Tsi10S	Tenkasi District		\square
101100	Common Quarterly Examination - 2023		un
Standard 10			
Time: 3.	00 Hours SCIENCE		Marks: 75
	Part - I		
I. Choose the correct answer. 12x1=12			
 In which of the following sport the turning of effect of force used. 			
	a) swimming b) tennis	c) cycling	d) hockey
2)	Power of a lens is -4D, then its focal le	ength is	
/	a) 4 M b) -40 M	c) -0.25 M	d) –2.5 M
3)	The value of universal gas constant is		
/	a) 83.1 Jmol ⁻¹ K ⁻¹	b) 8.31 Jmol ⁻¹ K ⁻¹	
e	c) 0.831 Jmol ⁻¹ K ⁻¹	d) 831 Jmol ⁻¹ K ⁻¹	
· 4)	Kilowatt hour is the unit of		
,	a) vesistivity	b) conductivity	
	c) electrical energy	d) electrical power	
5)	The volume occupied by 1 mole of a di	atomic gas at S.T.P	is
5)	a) 11.2 litre b) 5.6 litre	c) 22.4 litre	d) 44.8 litre
6)	is called the 'Universal solvent'		
-,	a) Water b) Mercury	c) Ethanol	d) Methanol
7)	Which is formed during anaerobic respiration		
,	a) Carbohydrate b) Ethyl alcohol	c) Acetyl CoA	d) Pyruvate
8)	Normal blood pressure is		
	a) 80/120 mmHg b) 120/80 mmHg	c) 70/110 mmHg	d) 110/70mmHg
9)	controls visual and auditory reflexes		
	a) cerebettum	b) pons	*
	c) thalamus	d) corpora quedrige	mina
10)	Which one is referred as "Master Gland	"?	
	a) Pineal gland b) Pituitary gland	c) Thyroid gland	d) Adrenal gland
11)	Syngamy results in the formation of		
	a) Zoospores	b) Conidia , 🦂	
	c) Zygote	d) Chlamydospores	
12)	The ratio of seeds in a dihyprid cross in	n F2 generation is	
	a) 9 : 3 : 1 b) 9 : 3 :3 :2	c) 9 : 3 : 3 : 3	d) 9:3:3:1
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Part - II			
II. Answer any 7 questions. Q.No. 22 compulsory. 7x2=14			
12) Chata Neuton's cocond Law			

- 13) State Newton's second Law.
- 14) Define one Caloric.
- 15) Give any two examples for hetero diatomic molecules.
- 16) A is a silvery white metal. A combines with O_2 to form B at 800°C, the alloy of A is used in making the aircraft. Find A and B.
- 17) Draw and label the structure of chloroplast.
- 18) Match the following.

Membraxious covering

- Organs 1) Brain
- a) Pleura
- 2) Kidney b) Capsule
- 3) Heart
- c) meninges
- 4) Lungs d) pericardium

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- 19) State whether True or False. If false write the correct statement. Estrogen is secreted by Corpus Luteum.
- 20)- How does binary fission differ from multiple fission.
- 21) What are Okazaki fragments?
- 22) A torch bulb is rated at 3V and 600 mA. Calculate its a) Power b) Resistance.

Part - III

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

7×4: 18

23) a) Differentiate mass and weight.

- b) State Boyle's Law
- 24) Differentiate the eye defects: Myopia and Hypermetropia.
- 25) a) Name any two devices, which are working on the heating effect of the electric current.
 - b) List the merits of LED bulb.
- 26) a) Define Relative Atomic mass
 - b) State two conditions necessary for rusting of iron.
- In what way hygroscopic substances differ from deliquescent substances.
- Draw and label the T.S. of a dicot root.
- 29) Enumerate the functions of blood.
- 30) a) Name the parts of the hindbrain
 - b) Differentiate Voluntary actions and Involuntary actions.

a) spirogyra

- 31) a) What is bolting? How can it be induced artificially? SIVAKUMAR. M, Sri Ram Matric HSS Vallam- 627809 Tenkasi Dist.
 - b) Match the following
 - Column I Column II
 - 1) Fission -
 - 2) Budding b) Amoeba
 - 3) Fragmentation c) Yeast
 - 4) Regeneration d) Hydra -
- 32) Calculate the number of water molecule present in one drop of water which weighs 0.18g.

Part - IV

IV. Answer all the guestions. Each questions carries seven marks. 3×7=21 Draw diagram wherever necessary.

- 33) a) Describe rocket propulsion.
 - b) Write applications of concave lenses.

(OR)

- a) Derive the ideal gas equation.
- b) State Avogadro's Law
- Give the salient features of "Modern atomic theory".
 - b) Define Atomicity.

(OR)

- a) Write notes on various factors affecting solubility?
- b) What is rust? Give the equation for formation of rust.
- a) Explain the male reproductive system of rabbit with a labelled diagram.
 - b) Write the dental formula or rabbit.

(OR)

- With a neat labelled diagram describe the parts of a typical angiospermic ovule.
- b) Write the differences between endocrine and exocrine gland.