MOCK TEST 16, 2024(HS 2ND YEAR SCIENCE)

TIME: 1 HOUR MARKS: 120(JEE), 200(NEET)

BIOLOGY

1. Bt cotton variety that w	as developed by the intro	duction of toxin gene of B	acillus thuringiensis (Bt) is resistant to
a) insect pests	b) fungal diseases	c) plant nematodes	d) insect predators.
2. Which of the following		egarding RNA interference	
a) It is a method of cellula		16001	
		uces both sense and anti-se	nse RNA 1972 Lmv2
c) It involves silencing of		out of the lift be	= 2
d) Dicer is a DNase enzyr		iolecules into siRNAs	9
3. A permanent cure for A			t and the second of
a. Enzyme replacement th		b. Bone marro	w transplant
c. Introduction of a functi			2=2
		s producing ADA into earl	v embryonic cells
4. RNAi is a mechanism t			y emeryone cons
a. ssRNA	b. dsRNA	c. ssDNA	d. dsDNA
5. The two polypeptides of		d together by	
a. phosphodiester bonds			drogen bonds
6. Acrosome is a type of			,
a. lysosome	b. flagellum	c.ribosome	d.basal body.
7. Which of the following	•	tic part of a sperm?	
a. Whole of it	b. Tail	c. Middle piece	d. Head
8. The sperms undergo pl	ysiological maturation, a	equiring increased motility	
a.seminiferous tubules		tia c. epididymis	d. vagina.
9. At what stage of life is	oogenesis initiated in a h	uman female?	
a. At puberty b.Durin	ng menarche c. During	g menopause d. Du	ring embryonic development
10. 1st polar body is form	ed at which stage of ooge	enesis?	-
a. 1st meiosis	b. 2nd mitosis	c. 1st mitosis	d. Differentiation
11. A stamen is regarded	as a		
 a. Microsporophyll 	b. Megasporophyll	c. Microsporangium	d. Megasporangium
12. A typical anther is ger	nerally		, ×
a. Bisporangiate	b. Tetrasporangiate	c. Monosporangiate	d. Multisporangiate
13. The tapetal cells of an	ither shows		
a. Haploidy	b. Diploidy	c. Triploidy	d. Polyploidy
14. During microsporosis	, meiosis occurs in-		
a. Endothecium		ell c. microspore tetrads	d. Pollen grains
		f microsporangium in an an	ther are respectively -
a. Endothecium and tapet		b. Epidermis and endodermis	
c. Epidermis and middle	•	d. Epidermis and tapetum	
		from the primary site to oth	ner parts of the body?
a) Metastasis	b) Invasion	c) Angiogenesis	d) Carcinogenesis
	cs and destroys CD4 cells		
	sponsible for cell-mediate	•	
a) Both assertion and rea		b) Assertion is true, reason is false	
c) Assertion is false, reas		d) Both assertion and reason are false	
	iral therapy (ART) can cu		
	viral replication and boo	•	
a) Both assertion and reason are truec) Assertion is false, reason is true		b) Assertion is true, reason is false d) Both assertion and reason are false	
C) Assertion is faise, reas	on is true	d) Both asserti	ion and reason are talse

19. Assertion: Carcinogens can cause genetic mutations leading to cancer.

Reason: Carcinogens are substances that can cause cancer.						
a) Both assertion and reason are true	b) Assertion is true, reason is false					
c) Assertion is false, reason is true	d) Both assertion and reason are false					
20. Assertion: Cancer cells undergo apoptosis.						
Reason: Apoptosis is programmed cell death.						
a) Both assertion and reason are true	b) Assertion is true, reason is false					
c) Assertion is false, reason is true	d) Both assertion and reason are false					
21. In prokaryotes, gene regulation is primarily controlled at which level?						
a) Transcriptional level b) Post-transcriptional level c) Tr	ansfer of m RNA to cytoplasm d) Post-translational level					
22. The lac operon is considered an inducible operon because						
a) It is always turned on.	b) It is turned off when lactose is present.					
c) It is turned on when lactose is present.	d) It is turned on when glucose is present.					
23. What is the role of tRNA in translation?						
a) Carrying genetic information from DNA to ribosomes	b) Catalyzing peptide bond formation					
c) Delivering amino acids to the ribosome	d) Regulating the expression of genes					
24. Which of the following is essential for the initiation of tra	nslation in eukaryotes?					
a) Ribosome only	b) Ribosomal subunit 30S, mRNA					
c) mRNA, tRNA, and ribosomes, amino acid	d) Amino acid only					
25. Which molecule acts as an inducer in the lac operon system	em?					
a) Glucose b) Lactose c) cAM	IP d) Galactose					
26. Assertion: Migration leads to an increase in population si	ze.					
Reason: Individuals move from one population to another.						
a) Both assertion and reason are correct and related.	b) Both assertion and reason are correct but unrelated.					
c) Assertion is incorrect, reason is correct.	d) Both assertion and reason are incorrect.					
27. Assertion: Birth rate is the primary factor influencing pop						
Reason: Death rate has a lesser impact on population growth.						
a) Both assertion and reason are correct and related.	b) Both assertion and reason are correct but unrelated.					
c) Assertion is incorrect, reason is correct.	d) Both assertion and reason are incorrect.					
28. Assertion: Population density affects the distribution of o	rganisms.					
Reason: Organisms compete for resources.						
a) Both assertion and reason are correct and related. b) Both						
c) Assertion is correct, reason is incorrect.	d) Assertion is incorrect, reason is correct.					
29. Assertion: Carrying capacity is the maximum population	size an environment can support.					
Reason: Resources are limited.	according and reason are correct but unrelated					
a) Both assertion and reason are correct and related. b) Both	d) Assertion is incorrect, reason is correct.					
c) Assertion is correct, reason is incorrect.						
30. Assertion: Exponential growth occurs when resources are	diffillited.					
Reason: Population growth rate remains constant.	assertion and reason are correct but unrelated.					
a) Both assertion and rough	c) Assertion is incorrect, reason is correct.					
c) Assertion is correct, reason is incorrect.						
MATHEN	<u>MATICS</u>					
1. The value of $sin\left(sin^{-1}\frac{1}{3}+sec^{-1}3\right)+cos\left(tan^{-1}\frac{1}{2}+tos\right)$ (b) 1 (c) 3 (2) Two dice are thrown together. If the numbers appearing to	$m^{-1}2$) is					
(a) 2 (b) 1 (c) 3	(d) 4					
2) Two dice are thrown together. If the numbers appearing of	on the two dice are different, then what is the probability					
at a the same in 6						
(a) $\frac{2}{15}$ (c) $\frac{1}{6}$	(d) None of these					
that the sum is 6 (a) $\frac{2}{15}$ (b) $\frac{5}{36}$ (c) $\frac{1}{6}$ 3) $\int_{0}^{\pi} \frac{\sqrt{\cot x}}{\sqrt{\cot x} + \sqrt{\tan x}} dx = \frac{1}{15}$						
$\int_{0}^{\infty} \sqrt{\cot x} + \sqrt{\tan x} dx = \frac{\pi}{1 + \frac{1 + \frac{\pi}{1 + \frac{1 + \frac{1 + \frac{\pi}{1 + \frac{\pi}{1 + \frac{1}{1 + \frac{1}{1 + \frac{1+ + \frac{1}{1 + \frac{1+ \frac{1+ + \frac{\pi}{1 + 1+ + \frac{1+ + \frac{1+ + \frac{1+ + \frac{1+ + \frac{1+ + + \frac{1+ + + + + + + + + + + + + + + + + + + $	(d) 0					
(a) $\frac{\pi}{4}$ (b) $\frac{\pi}{2}$	(4) 0					
(a) $\frac{\pi}{4}$ (b) $\frac{\pi}{2}$ (c) π (d) 0 4. $\lim_{x\to \infty} \frac{e^{x^2-\cos x}}{x^2}$ is equal to						
2	(d) None of these					
(a) $\frac{2}{3}$ (b) $\frac{2}{2}$						

(c) (1), (2), (4)

(a) (1), (3), (4)

(b) (2), (3), (4)

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4 1878e	1695	2×10	3h Kara + 3h	1.
1		V + 2 × 10 5 × 4	(Rth) To 22 S	2
		<u>C</u>	\$ 10 × 5	
		halide component for Frie	del-Crafts reaction?	
(a) Chlorobenzene	(b) Bromobenzene	(c) Chloroethene (i	d) Isopropyl chloride	
			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
	j	PHYSICS	a hallow	
Q1. A solid conductin	g sphere having a charg	e Q is surrounded by an ur	ncharged concentric conducting hollow	
spherical shell. Let th	e potential difference be	etween the surface of the s	olid sphere and that of the outer surface of	()
	. If the shell is now giver	a charge of -3Q, the new p	notential difference between the same two	•
surfaces is	(b) 2V	(c) 4V	(d)- 2V	
(a) V	of radius Am having a a	(c) 44 bargo g1 = 2x10-5 C is unifo	rmly distributed over it. Another particle	
Q2. An insulated ring	v 10-4 C is released from	narge qr = 2x10	ance x=3m from its centre. Mass of both ring	
naving charge 42 - 4	ra each Neglect gravitat	sional effects. Ring is free to	move. Maximum speed of particle will be	1
(a) 4.4 m/s	(b) 3.1 m/s	(c) 5.2 m/s	(d) 6.1 m/s	//
O3 You are given an			eparated by equal finite distances so that	20
electric notential ene	ergy of the system is zero	o Then the value of x is		
(a) -¾	(b) -1/3	(c) ¾	(d) 3/2	L
	• •		and the form the Following and	
Q4. In a certain regio	on of space, there exists	a uniforn and constant elec	tric field of strength E along x-axis and	
uniform and constan	t magnetic field of indu	ction B along z-axis. A charg	ed particle having charge q and mass m is	
projected with speed	v parallel to x-axis from	n a point (a, b, o), when the	particle reaches a point (2a, b/2, 0) its speed	/
		strength in terms of, m, v ar (c) 2mv²/qb.	(d) mv²/2qa	
(a) 3mv²/2qa.	(b) mv²/qb.		exists towards negative y-axis. What should be	е
Q5. An electron is mo	Oving along positive x an	Als. A difform electric field c		
	netic tield at suitable ma	agnitude so that net force o	n electron is zero ?	
100		agnitude so that net force o	n electron is zero ? (d) negative y-axis	
Positive z-axis	(b) negative z-axis	(c) positive y-axis	(d) negative y-axis	
Positive z-axis	(b) negative z-axis	(c) positive y-axis	(d) negative y-axis d helium atom and hydrogen atom (both in	
Positive z-axis a6. The ratio between ground state) is	(b) negative z-axis en total acceleration of t (b) 8	(c) positive y-axis the electron in singly ionized (c) 4	(d) negative y-axis d helium atom and hydrogen atom (both in (d) 16	
Positive z-axis 6. The ratio between ground state) is (a) 1 Q7. The shortest was	(b) negative z-axis en total acceleration of t (b) 8 avelength of the Bracket	(c) positive y-axis the electron in singly ionized (c) 4 series of a hydrogen like at	(d) negative y-axis d helium atom and hydrogen atom (both in (d) 16 com (atomic number = Z) is the same as the	
Positive z-axis 6. The ratio between ground state) is (a) 1 Q7. The shortest was	(b) negative z-axis en total acceleration of t (b) 8 avelength of the Bracket	(c) positive y-axis the electron in singly ionized (c) 4 series of a hydrogen like ath	(d) negative y-axis d helium atom and hydrogen atom (both in (d) 16 com (atomic number = Z) is the same as the of Z is	
(a) 1 Q7. The shortest was shortest wavelength	(b) negative z-axis en total acceleration of t (b) 8 avelength of the Bracket n of the Balmar series of (b) 3	(c) positive y-axis the electron in singly ionized (c) 4 series of a hydrogen like at hydrogen atom. The value of	(d) negative y-axis d helium atom and hydrogen atom (both in (d) 16 om (atomic number = Z) is the same as the of Z is (d) 6	
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(a) Positive z-axis ground state) is (a) 1 Q7. The shortest was shortest wavelength (a) 2 Q8. According to Boand its radius in the	(b) negative z-axis en total acceleration of t (b) 8 evelength of the Bracket n of the Balmar series of (b) 3 ehr's theory of hydrogen	(c) positive y-axis the electron in singly ionized (c) 4 series of a hydrogen like at hydrogen atom. The value of the binatom, the product of the binatom,	(d) negative y-axis d helium atom and hydrogen atom (both in (d) 16 om (atomic number = Z) is the same as the of Z is (d) 6 Inding energy of the electron in the nth orbit	
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