MA

Class: 10

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SECOND MID TERM TEST - 2024

Time Allowed: 1.30 Hours]		63271	SCIENCE PART - I			[Max. Marks: 50		
l.	Ch	oose the correct	answ	ouTube/ Akw er.	a A	cademy		10x1=10
<u>1.</u>	Spe	eed of sound wave	s in ai	r at NTP is				
	a)	340 ms ⁻¹	b)	34 x 10 ⁴ ms ⁻¹	c)	3x108 ms-1	d)	none of these
2.	Pho	otolysis is a decon	npositio	on reaction cause	d by	irma. Carlos Ar	ier	4
	a)	heat	b)	electricity	c)	light 2000000	d)	Mechanical energy
3.	The	e frequency, which	is aud	ible to the human	ear i	s		
	a)	50 kHz	b)	20 kHz	c)	15000 kHz	d)	10000 kHz
4.	Uni	it of Radioactivity i	S					and the state of t
		roentgen		그 그들은 하는 그리고 그리고 있다.			d)	All the above
5.	In v	which of the follow	ing the	mass number of	daug	hter nucleus de	crea	ses by four
	a)	α decay	b)	β decay	c)	γ decay	d)	Neutron decay
6.	The	use and disuse t	heory v	was proposed by		TOP TOP IS IS	Aliza I	is the contract of the same
	a)	Charles Darwin	b)	Ernst Haeckel	c) Je	an Baptiste Lan	nark	d) Gregor Mendel
7.	The	P ^H of the solution	ı is 3. l	ts [OH·] concentra	ation i	s		
5.2	a)	1x10³M	b)	3M	c)	1x10 ⁻¹¹ M	d)	11M 20 200 200 191
8.	We	can cut the DNA	with the	e help of 1000 He	reve		er starre	an in the spirit of the state of
	a)	scissors			b)	Restriction en	donu	ıcleases
	c)	Knife		Aprilant Notice The second of t	d)	R.N. Aase		Ton Berneld (b.
9.	The	term Ethnobotan	y was	coined by	i Na us	to the little in the		
	a)	Khorna	b)	J.W. Harshberge	er c)			
10.	Pus	a Komal is a disea				(80)		
	a)	Sugar cane		rice Osympolisms	c)	cow pea	d)	maize
1		Yalgi-				, , , , , , , , , , , , , , , , , , ,		TPR / J/10 / Sci / 1
		setting a set of a						1110/3/10/30/11

PART - II

II. Answer any Briefly (any 5). Q.No.18 is compulsory.

5x2=10

- 11. What is a longitudinal wave?
- 12. Mention two cases in which there is no Doppler effect in sound?
- 13. Difference between Nuclear fission and fusion.
- 14. Define combination reaction. Give one example for an exothermic combination reaction.
- 15. Why is Archaeopteryx considered to be a connecting link?
- 16. Define Genetic engineering.
- 17. Name two maize hybrids rich in amino acid lysine
- 18. A Sound wave has a frequency of 200 Hz and the speed of 400 ms⁻¹ in a medium. Find the wavelength of the sound wave.

PART - III

III. Answer any four questions. (Question number 24 is compulsory)

4x4=16

- 19. a) Why does sound travel faster on a rainy day than a one a dry day? (2)
 - b) 'Why does empty vessel produce more sound than a filled one? (2)
- 20. State soddy and Fajan's law.
- 21. Differentiate reversible and irreversible reactions.
- 22. State the applications of DNA finger printing technique.
- 23. Define Ethanobotany and write its importance.
- 24. What is PH of 1x10-5 molar solution of KOH.

PART - IV

IV. Answer Briefly:

2x7=14

- 25. a) What do you understand by the term Ultrasonic Vibration?
 - b) State 3 uses of Ultrasonic Vibrations?
 - c) Name 3 animals which can hear ultrasonic Vibrations.

(OR)

Compare the properties of alpha, beta and gamma radiations.

26. How does Ph play an important role in everyday life.

(OR)

With neat labelled diagram explain the techniques involved in gene cloning.

TPR/J/10/Sci/2.

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