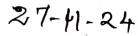
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Tenkasi District

Common Second Mid Term Test - 2024



Time: 1.30 Hours

Standard 10 SCIENCE

PART - I

10×1=10

Marks: 50

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1)	The minimum distance needed for an echo is					
	a) 17.2 m	b) 17.5 m	c) 17.8 m	d) 17.6 m		
2)	The frequency which is audible to the human ear is					
	a) 50 KHz	b) 20 KHz	c) 15000 KHz	d) 10000 KHz		
3)) The S.I unit of radioactivity is					
			c) becquerel			
4)	aprons are used to protect us from gamma radiations					
			c) Lead			
5)	Photolysis is a decomposition reaction caused by					
	a) Heat		b) Light			
	c) electricity	¥ 7,	d) mechanical ener	gy		
	Rectified spirit is an aqueous solution which contains about o					
-	ethanol ,			,		
	•		c) 55.5%	d) 45.5%		
7)	The term Ethnobotany was coined by					
			c) Ronalad Ross			
8)	The best way of direct dating fossils of recent origin is by					
	a) Radio - carbon method c) Potassium - argon method					
9)	Pusa Komal is a disease resistant variety of					
	a) sugarcane	b) rice	c) cow pea	d) maize		
LO)	World 'No Tobacco Day' is observed on					
	a) May 31	b) June 6	c) April 22	d) October 2		

PART-II

II. Answer any 7 questions: Q.No. 20 is compulsory.

7×2=14

- 11) Name three animals which can hear Ultrasonic Vibrations
- 12) Explain why the ceilings of concert halls are curved?
- Arrange in descending order on the basis of their penetration power Alpha rays, Beta rays, Gamma rays, Cosmic rays.
- 14) Say true or false
 - i) Silver metal can displace hydrogen gas from nitric acid.
 - ii) The normal pH of human blood is 6.4
- 15) Name the simplest ketone and give its structural formula
- 16) Why is Archaeopteryx considered to be a connecting link?
- 17) Define genetic engineering
- 18) Expand (i) HIV (ii) BMI
- 19) How are e-wastes generated?
- 20) If the pH of a solution is 4.5. What is its POH?

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PART-III

III. Answer any 3 questions: Q.No. 25 is compulsory.

3×4=12

- 21) a) What is the audible range of frequency
 - b) Mention two cases in which there is no Doppler effect in sound.
- 22) Differentiate reversible and irreversible reactions.
- 23) State the applications of DNA finger printing technique.
- 24) How can you determine the age of the fossils?
- 25) If A is a radioactive element which emits alpha particle and produces ₁₀₄Rf²⁵⁹. Write the atomic number and mass number of the element A.

PART - IV

IV. Answer all the questions:

2×7=14

26) a) Compare the properties of alpha, beta and gamma radiations.

(OR)

- b) The molecular formula of an alcohol is $C_4H_{10}O$. The locant number of its -OH group is 2 $\leq VAKVMAR_-M$
 - i) Draw its structural formula

Sri Ram matric HSS

- ii) Give its IUPAC name
- iii) Is it saturated or unsaturated
- Vallem-627809 Tenkasi District.
- 27) a) i) Differentiate between outbreeding and inbreeding?
 - ii) What are transgenic organisms?

(OR)

- b) i) What is metastasis?
 - ii) Suggest measures to overcome the problems of an alcoholic