Navas cheemadan

SECOND YEAR HIGHER SECONDARY SECOND TERMINAL EVALUATION, DECEMBER-2019 ZOOLOGY ANSWER KEY

	1		ZOOLOGY ANSWER KEY		-			
QN no.		• :	Scoring key		Score			
1			er any 3 questions from 1 to	5				
<u>1</u> 2	-	thral meatus			1 1			
	c)Androgen c)Down's SYndrome							
<u>3</u> 4	d)RNa				1 1			
<u> </u>	c)Gloi				1			
3			er any 9 questions from 6-1	6	-			
6			on could be exerted at	.0				
U			formation of primary transcri	int).	0.5			
			ulation of splicing),		0.5			
			rom nucleus to the cytoplasm	1,	0.5			
	iv) Tra	anslational level			0.5			
7	In RN/	A. Present of 2' OH	group make it catalytic and re	eactive hence RNA is	2			
-	unstable.RNA mutate faster and also RNA is not better genetic material							
	for the storage of information .							
8			L codons code for amino acids					
	code for any amino acids, hence they function as stop codons.							
	ii) One codon codes for only one amino acid, hence, it is unambiguous and							
	specific. iii) Some amino acids are coded by more than one codon, hence the code							
			e coded by more than one co	don, nence the code				
		is degenerate. iv) The codon is read in mRNA in a contiguous fashion. There are no						
			IIIRNA III a contiguous fasilio	II. IIIele ale lio				
	punctuations. v) The code is nearly universal: for example, from bacteria to human UUU							
			anine (phe). Some exception					
	rule h	rule have been found in mitochondrial codons, and in some protozoans.						
		vi) AUG has dual functions.						
		-It codes for Methionine (met)						
		it also act as initia	tor/start codon					
		our response)						
9		dy-Weinberg princ ene migration or g			1			
			ene now,					
		ii) Genetic drift, iii) Mutation,						
		enetic recombinati	ion and		1			
		tural selection. (a						
10		ent evolution						
-	It is the process whereby groups from the same common ancestor evolve							
	and accumulate differences, resulting in the formation of a new species							
			, Australian marsupials,pla	cental mammals in				
	australia (Any one example)							
	Convergent evolution							
	When more than one adaptive radiation appeared to have occured in							
	an isolated geographical area(representing different habitat)is called							
	convergent evolution. Eg.placental wolf and tasmanian wolf							
11				an apparanhical area	2			
TT	The process of evolution of different species in a given geographical area starting from a point and literally radiating to other areas of geography							
	(habitat) is called adaptive radiation							
			ved from an ancestral stock					
12	S	Disease	Causative orgnism	Symptom				
	No.							
	1	Typhoid	Salmonella typhi (a)	High Fever and	•			
				stomach pain	2			
	2	Common cold	Rhino virus (b)	Head ache,sore				
				throat (c)				
	3	Amoebiasis	Entamoeba histolytica	constipation,				
				abdominal pain				
	11			and cramps,				

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				stools with excess mucous and blood clots.		
	4	Ascariasis A	Ascaris(Round worm) (d)	Internal bleeding,muscu lar pain		
13	Skin o micro-c gastroi enterin (b) Phy Acid in microbi Lysozyn (c) Cell Certai leukocy lympho phagoo the bloo movem (d) Cyt Virus-i	organisms. Mucus coa ntestinal and uroge g our body. <u>siological barriers :</u> the stomach, saliva ial growth. Saliva a me <u>ular barriers :</u> n types of leukocytes (PMNL-neutrophi ocytes) in the blood ytose and destroy m od have the ability to ent called Diapedesis okine barriers : infected cells secret	main barrier which prev ating of the epithelium lini nital tracts also help in a in the mouth, tears from and tear contain antibact s (WBC) of our body like p ls) and monocytes and nat d as well as macrophag nicrobes. The PMNL espec come out of the blood capi s. It engulf many pathoger the proteins called interfer	ng the respiratory, trapping microbes m eyes-all prevent cerial agent called oolymorpho-nuclear tural killer (type of es in tissues can ially neutrophils of llaries by amoeboid is	2	
14	non-infected cells from further viral infection. (any one example) <u>AUTO IMMUNITY</u> Memory-based acquired immunity evolved in higher vertebrates based on the ability to differentiate foreign organisms (e.g., pathogens) from self cells. higher vertebrates can distinguish foreign molecules as well as foreign organisms. due to genetic and other unknown reasons, the body attacks self-cells. This results in damage to the body and is called auto-immune disease. Eg: Rheumatoid arthritis Mystheniagravis					
15		stamine and adrenali	ne		2	
16	b) Bact	ric acid			2	
	u) 1400		ny 3 questions from 17-20	0		
17	S No. a) b) c) d) e) f)	A Tubectomy PIIIs Vaults Lippers loop Lactational ameno CuT	B Surgical method Oral contraception Barrier method Non medicated IUI)		
18	a) Alec Jeffreys 1-1. Isolation of DNA 2. Digestion of DNA into fragments by restriction endonuclease 3. Separation of DNA fragments by electrophoresis 4. Transferring of separated DNA fragments into nitrocellulose paper (blotting) 5. Hybridization using labeled VNTR probe 6. Detection of hybridized DNA fragments be auto radiography					
19	b) Bact	erial artificial chromoso erial artificial chromo ressed sequence tags	osome		0.5 0.5 0.5	
		\mathbf{c}				

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	 d) Variable number tandem repeats e) Single nucleotide polymorphism f) Polymerase chain reaction 	0.5 0.5 0.5 0.5
20	Dryopithecus- Ramapithecus- Australopithecines- Homo habilis- Homo erectus- Homo sapiens	2