V9S

## Virudhunagar District

## Common Quarterly Examination - September 2024

Standard 9

Time: 3	.00 Hrs.	SCIENCE		Marks: 75
I. Cho	ose the correct an	swer:		12×1=12
1) 1 metric ton is equal to				
		b) 10 quintals	c) 1/10 quintals	d) 1/100 guintals
2)	The centrifugal for		, -,	, _, _, _ ,
	a) a real force	b) the force of reaction of centripetal force		
		d) directed towards the centre of the circular path		
3)	Clouds float in atmosphere because of their law			
		b) pressure		d) mass
4)		lenser particles from		
	high speed is called			
	a) filteration	b) sedimentation	c) decantation	d) centrifugation
5)		ame properties throu		
	a) Pure substance	b) Mixture	c) Colloid	d) Suspension
6)	The term nuclions refer to			
	a) protons and elec	ctrons	b) only neutrons	
	c) electrons and ne	eutrons	d) protons and neu	ıtrons
7)	7) Elements in the modern periodic table are arranged in gr			groups and
	periods.			
	a) 7, 18	b) 18, 7	c) 17, 8	d) 8, 17
8)	Find the group having only marine members.			
	a) Mollusca	b) Coelenterata	c) Echinodermata	d) Porifera
÷ 9)	The animal without	skull is .		
		b) acephalia		_
10)	The tissue composed of living thin walled polyhedral cell is			
		b) Collenchyma	c) Scelerenchyma	d) None of above
11)	) Aerenchyma is found in			
	a) epiphytes	b) hydrophytes		d) xerophytes
12)	) The tropic movement that helps the climping vines to find a suitable sup			suitable support
	is			
	a) phototropism	b) geotropism	c) thigmotropism	d) chimotropism
II. Answer very briefly: [Write any seven only] 7x2=14				
[Question No. 15 is compulsory] 13) Differentiate Mass and Weight.				
	On what factors the pressure exerted by the liquid depends on?  A block of wood of weight 200g floats on the surface of water. If the volume			
13)	A block of wood of weight 200g floats on the surface of water. If the volume of block is 300 cm <sup>3</sup> , calculate the upthrust due to water.			
16)	A few drops of Dettol when added to water the mixture turns turbid. Why?			
	What is the same about the electron structure of			
/	a) Lithium, Sodium and Pottassium			
		esium and Calcium		

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- 18) State modern periodic law.
- 19) What is nemotocyst?
- 20) List the characteristic features of fishes.
- 21) What is complex tissue? Name the various kinds of complex tissues.
- 22) Differentiate phototropism from photonasty.

## III. Answer in detail: [Answer any seven only]

 $7 \times 4 = 28$ 

## [Question No. 32 is compulsory]

- 23) How will you find the thickness of a one rupee coin?
- 24) Differentiate:
  - a) Distance and Displacement
  - b) Speed and Velocity
- 25) With an appropriate illustration prove that the force acting on a smaller area excerts a greater pressure.
- 26) Write the differences between elements and compounds and give an example for each.
- 27) What conclusions were made from the observations of gold foil experiment?
- 28) What are the limitations of Mandaleev's periodic table?
- 29) Give an account on Phylum Annelida.
- 30) Suppose you have a rose plant growing in a pot, how will you demonstrate transpiration in it?
- 31) Mention differences between stomatal and lenticular transpiration.
- 32) Calculate the number of neutrons in the following atoms.
- (a)  $_{13}AI^{27}$  (b)  $_{15}P^{31}$  (c)  $_{76}OS^{190}$
- (d) <sub>24</sub>Cr<sup>54</sup>

IV. Answer in detail:

 $3 \times 7 = 21$ 

33) Explain different types of motion.

(OR)

Describe the construction and working of Mercury barometer.

34) Explain Tyndall effect and Brownian movement with suitable diagram.

(OR)

Explain the postulates of Bohr's atomic model.

35) Give an account on Phylum Arthropoda.

(OR)

List out the differences between mitosis and meiosis.