MaFirstranker'sachorceis:	.UIII	E' a (Day)
(A) 55.6 M (Correct Answer)	www.FirstRanker.com	www.FirstRanker.com
(B) O 18 M		
(C) O 7 M		
(D) ○ 36 M		
Question No.2 (Question Id - 49)		
• •	NA replication that works due to the inl	nibition of :
(A) O Ribonucleotide reductase ((Correct Answer)	
(B) O DNA polymerase α		
(C) ○ DNA polymerase β(D) ○ DNA Ligase		
(D) O DIVA Ligase		
Question No.3 (Question Id - 21) Of the global photosynthesis, 90% is	carried out by :	
(A) O Pteridophytes	carried out by .	
(B) O Algae (Correct Answer)		
(C) Mesophytes		
(D) O Xerophytes		
Question No.4 (Question Id - 11)		
Which of the following causes late bli	ight of potato ?	
(A) O TMV		
(B) ○ Puccinia graminis(C) ○ Xanthomanas oryzae		
(C) () Xantnomanas orvzae		
•	orract Answer)	
(D) O Phytophthora infestans (Co	orrect Answer)	
(D) O Phytophthora infestans (Co	nembrane regulator gene (CFTR) caus	es cystic fibrosis disease
(D) O Phytophthora infestans (Co Question No.5 (Question Id - 48) Mutation in the cystic fibrosis transm	<u> </u>	es cystic fibrosis disease
Question No.5 (Question Id - 48) Mutation in the cystic fibrosis transmidue to the infection from :	nembrane regulator gene (CFTR) caus	es cystic fibrosis disease
(D) Phytophthora infestans (Conception No.5 (Question Id - 48) Mutation in the cystic fibrosis transmodule to the infection from: (A) Escherichia coli	nembrane regulator gene (CFTR) caus	es cystic fibrosis disease
(D) O Phytophthora infestans (Con Question No.5 (Question Id - 48) Mutation in the cystic fibrosis transmodule to the infection from: (A) O Escherichia coli (B) Pseudomonas aeruginosa	nembrane regulator gene (CFTR) caus	es cystic fibrosis disease
Question No.5 (Question Id - 48) Mutation in the cystic fibrosis transmodule to the infection from: (A)	(Correct Answer) ental delays and a characteristic facial e doctor who first described it. It is a	I and bodily appearance.
Question No.5 (Question Id - 48) Mutation in the cystic fibrosis transmodule to the infection from: (A)	(Correct Answer) ental delays and a characteristic facial e doctor who first described it. It is a	I and bodily appearance.
Question No.5 (Question Id - 48) Mutation in the cystic fibrosis transmodule to the infection from: (A)	(Correct Answer) ental delays and a characteristic facial e doctor who first described it. It is a it?	I and bodily appearance.
Question No.5 (Question Id - 48) Mutation in the cystic fibrosis transmodule to the infection from: (A) Sescherichia coli (B) Pseudomonas aeruginosa (C) Vibrio cholerae (D) Salmonela typhimurium Question No.6 (Question Id - 51) This syndrome results in development This syndrome was named after the trisomy of chromosome 21. What is	(Correct Answer) ental delays and a characteristic facial e doctor who first described it. It is a it?	I and bodily appearance.
Question No.5 (Question Id - 48) Mutation in the cystic fibrosis transmodule to the infection from: (A)	(Correct Answer) ental delays and a characteristic facial e doctor who first described it. It is a it?	I and bodily appearance.
Question No.5 (Question Id - 48) Mutation in the cystic fibrosis transmodule to the infection from: (A)	(Correct Answer) ental delays and a characteristic faciale doctor who first described it. It is a it?	I and bodily appearance. syndrome caused due to
Question No.5 (Question Id - 48) Mutation in the cystic fibrosis transmodule to the infection from: (A)	(Correct Answer) ental delays and a characteristic facial e doctor who first described it. It is a it? Answer)	I and bodily appearance. syndrome caused due to
Question No.5 (Question Id - 48) Mutation in the cystic fibrosis transmodule to the infection from: (A)	(Correct Answer) ental delays and a characteristic facial e doctor who first described it. It is a it? Answer)	I and bodily appearance. syndrome caused due to
Question No.5 (Question Id - 48) Mutation in the cystic fibrosis transmodule to the infection from: (A)	(Correct Answer) ental delays and a characteristic facial e doctor who first described it. It is a it? Answer)	I and bodily appearance. syndrome caused due to
Question No.5 (Question Id - 48) Mutation in the cystic fibrosis transmodule to the infection from: (A)	(Correct Answer) ental delays and a characteristic facial e doctor who first described it. It is a it? Answer)	I and bodily appearance. syndrome caused due to

Raja weighed 8 gm of Sodium Hydroxide (NaOH, molecular weight = 40) and dissolved in water to prepare 500 ml of solution. Seema, from the same laboratory used 20 gm of Sodium Hydroxide to www.FirstRanker.com

Firstranker's choice A) O Acetyl CoA (Correct Answer) www.FirstRanker.com www.FirstRanker.com
A)() ACEIVI COA (COMECI ANSWED) WWW.I II BUNGINGI COM WWW.I II BUNGINGI COM
B) O Succinic acid
C) Citric acid
D) Oxaloacetic acid
Question No.10 (Question Id - 89)
The aromatic ring present in beta blocker propranolol is:
A) O Anthracene B) O Pyridine
C) O Napthalene (Correct Answer)
D) Oxazole
Question No.11 (Question Id - 6)
imb generation at the site of tail amputation in frog is detected in presence of one of the following:
A) O Vitamin D ₂ + Calcium
B) O Vitamin D ₃ + Calcium
C) ○ Vitamin D ₂ + Vitamin D ₃
D) O Vitamin A (Correct Answer)
Question No.12 (Question Id - 60) Vhich of these organs can regenerate ?
A) O The Brain
B) ○ The Heart
C) O The Kidneys
D) O The liver (Correct Answer)
Question No.13 (Question Id - 67) a plant biologist needs to generate protoplasts for somatic hybridization. Which combinations of nzymes must he utilize to generate protoplasts from plant leaves?
A) ○ Cellulase and pectinase (Correct Answer)
B) O Cellulase and protease
C) Chitinase and pectinase
D) Cellulase and chitinase
Question No.14 (Question Id - 80)
Which one of the following statement is NOT true for heterotrimeric G proteins? A) The separation of the δ subunit from the complex mediates the biological effect.
B) O GDP is bound to the β subunit.
C) O They have seven transmembrane helices. (Correct Answer)
D) The α subunit has intrinsic GTPase activity.
Question No.15 (Question Id - 10)
thlete's foot is a disease caused by :
A) O Nematode B) O Bacteria
C) C Fungus (Correct Answer)
D) O Protozoan
Question No.16 (Question Id - 74)
n the following nuclear reaction
$_{2}X^{180} \xrightarrow{-\alpha} Y \xrightarrow{-\beta} Z \xrightarrow{-\alpha} A \xrightarrow{-\gamma} P$
$2\lambda \longrightarrow 1 \longrightarrow L \longrightarrow \lambda \longrightarrow \Gamma$
700 = T3000 = 13000 = A3000 = A3000 = A3000 = A3000 = A

	ion No.18 (Question Id - 41) resence of inducer the operator of harous First Ranker.com	www.FirstRanker.com
, ,	Occupied by inducer - repressor complex Unoccupied (Correct Answer)	
	Occupied by inducer	
• •	Occupied by repressor	
The reco (A) (B) (C) (C)	ion No.19 (Question Id - 97) eptors expressed on innate immune cells recognize microbes by : Pathogen associated molecular proteins. Pathogen associated molecular patterns. (Correct Answer) Pathogen associated molecular probes. Pathogen associated molecular primers.	
Quest	ion No.20 (Question Id - 26)	
Which o	of the following molecular species are expected to be paramagnetic	?
(A) O	O_2^+, O_2^- and O_2^{2-}	
(B) O	Only O_2 and O_2^{2-}	
(C) O	Only O_2^+ and O_2^- (Correct Answer)	
(D) (Only \mathcal{O}_2^- and \mathcal{O}_2^{2-}	
	ion No.21 (Question Id - 31)	
in a pro	teomics experiment using mass spectrometer what does "m" and "	z" stand for :
(4)	" » f	
	"m" for mass and "z" for zeta potential "m" for mass and "z" for charge (Correct Answer)	
	"m" for momentum and "z" for zeta potential	
	"m" for momentum and "z" for charge	
(-)		
	ion No.22 (Question Id - 35) are classified based on the modes of their action. Which of order?	the following represent the
	Oxidoreductases, transferases, hydrolases, lyases, isomeras Answer)	es, ligases (Correct
	Hydrolases, isomerases, ligases, lyases, oxidoreductases, transfe	erases
(C) O	Oxidoreductases, transferases, hydrolases, ligases, isomerases, l	yases
(D) 🔾	Isomerases, lyases, ligases, hydrolases, oxidoreductases, transfe	rases
	ion No.23 (Question Id - 66) e of variation is observed in plant cells grown in <i>in vitro</i> cultures. T	「his phenomenon is known
(A) (Haploid mutation	
(B) 🔾	Somaclonal variation (Correct Answer)	
	Diploidy	
(D) O	Gene fusions	
Quest	ion No.24 (Question Id - 76)	
Steroid	hormones play a central role in many physiological processes. A	steroid hormone produced
by corpu	us luteum and involved in the maintenance of pregnancy is :	
	Progesterone (Correct Answer)	
$(R) \cap$	Estrogen	

be present ? www.FirstRanker.com

In a laboratory a student is asked to separate cell lysate into cyoplasmic and nuclear fractions. He/She centrifuges the lysate at 1000 g for 10 minutes at room temperature, where would the nuclei

(D) Virulence gene functions co-ordinate the transfer of the genetic material to the host plant.

(C) ○ The gall is formed due to over-production of auxin and cytokinins.

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Ш	्रिक्शिक्षाक्षात्रिकार्थः choic	e I. Mg	│ FirstRanker.com	www.FirstRanker.com
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	C. Chlorophyll	III. Fe		
	D. Alcohol dehydrogenase	IV. Ca	_	
C	Choose the correct options fr	om the options giver	n below :	
III '	(A) (A) (B) (A - II, B - III, C - II, D - III, B - III, C - II, D - IIII, C - III, D - IIII, C - III, D - IIII, C - III, D - IIIIIIIIIIIIIIIIIIIIIIIIIIII			
· `	(C))	
(Question No.42 (Question Dosage compensation in Dros (A) Activity of the autosor (B) Activity of the two X c (C) Activity of the single (D) One of the X chromos	sophila is achieved by mes in females are do hromosomes in fema a X chromosome in	own regulated des are down regulated males is up regulated (C	Correct Answer)
((((Question No.43 (Question The generation of antibody div (A) Protein splicing (B) Class switching (C) Allelic inclusion (D) Somatic hypermutat	versity in B-cell is ach	-	
(Aerobic oxidation of glucose of (A) Cytoplasm (B) Inner membrane (Co) Inner mitochondrial m (D) Outer mitochondrial m	orrect Answer) embrane	icn organelle ?	
	Question No.45 (Question	Id - 30)		
Já	ay is $\frac{1}{4}^{th}$ of age of his mothe	r. Four years later Ja	y's mother will be 3 times	older than him. What is the current
a	age of Jay's mother ?			
((A) O 32 (Correct Answer)			
III '	(B) O 44			
`	(C) 0 52			
,	(D)			
	Question No.46 (Question A protein was digested with tr		e peptides is not expected	d to be formed ?
∭ `	(A) O LFWMCSFK			
· III · `	(B) O SAGPCIR			
- III - `	(C)	t Answer)		
L'				
	Question No.47 (Question			
II V	Which of the following is also	called Jelly fish 2		
- 11		called belly listr :		
	(A) ○ Hydra (B) ○ Physelia	called delig fish :		

TOUR DELICATION OF THE PARTY OF	a particular amino acid, which positi	on allows certain
Firstranker's choice	www.FirstRanker.com	www.FirstRanker.com
(A) ○ First base(B) ○ Second base		
(C) Third base (Correct Answer)		
(D) O First and third bases		
Question No.50 (Question Id - 75)		_
When RBC's are placed in a hypertonic (A) RBC will swell	solution, which of the following will h	appen?
(B) O RBC will shrink (Correct Answ	wer)	
(C) RBC will burst		
(D) O No change		
Question No.51 (Question Id - 100) The quality of nucleotide identification in	n next generation seguencing is dete	rmined by :
(A) O P-value	Those generation doquenoing to deter	
(B) O Z-score		
(C) ○ Phred score (Correct Answer) (D) ○ E-value)	
Question No.52 (Question Id - 90) Which one of the following drug is used	in emergency postcoital contraception	on ?
(A) O Levonorgestrel (Correct Answ		
(B) Mefepriston		
(C) ○ Misoprostol(D) ○ 17, β-estradiol		
(A) ○ PET (Positron Emission Tomography) (B) ○ CT (Computed Tomography) (C) ○ Real-time PCR (Polymerase Chron) ○ Confocal microscope	Scan (Correct Answer)	
Question No.54 (Question Id - 71)		
Four species are listed below:		
A. HCO ₃		
B. H ₃ O ⁺		
C. HSO₄		
D. HSO ₃ F		
	ect sequence of their acidic strenath	?
Which one of the following is the corre		
Which one of the following is the corre (A) \bigcirc D < B < C < A	3	
(A) ○ D < B < C < A (B) ○ B < C < A < D		
(A) O D < B < C < A		

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Question No.75 (Question Id - 59)

A 60 year old p	person has a s	sudden onset	of chest	pain which	is radiating	to arms and j	aw. He is	also
having difficulty	y in breathing.	What diseas	se does h	e have?				

- (A) O Pulmonary embolism
- (B) O Myocardial infarction (Correct Answer)
- (C) Severe asthma attack
- (D) O Duodenal ulcer

Question No.76 (Question Id - 24)

When electric field is applied to the terminals of a circuit material consisting of two dissimilar conduction, cooling was observed at one junction and heating at the other. The phenomenon is known as:

- (A) O Joule Thompson effect
- (B) O Peltier effect (Correct Answer)
- (C) O Thermocouple
- (D) O Bohr's effect

Question No.77 (Question Id - 68)

The products of light reaction of photosynthesis are used as substrates for Calvin cycle. Which are these products?

- (A) O Ribulose bis-phosphate and Carbon di-oxide
- (B) ADP and NADP+
- (C) NADPH and ATP (Correct Answer)
- (D) Water and Carbon di-oxide

Question No.78 (Question Id - 3)

Name the First Indian Satellite:

- (A) Aryabhatta (Correct Answer)
- (B) O Rohini
- (C) Chandrayan
- (D) O Mangalayan

Question No.79 (Question Id - 56)

Type 1 diabetes is associated with:

- (A) O involuntary glucose release from liver
- (B) O destruction of pancreatic β cells (Correct Answer)
- (C) O dysfunction of insulin receptor
- (D) o sudden increase in dietary glucose uptake

Question No.80 (Question Id - 62)

Transgenic plants expressing viral coat proteins have proven to be effective in developing resistance to the same virus from which the coat protein was derived. Resistance mechanism in these plants has ascribed to multiple processes except:

- (A) O Plants that produce more defensive proteins than the non-transgenic plants (Correct Answer)
- (B) O Plants that prevent uncoating of the infecting virus
- (C) O Plants that prevent attachment of the virus
- (D) O Plants that prevent the replication and spread of the virus

(D) O Beta-cell



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Question No.98 (Question Id - 99)

Which Bioinformatic approach is used to find homology between two oligonucleotide sequences?

- (A) O PDB
- (B) O BLAST (Correct Answer)
- (C) O UniProt
- (D) O GO

Question No.99 (Question Id - 93)

The chain of molecular events that takes place in memory B-cell following antigen exposure is :

- (A) V-D-J recombination
- (B) O V-J-C recombination
- (C) O Class switching (Correct Answer)
- (D) O Allelic exclusion

Question No.100 (Question Id - 72)

Hemocyanin contains:

- (A) \bigcirc a dinuclear copper core and binds dioxygen in the cuprous state.
- (B) \bigcirc a dinuclear copper core and binds dioxygen in the cupric state.
- (C) a mononuclear copper core and binds dioxygen in the cuprous state. (Correct Answer)
- (D) \bigcirc a mononuclear copper core and binds dioxygen in the cupric state.

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