V9S

Virudhunagar District

Common Half Yearly Examination - December 2025

Standard 9

Time: 3.00 Hrs.

SCIENCE

Marks: 75

	P	art - I	
Choose	the correct answer:	12×1=12	
1)	Choose the correct one.		
	a) mm < cm < m < km	b) mm > cm > m > km	
	c) km < m < cm < mm	d) mm $>$ m $>$ cm $>$ km	
2)	Clouds float it atmosphere because of their low		
		c) velocity d) mass	
3)	Which of the following converts	s electrical energy into mechanical energy?	
		c) Generator d) Switch	
4)	When we mix a drop of ink in w		
	a) Heterogenous mixture	b) Compound	
	c) Homogenous mixture		
5)	Modern periodic law states th	at the physical and chemical properties of	
		tions of their	
		nasses c) similarities d) anomalies	
6)	Number of valence electrons in		
- 1 , St.	a) 2 b) 4	c) 3	
7)	Identify the animal having four chambered heart.		
		c) Crocodile d) Calotes	
8)	Excretory organs of tapeworm		
	a) flame cells b) nephridi	a c) body surface d) solenocytes	
9)	Which of the following is a com		
. The six	a) Parenchyma b) Collench	yma c) Xylem d) Sclerenchyma	
10)	The structural and functional unit of kidney is		
		c) nephron d) ureter	
11)	The physician who discovered	that scurvy can be cured by ingestion of	
	citrus fruits is		
	a) James Lind b) Louis Pa	steur c) Charles Darwin d) Isaac Newton	
12)	Which of the following is transmitted through air?		
	a) Tuberculosis b) Meningi	tis c) Typhoid d) Cholera	
		art-II	
Answe	any 7 questions: [Q.No. 22 is	compulsory] 7×2=14	
13)	Define velocity.	File (1994) Marion Spile (1912) File (1917)	
14)	On what factors the pressure e	exerted by the liquid depends on?	
	State Fleming's Left Hand Rule.		
	What are the uses of 'Plaster of Paris'?		
- Tr	What is nematocyst?		
	Mention any two vital function	s of human kidney.	
	What is an adulterant?	AND THE RESERVE OF THE PARTY OF	
	Define Prions.	the health and a section of the	

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V9S 21) Fill in the blanks:
Cumbont
6CO ₂ + + 6O ₂ ↑
22) If a man has a mass 50 kg on the earth, then what is his weight?
Part - III
Answer any 7 questions: [Q.No. 32 is compulsory] 7×4=28
23) How will you find the thickness of a one rupee coin?
24) a) State Pascal's law.
b) Why it is easy to swim in river water than in sea water?
25) Explain two types of transformer.
26) List down the differences between Ionic and Covalent compounds.
27) Write any four uses of bases.
28) a) Match it:
Coeleterata - Snail
Platyhelminthes - Starfish
Echinodermata - Tapeworm
Mollusca - Hydra
b) Why are frogs said to be amphibians?
29) Write about elements of xylem.
30) How are vitamins useful to us? Tabulate the deficiency diseases caused by
vitamins.
31) Suggest the immunization schedule for a new born baby till 12 months of age?
32) a) Find the radius of curvature of a concave mirror whose focal length is 5 cm.
 b) Calculate the number of neutrons in the following atoms.
(i) ¹⁹⁶ ₇₆ OS (ii) ⁵⁴ ₂₄ Cr
Part - IV
Answer all questions: 3×7=21
33) Describe the construction and working of mercury barometer.
(OR) 1446
Draw a neat diagram of an AC generator and explain its working.
(34) a) Explain Tyndall effect and Brownian movement with suitable diagram.
b) Define Sublimation. (OR)
a) Explain the postulates of Bohr's atomic model.
b) Sulphuric acid is king of chemicals. Why is it called so?
c) Define aquaregia.
35) a) Give an account of Phylum Arthropoda.
b) List five characteristic features of fishes.
(OR)
a) List out the differences between mitosis and meiosis.
b) Match it:
Skin - Urine
Lungs - Sweat
Intestine - Carbon dioxide
Kidneys - Undigested food
. 선수보는 그 경기를 가는 전에 대한 사람들이 되는 것이 되는 것이 되는 것이 되었다. 그는 그렇게 되는 것이 없다면 하는 것이 되었다면 하는데 되었다면 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 되었다면 하는데 되었다면 되었다면 하는데 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면