# Tsi10S

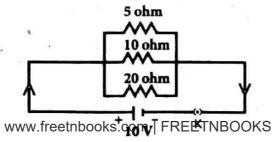
#### **Tenkasi District**

# Common Quarterly Examination - September 2025



# Standard 10

Time: 3.00 Hrs. SCIENCE				Marks: 75	
I.	Cho	ose the correct an	12×1=12		
9	1)	One kilogram force equals to			
		a) 9.8 dyne	b) 9.8×10 <sup>4</sup> N	c) 98×10 <sup>4</sup> dyne	d) 980 dyne
	2)	The eye defect 'presbyopia' can be corrected by			
		a) convex lens	b) concave lens	c) convex mirror	d) bi focal lenses
	3)	Unit of electrical conductivity is			
			b) ohm c) oh		l) mho <sup>-1</sup> metre <sup>-1</sup>
	4)	Mass of 1 mole of r	itrogen atom is		
			b) 14 amu		d) 14 g
	5)	Molecular formula for Epsom salt is a) CuSO <sub>4</sub> .5H <sub>2</sub> O b) MgSO <sub>4</sub> .7H <sub>2</sub> O c) CaSO <sub>4</sub> .2H <sub>2</sub> O d) FeSO <sub>4</sub> .7H <sub>2</sub> O			
					d) FeSO <sub>4</sub> .7H <sub>2</sub> O
	6)	group conta			
	٦١,			c) 18th	d) 16th
	/)	Mammals are			
	0)			c) poikilothermic	d) all the above
	8)	During transpination			
	0)			c) water d) n	
	9)	Which nervous ban	h) hymothology	cerebrai nemispher	es of brain
	10)	a) trialarilus	b) hypothalamus	c) pons d) c	orpus callosum
	10)	causes stom		c) abscisic acid	d) matalainin
	. 11)	Syngamy results in			a) cytokinin
	11).				chlamydocnoros
	a) zoospores b) conidia d) zygote d) cl 12) Okasaki fragments are joined together by				cinamydospores
	12)			.c) DNA polymerase	d) DNA Drimor
		a, DIVA Ligase	b) Helicase	c) DIVA polymerase	u) KNA Primer
II. Answer any seven questions. Q.No. 22 compulsory: $7 \times 2 = 14$					
13) Why are traffic signals red in colour?					//2-14
		State Charles Law.			
28		State True or False if false give the correct statement:			
	15)	AND SECURIORS IN THE SECURIOR			
		a] Noble gases are		b] Molar mass of C	O <sub>2</sub> is 42 g
	( Table 1)	The aquatic animals live move in cold region. Why?			
		Write the reaction for photosynthesis.			
	18)	How are arteries and veins structurally different from one another?			another?
	19).	<ul><li>What is bolting? How can it be induced artificially?</li><li>Draw the structure of gynoecium and label its parts.</li></ul>			
	20)				
	21)	What are Okazaki Fragments?			
e,	22) Find the effective resistance of the given circuit.				
		*	5 ohm		
		The state of the s			



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# III. Answer any 7 questions. Q.No. 32 compulsory:

7×4=2

- 23) a] While catching a cricket ball the fielder lowers his hands backwards. Why?
  - b] State Shell's Law.
- 24) List the merits of LED bulb.
- 25) a] State Ohms Law.
  - b] Distinguish between Ideal gas and Real gas.
- 26) a] Define: Atomicity
  - bf Write about the uses of Aluminium.
- Differentiate Aerobic and Anaerobic respiration.
- ·28) a] Who discovered Rh factor? Why was it named so?
  - b) Define reflex arc.
- 29) Write the differences between endocrine and exocrine gland.
- 30) a] Match the following:
  - i) Fission

Spirogyra

ii) Budding

Hydra

iii) Fragmentation

Amoeba

iv) Regeneration

Yeast

- b] Define triple fusion.
- 31) Draw the chromosomes based on the position of centromere.
- 32) 3.5 litres of ethanol is present in 15 litres of aqueous solution of ethanol Calculate volume percent of ethanol solution.

### IV. Answer all the questions:

3×7=21

- a) State Newton's Second Law.
  - b) Differentiate the eye defects. Myopia and hypermetropia.

#### (OR)

- a) Why is tungsten metal used in bulbs, but not in fuse wires?
- b) Derive the ideal gas equation.
- 34) a) Differentiate atoms and molecules.
  - b) Derive the relationship between relative molecular mass and vapour densit.

#### (OR)

- a) What is amalgam?
- b) In what way hygroscopic substances differ from delignescent substances
- 35) a) What is respiratory quotient?
  - b) Illustrate the structure and funcitons of brain.

#### (OR)

- a) Why are thyroid hormones referred as personality hormone?
- b) With a neat labelled diagram describe the parts of a typical angiospermic ovule

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