain:			
	(A)	3.5% milk fat and $8.5%$ SNF	(B)	3.0% milk fat and $9.0%$ SNF
	(C)	4.5% milk fat and $8.5%$ SNF	(D)	4.0% milk fat and $9.0%$ SNF
94.	The commonest method for pasteurization of packed milk obtained in Kerala market is :			
	(A)	Vacuum pasteurization	(B)	HTST system
	(C)	LTLT system	(D)	UHT system
95 .	According to PFA rules, cream should contain a minimum milk fat percentage of:			
	(A)	10	(B)	80
	(C)	25	(D)	99
96. A concentrated milk product is:				
	(A)	Butter	(B)	Rasgulla
	(C)	Lassi	(D)	Gulabjamun
97.	Which of the following is not a step in ice cream manufacture?			
	(A)	Pasteurization	(B)	Figuring
	(C)	Homogenization	(D)	Ripening
98.	The process which make milk a more stable emulsion:			
	(A)	Homogenization	(B)	Condensation
	(C)	_	(D)	Pasteurization
99.	Milk fat percentage may be estimated using:			
	(A)	Selliwanoff's test	(B)	Gerber's test
	(C)	Iodine test	(D)	Lactometer
100.	What changes are effected in milk on adding skim milk to it?			
	(A) SNF percentage rises, Specific gravity falls, fat percentage rises			
	 (B) SNF percentage falls, Specific gravity falls, fat percentage rises (C) SNF percentage rises, Specific gravity rises, fat percentage falls 			
	(D)	SNF percentage falls, Specific gravity rises, fat percentage falls		
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SPACE FOR ROUGH WORK

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