V10S

Virudhunagar District Common Second Mid Term Test - 2023

Standard 10

Time:	1 30	Hrs
Lime:	1.50	1113.

SCIENCE

Marks: 50

8×1=8

_		the correct i	answer:		8×1=8			
I.	Cho	Thoose the correct answer: 1) The minimum distance between the sources of sound and the obstacle to						
	1)	hear the echo, sh	ould be					
			b) 20m	c) 25m	d) 50m			
		0/ 2/	tivity was discove					
	2)				d) Nelis Bohr			
	21	a) Bequerel	for the treatment					
	3)	a) Padia Indina	b) Padio Cobalt	c) Radio Carbon	d) Radio Nickel			
	4.	a) Radio Iodine	an aqueous solu	ution which contains	about of			
	4)		Tion was					
		ethanol.	b) 75 50/a	c) 55.5%	d) 45.5%			
a) 95.5% b) 75.5% c) 55.5% d) 45.5% 5) The bestway of direct dating fossils of recent origin is by								
	5)							
		a) Radio carbon i	Heeriou					
	c) Potassium - argon methodd) Both aPusa Komal is a disease resistant variety of							
	6)			c) Cow pea	d) Maize			
	٦,	a) Sugarcane			•			
	 Tobacco consumption is known to stimulate secretion of adrer The component causing this could be 							
				c) Curcumin	d) Leptin			
	2)	a) Nicotine						
	8)		co Day' is observe b) June 6		d) October 2			
		a) May 31	b) Julie 0	C) April 22	u) cons =			
	_	4407.6	Ainmai		6×2=12			
II. Answer ANY 6 questions:								
	[Qı	uestion No. 11 is compulsory]						
9) Why does sound travel faster on a rainy day than on a dry day?								
		0) Write any three features of natural and artificial radioactivity.						
	11)	11) If the pH of a solution is 4.5. What is its POH?						
	12) Why is Archaeopteryx considered to be a connecting link?13) Name two maize hybrids rich in amino acid Lysine.14) Differentiate between outbreeding and inbreeding.							
		 What is Metastasis? What are the various routes by which transmission of HIV takes place? 						
	HIV takes blace:							

III. Answer ANY 4 questions:

 $4 \times 4 = 16$

[Question No. 18 is compulsory]

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

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- 18) a) If A is a radioactive element which emits an α (alpha) particle and produces $_{104}$ Rf²⁵⁹. Write the atomic number and mass number of the element A.
 - b) What is the average energy released from a single fission process?
- 19) Differentiate soaps and detergents.
- 20) How does pH play an important role in everday life?
- 21) What are the effects of hybrid vigour in animals?
- 22) Natural Selection is a driving force for evolution How?

IV. Answer ALL questions:

2×7=14

[Draw diagrams wherever necessary]

- 23) a) What is nuclear reactor?
 - b) Explain its essential parts with their functions.

(OR)

- a) What is called homologous series? Give any of three its characteristics.
- b) Name the simplest Ketone and give its structural formula.
- 24) a) How do you differentiate homologous organs from analogous organs?
 - b) Define Ethnobotany. (OR)Suggest measures to overcome the problems of an alcoholic.