SECOND MID TERM TEST - 2023

Standard - X

Time : 1.30 hrs	SCIENCE		Marks: 50
	Part -		
I. Choose the correct:	answer.	•	10×1=10
1) Velocity of sound	in a gareous e	edium is 330ms! I	the pressure is
		ng a change in the t	
velocity of sound	t in the one is	ng a change in the t	Citipation
a) 330ms !	b) 660mm!	c) 156ms 1	d) 990ms 1
2) The frequency w	high is middle to	o the human ear is	
a) 50 KHz	p) 30 KHz	c) 15000 KHz	d) 10000 KHz
3) Unit of radioacti	uitu in	•	
a) roentgen	b) curie	c) becquere!	d) all the above
4) Kamini reactor i	s located at	c) becquere.	
a) Kalpakkam	b) Koodankula	ım c) Mumbai	d) Rajasthan
		action caused by _	
) light d) mech	
		BaCl BaSO411 1+ 2	
	llowing types of		(41)
		c) Precipitation d) S	ingle displacement
7) The 'Use and o			mg o cop
		b) Erust Haeckel	
		d) Gregov Mendel	
8) The lerm Ethne			
a) Khorana		b) J.W.Harsbberger	
c) Ronald Ross		d) Hugo de Vries	
		int variety of	•
		c) cowpea	
10) We can cut th			o) malec
a) Scissors	h) restriction	endonucleases	c) Knife d) RNAase
b) 50135013		t - II	c) tome _d) thenase
II. Answer any (5) of t		.7	omnuleonil Ev2-46
		hear ultrasonic vibra	
12) Write the exp		near unasonic viora	auons.
		lamant in True as F	alaa M fat
the statement		tement is true of F	alse. If false, correc



CS CamScanner

(2) X SCIE	ENCE
 a) Elements having atomic number greater than 83 can undergo re 	uclear
lusion	
b) Invitro fertilization means fertilisation done inside the body	
14) Name two maize hybrids rich in amino acid lysine	
15) Name the types of stem cells	
16) Why is Archaeopteryx considered to be a connecting link?	
17) Use the analogy to fill in the blank.	K 9
 Spontaneous process: Natural Radioactivity; 	
Induced process	
ii) Deflected by electric field a ray	
Null deflection	•
18) If the P" of a solution is 4.5. What is its Port?	
Part - III	4 4 4
III. Answer briefly. (any four) (Q.No.25 compulsory)	4×4=16
19) Mention the conditions for no Doppler effect	
20) Match .	
a) Fuel - i) Lead	
b) Moderator - ii) Heavy water	
c) Coolant - iii) Cadmium rods	
d) Shield - iv) Ilranium	
21) State Soddy and Fajan's displacement law	
22) Differentiate Reversible and irreversible reactions	
23) Define Ethnobotany and write the importance?	
24) Differentiate between outbreeding and inbreeding	uble the
25) At what temperature will the velocity of sound in air be do	uble the
velocity of sound in air at 0°C?	
Part - IV	2×7=14
IV. Answer in detail:-	2-1-1-
26) i) What is an echo?	
ii) State the conditions necessary for hearing an echo.	100
iii) What are the medical applications of echo?	
iv) How can you calculate the speed of sound using echo	? [or]
How does PH play an important role in everyday life?	^
27) How do you differentiate homologous organs from analogous	organ / [or
Discuss the importance of biotechnology in the field of me	adicine.
****/****	
A.	