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B.V.Sc. & A.H. (Second Professional) Examination – 2023 Veterinary Microbiology Paper -I

TT1 -	Veterinary Microbiology Paper -I
Time:	Three Hours Maximum Marks: 100 Weightage: 20
Unit-2	(General & Systematic Veterinary Bacteriology) (Veterinary Mycology) (Microbial Biotechnology)
Instru	actions:
1) 2) 3)	Attempt all questions Answer of all questions is to be written in the space provided along with the question in question-booklet. Overwriting is not allowed in the objective type question.
Q.1	Fill in the blanks. $(20x0.5 = 10)$
1.1	The colonies of spp. have a fried egg appearance.
	The presence of periplasmic flagella is a characteristic feature of
1.3	The cutaneous form of glanders is called
1.4	is commonly used as an enrichment media for the
	isolation of Salmonella.
1.5	The metabolically inactive infectious form of chlamydia is called
1.6	Weil-Felix reaction is used for the diagnosis of using
	Proteus organisms.
1.7	The most commonly used stain for the fungal identification is
1.8	The first vaccines against fowl cholera and anthrax were developed by
1.9	The LPS present in gram negative bacteria is toxin in nature.
1.10	
	microorganism.
1.11	The blotting technique uses antibodies to characterize
	proteins.
1.12	Enzymes which cut the DNA sequence at specific site are known as
1.13	In blue white screening, the recombinant clones will be in
	colour.
1.14	vector is a hybrid of plasmid and phage.

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1. Clostridium tetani

2. Clostridium perfringens 3. Clostridium septicum 4. Clostridium chauvoei

1. Mycobacterium tuberculosis 2. Corynebacterium diphtheriae

Which among the following is neurotoxic clostridium ()

Metachromatic granules or volutin granules are the characteristic of which

2.6

2.7

bacterium

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Mycobacterium

1. Mycolic acid 2. Dipicolinic acid 3. Mycosides

4. N-glycolyl-muramic acid

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	Which among the following can be used to demonstrate fungal e	lements in t	issue
2.15	Which among the following can be	()
	sections? 1. Periodic acid-Schiff (PAS)		
	- toining		
	 Gram staining Modified Ziehl-Neelsen 		
	4. India ink	(
2.16	Example of nucleotide database is	. ()
2.16	1. GenBank		
	2. Swiss-Port		
	3. PIR		
	TO COL	(١.
2.17	4. TrEMBL Commonly used restriction enzyme in genetic engineering is	()
2	1. Type I		
	2. Type II		
	3. Type III		
	4. Type IV	()
2.18	BLAST means 1. Bioinformatic Local Alignment Search Tool	(,
	1 Carall aggregation (OI)		
		ı Tool	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
2.10	4. Basic Local Alignment Search 1001 Which of the following are asexual spores of fungi	()
2.19	1. Ascospores		
	2. Basidiospores		
	3. Zygospores		
	4. Sporangiospores		
2.20	The overeating disease or pulpy kidney disease in sheep and g	goats is cau	ised
	by	()
	1. Clostridium perfringens Type Λ		
	2. Clostridium perfringens Type B		
	3. Clostridium perfringens Type C		
	4. Clostridium perfringens Type D		
Q.3	Attempt any ten out of the following twelve questions.	Answer 0	f each
Q.5	question should be in 2 to 3 lines.	(10x2.0=	20)
3.1	Mutagens	(2	
	· · · · · · · · · · · · · · · · · · ·		
3.2	2. Toxoid		
-			

3.3	Sporangiospores			
_===				
3.4	Strangles	 		
3.5	Strauss reaction			
		 	19	
3.6	Nagler's reaction			
3.7	CAMP test			
				9
	D			
3.8	Proteomics			
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3.9 cl	DNA library
	Hybridization probe
	Bacteremia
3.12	Thrush
Q.4	Attempt any <u>six</u> out of the following eight questions. Answer of each question should be in 8 to 10 lines. (6 x $6.0 = 36$)
4.1	Difference between Gram positive and Gram negative bacteria
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	<u>-</u>	and and
	Bacterial growth curve	LIBRA
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3	Western blotting technique	
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	Properties of an ideal vector
4.4	Properties of all fucul vossi
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4.	5 Laboratory diagnosis of dermatophytosis
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4.6	Principle and steps of Polymerase Chain Reaction
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4.7	Diagnosis and control of Haemorrhagic Septicaemia
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	describe any two of them
4.8	Enlist the various mycotoxicoses and describe any two of them
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Q.5	Answer the following question in 1-2 pages (attempt any two).
2.0	(2x12.0 = 24)
5.1	Write in detail about the Brucellosis in Cattle including its etiology,
	morphology, cultural characteristics, pathogenesis, clinical symptoms,
	diagnosis, prevention and control.
5.2	What is nucleic acid hybridization. Describe the various types of nucleic acid
	hybridization techniques in detail (with diagrammatic illustrations).
5.3	Write in detail about the Anthrax including its etiology, morphology, cultural
	characteristics, pathogenesis, clinical symptoms, diagnosis, prevention and
	control in domestic animals.

Q. No				
Q. No				
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