## PREVIEW QUESTION BANK

Module Name : cec24-bt11 Animal Biotechnology-ENG Exam Date : 18-May-2024 Batch : 09:00-12:00

Sr. No.	Client Q II	Question Body and Alternatives	Marks Ne	gative Iarks
bjec	tive Quest			
	4131001	he term restriction endonuclease was coined by	2.0	0.00
		Ladarbara and Masalsan		
		Lederberg and Meselson Meselson and Yuan		
		Hamilton Smith		
		Johansson		
		Johansson		
		1:1		
		1. 2		
		2:2		
		3:3		
		1:4		
	tive Quest			
	4131002		2.0	0.0
1-	+131002		2.0	0.0
		olony hybridization technique was developed by		
		Fainbarg and Vagalatain		
		Feinberg and Vogelstein		
		Peter Rigby and Paul Berg Benton and Davis		
		Grunstein and Hogness		
		1:1		
		1. 1		
		2:2		
		3:3		
		1:4		
,ieo	tive Quest			
	4131003		2.0	0.0
-	.151005		2.0	
		he mechanism whereby genetic information contained in mRNA is converted back into a ds-DNA is know as		
		Transcription		
		Translation		
		Polyadenylation		
		Reverse transcription		
		reverse transcription		
		1:1		
11				

		A2:2		
		A3:3		
		A4:4		
L				<u> </u>
4	bjective Questi 14131004		2.0	0.00
4	14131004		2.0	0.00
		Enzyme used in homopolymer tailing is		
		1. DNA polymerase		
		Terminal deoxynucleotidyl transferase		
		3. Klenow fragment		
		4. DNA Ligase		
		A1:1		
		A2:2		
		A3:3		
		A3:3		
		A4:4		
L				
Ol	bjective Questi 14131005		2.0	0.00
3	14131005		2.0	0.00
		The enzyme used in Western blotting is		
		Beta-galactosidase		
		Horse-radish peroxidase		
		3. Maltase		
		4. Sucrase		
		A1:1		
		A2:2		
		A2:2		
		A3:3		
		A4:4		
L				
	bjective Questi	on	2.0	10.00
6	14131006		2.0	0.00
		The principle of Western blotting is		
		Antigen-antibody interaction		
		RNA-DNA hybridization		
		3. DNA-DNA Hybridization		
		4. DNA-protein interaction		
		A1:1		

			A2:2		
			A3:3		
			A4:4		
L	Ohie	ctive Questi	on		
11:		14131007		2.0	0.00
			Who is known as the pioneer of retroviral mediated gene transfer?		
			1. Robert Briggs		
			David Baltimore		
			3. Rudolf Jaenisch		
			4. John Gurdon		
			A1:1		
			A2:2		
			A3:3		
			A4:4		
	Obje	ctive Questi	on		
	3	14131008		2.0	0.00
			Which protein has been produced generating a transgenic sheep that is used for replacement therapy for individuals at risk from emphysema?		
			1. α-anti trypsin (AAT)		
			Amyloid precursor proteins		
			Plasminogen activator (tPA)		
			4. Casein		
			A1:1		
			A2:2		
			A3:3		
			A4:4		
	21-1-	ctive Questi			
ΠE		14131009	on	2.0	0.00
			Lactoferrin is produced in the milk of which transgenic animal?		
			1. Cattle		
			2. Rabbit		
			3. Goat		
			4. Sheep		
			Al:1		

			A2:2		
			A3:3		
			A4:4		
L	21 :				
		ective Questi 14131010		2.0	0.00
	10	14131010	A method involving silencing of specific mRNA due to the binding of complementary dsRNA, is called 1. DNAi	2.0	0.00
			2. Knock out 3. Knock in 4. RNAi		
			A1:1		
			A2:2		
			A3:3 A4:4		
			Α4.4		
L	21 :	0			
		ective Questi 14131011		2.0	0.00
	11	14131011	In production of transgenic rice using CRISPER-Cas9 gene editing tool, which gene is used as the target?	2.0	0.00
			1. ACCase 2. ALS		
			3. ZmALS 4. BnALS1		
			Al:1		
			A2:2		
			A3:3		
			A4:4		
(	Obj	ective Questi	on		
F	12	14131012		2.0	0.00
			Which molecular transfer technique is based on the general principle of nucleic acid hybridization and applied for the separation of proteins?		
			Northern Blotting     Western Blotting		
			Southern Blotting     Autoradiography		
			A1:1		

			A2:2		
			A3:3		
			A4:4		
	NL:-	ctive Questi			
		14131013		2.0	0.00
		11131013	The DNA between two restriction sites is called a/an	2.0	0.00
			1. Exon		
			Restriction fragment		
			3. Intron		
			4. Muton		
			A1:1		
			A2:2		
			A3:3		
			A4:4		
(	)hie	ctive Questi	on		
		14131014		2.0	0.00
			In Cystic Fibrosis, Delta F508 CF mutation occurs in the DNA sequence that codes for the first		
			1. NBD1		
			2. MSD2		
			3. MSD1		
			4. NBD2		
			A1:1		
			A2:2		
			A3:3		
			A4:4		
1	)hie	ctive Questi	on		
		14131015		2.0	0.00
		-	Gene therapy was developed to correct chronic myeloid leukemia using		
			1. Cart T		
			2. CRISPR/Cas9 insertion		
			3. Antisense		
			Liposome mediated		
			A1:1		

			A2:2		
			A3:3		
			A4:4		
6	)hie	ective Questi	on		
		14131016		2.0	0.00
			Introduction of novel genetic material to express therapeutic gene products, aiming to cure a disease only in the patient, not in the patient's descendants is called	2.0	0.00
			<ol> <li>Somatic gene therapy</li> <li>Germline gene therapy</li> <li>Zygote gene therapy</li> <li>Cart T therapy</li> </ol>		
			A1:1		
			A2:2		
			A3:3		
			A4:4		
		ective Questi	on		
1	7	14131017		2.0	0.00
			Recombinant Insulin brand Insuman is marketed by		
			1. Ranbaxy		
			2. Sanofie		
			3. Sanofi		
			4. Eli Lilly		
			A1:1		
			A2:2		
			A3:3		
			A4:4		
C	)bje	ective Questi	on		
		14131018		2.0	0.00
			JK BovaGenix is the pioneer of IVF-ET Technology for the Conservation and Propagation of Indigenous in India		
			1. Sheep		
			2. Boar		
			3. Swine		
			4. Cattle		
			A1:1		

			A2:2		
			A3:3		
			A4:4		
L	) )  -  -				
		ective Questi 14131019		2.0	0.00
		14131017		2.0	0.00
			Which animal is regarded as important amplifying host for the disease FMD?		
			1. Sheep		
			2. Camel		
			3. Cattle		
			4. Pigs		
			A1:1		
			A2:2		
			A3:3		
			A4:4		
		ctive Questi			
ľ	20	14131020		2.0	0.00
			The first report of foot-and-mouth disease (FMD) in cattle was made by		
			1. Hieronymus Fracastorius		
			2. Vallee and Carre		
			3. Loeffler Frosch		
			4. Franklin		
			A1:1		
			A2:2		
			AZ . Z		
			A3:3		
			A4:4		
		ctive Questi	on		
ľ	21	14131021		2.0	0.00
			In Sanger's method of DNA sequencing, the synthesis reactions are halted by addition of		
			Alkaline phosphatase		
			2. HCL		
			3. Formamide		
			4. Nitric acid		
			A1:1		
11					

		A2:2		
		A3:3		
		A4:4		
Oh	jective Questi	on		
	14131022		2.0	0.00
		Name the double stranded, circular, self-replicating extra chromosomal genetic material.		
		1. Genomic DNA		
		2. Plasmid DNA		
		3. Transposons		
		4. Mitochondrial DNA		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Ob	jective Quest	on		
23	14131023	Which molecular diagnostic technique is used to identify disease gene leading to the gain or loss of restriction events?	2.0	0.00
		which molecular diagnostic technique is used to identify disease gene leading to the gain of loss of restriction events?		
		Polymerase Chain Reaction		
		2. Microarray		
		3. Pyrosequencing		
		Restriction Fragment Length Polymorphisms		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
		A4:4		
Oh	jective Questi	on		
	14131024		2.0	0.00
		By using which genome editing tool herbicide resistant plants are developed in cassava?		
		1. Prime Editing		
		2. Cas9-gRNA 3. CRISPER-Cas9		
		4. TALEN		
		A1:1		

		A2:2		
		A3:3		
		A4:4		
(	Objective Quest	on		
	5 14131025		2.0	0.00
		The role of Glucose in lysis buffer is as/for		
		1. Chelating agent		
		2. Buffering		
		3. Osmotic shock		
		4. Cofactor		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
(	Objective Quest	on		
	6 14131026		2.0	0.00
		Antithrombin III was produced and marked by		
		1. Monsanto		
		2. Syngenta		
		3. GTC-Biotherapeutics		
		4. DuPont		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
L				
	Objective Quest	on	1 1	
	7 14131027		2.0	0.00
		PiggyBac transposon consists of a transposon and a transposase, which facilitates the integration of gene at site.		
		1. TATA		
		2. TAGC		
		3. TTAA		
		4. AATT		
		A1:1		

		A2:2		
		A3:3		
		A4:4		
Ob	jective Quest	on		
	14131028		2.0	0.00
		Humans and primates differ from other animals in that they lack an enzyme, that places a particular sugar group on cell surfaces.		
		1. Glycocyltransferases		
		2. Esterase		
		3. Dehydrogenase oxidase		
		4. α1,3 galactosyltransferase		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Ob	jective Quest	on		
29	14131029		2.0	0.00
		Which of the following is the Plasmid constructed using Saccharomyces cerevisiae centromere, telomere and autonomously		
		replicating sequence?		
		1. HAC		
		2. Cosmid 3. YAC		
		4. MAC		
		4. WAG		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Ob	jective Quest	on		
	14131030		2.0	0.00
		Which RNA assists in CRISPR-Cas gene editing process?		
		1. tRNA		
		2. gRNA		
		3. iRNA		
		4. snRNA		
		A1:1		

		A2:2 A3:3		
		A4:4		
Ohi	ective Questi	on		<u> </u>
	14131031	VIII	2.0	0.00
		Which is the transgenic mammalian host used for the production of recombinant spidroins based on Nephila clavipes dragline silk.  1. Capra aegagrus hircus 2. Arabidopsis thaliana 3. Bos taurus 4. Sus scrofa domesticus		
		A1:1 A2:2 A3:3		
		A4:4		
	ective Questi	on		
32	14131032	Creation of males that lack their own germline cells by transplanted spermatogonial stem cells from other donor males, is called  1. Cloning 2. Trasgenesis 3. Artificial Insemination 4. Surrogate sire technology  A1:1	2.0	0.00
Ohi	ective Questi	A3:3 A4:4		
		VII	0.0	0.00
33	14131033	Transformation method that uses tungsten or gold particle coated with DNA accelerated at high velocity is called  1. Acceleration method  2. Biolistic method  3. DNA particle delivery method  4. High velocity method	2.0	0.00

			A1:1 A2:2		
			A3:3 A4:4		
	Obj	ective Questi	on		
	34	14131034		2.0	0.00
			Choose an Artificial Chromosome Vector from the following.		
			1. pBR322		
			2. BAC		
			3. M13		
			4. lgt10		
			A1:1		
			A2:2		
			A3:3		
			A4:4		
	Obj	ective Questi	on		
		14131035		2.0	0.00
			To treat which deficiency in 1990 first gene therpay was given?		
			Adenosine deaminase		
			2. Vitamin deficiency		
			3. Protein		
			4. Iron		
			A1:1		
			A2:2		
			A3:3		
- 1			A4:4		
	Obj	ective Questi	on		
		14131036		2.0	0.00
			The size of the virulent plasmid of Agrobacterium tumefaciens is		
			1. 12-24Kb		
			2. 20-35 Kb		
			2. 20 00 10		
	п		3. 1-20Kb		
			3. 1-20Kb		
			3. 1-20Kb		
			3. 1-20Kb		

		A2:2 A3:3 A4:4		
	ective Quest	on		
37	14131037	In technique simple addition of functional gene is used to treat inherited disorders caused by genetic deficiency of a gene product.  1. Targeted killing 2. Antisense technology 3. Gene Augmentation Therapy 4. Targeted Gene correction	2.0	0.00
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Ob	jective Quest	on		
	14131038	First transgenic animal to win US approval for food on 04 <sup>th</sup> August 2017  1. Cyprinus carpio 2. AquAdvantage' salmon 3. Tilapia 4. Trout  A1:1  A2:2  A3:3  A4:4	2.0	0.00
	14131039	OII	2.0	0.00
1137	11101007	Prokaryotic expression vectors would have a	2.0	0.00

		A2:2		
		A3:3		
		A4:4		
Ol	jective Quest	on		
	14131040		2.0	0.00
		Tuberculosis-resistant cows were developed for the first time using gene-editing technology.  1. TALEN		
		2. ZFN		
		3. CRISPR/Cas9		
		4. Antisense		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Ol	ojective Quest	on		
	14131041		2.0	0.00
		In which step of PCR reaction, the primer DNA gets hybridized to the single stranded DNA template?		
		1. Denaturation		
		2. Annealing		
		3. Extension		
		4. Termination		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
Ol	ojective Quest	on		
42	14131042	Mutations that affect the biosynthesis of CFTR protein	2.0	0.00
		1. R117H missense mutation		
		2. W1282X mutation		
		3. G551D missense mutation		
		4. Splice-site mutation		
		A1:1		
		A2:2		

		A3:3		
		A4:4		
C	bjective Quest	on		
	3 14131043		2.0	0.00
		Adult cell cloning is also known as		
		1. Embryo cloning		
		2. Biomedical cloning		
		Therapeutic cloning     Reproductive cloning		
		4. Reproductive cloning		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
C	bjective Quest	on		
	4 14131044		2.0	0.00
		Name the third generation of transgenic technology which has been tested in the fields against different insects and pests		
		attacks.		
		attacks.		
		Molecular pharming		
		2. Gene pyramiding		
		3. Gene farming		
		4. Organic farming		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
	bjective Quest			
	5 14131045	on	2.0	0.00
	3 14131043	Which enzyme is used for the isolation of proteins and RNA?	2.0	0.00
		1. Proteinase K		
		2. Enterokinase		
		3. Pepsin		
		4. Trypsin		
		A1:1		
		211.1		

		A2:2		
		A3:3		
		A4:4		
Ļ				
	bjective Quest	ion	2.0	0.00
-	0 14131040		2.0	0.00
		Number of base pairs present in pUC 18 plasmid		
		1. 4352		
		2. 2686		
		3. 2665		
		4. 500		
		A1:1		
		A2:2		
		A3:3		
		AJ. J		
		A.A. A.		
		A4:4		
Ļ				
	bjective Quest 7   14131047	ion	2.0	0.00
ľ	/ 1413104/		2.0	0.00
		The use of pituitary derived hGH was prohibited when its association with disease was proved.		
		1. Foot and Mouth		
		2. Tuberculosis		
		3. Pneumonia		
		4. Creutzfeldt-Jakob		
		A1:1		
		A2:2		
		A3:3		
		A4:4		
	bjective Quest	ion		
	8 14131048		2.0	0.00
		Which gene is involved in gene therapy for chronic pain relief		
		1. SCN9A		
		2. HLA-DQA1		
		3. HLA-DRB1		
		4. HLA-DQB1		
		A1:1		
		AL.1		
	1	A2:2		

	″Z¬, 11.ZO 1	041_10_01_00024_5t11_1 00.11d11		
		A3:3		
		A4:4		
О	bjective Ques	tion		
	14131049		2.0	0.00
		1. Ruppy		
		2. Mighty Mice		
		3. Puppy		
		4. Doggie		
		A1:1		
		AT. I		
		A2:2		
		A3:3		
		A4:4		
o	bjective Ques	tion		
	14131050		2.0	0.00
		Which of the following is most used herbicide worldwide, in the trade name Roundup?		
		1. Glyphosate		
		2. Carbaryl		
		3. Malathion		
		4. Boric Acid		
		A1:1		
		AI.I		
		A2:2		
		A3:3		
		A4:4		
		л		