				or of the state of
			Register No.	
		X Std. M	Ionthly Test, July	- 2019
	Tim	e : 2-00 Hours]	SCIENCE	[Maximum Marks : 50
			Part-I	$10 \times 1 = 10$
		ose the correct answer		
	1.	Plotting a graph for m	nomentum on the X-axis and	time on Y-axis. Slope of
		momentum-time grap		
	_		b) Acceleration c) Force	
	2.		. It can be also expressed as	
	_		c) N m² kg-1 d) cm² s-	2
	3.	The CGS unit of Force		
			ogram c) Dyne d) kg f	
	4.		by 4.4 g of CO2 at S.T.P	
			24 litre c) 0.24 litre	d) 0.1 litre
	5.	Atoms with different a		and the triber
	, ·		topes c) Chemical reaction	d) nuclear reaction
	6.	Kreb's cycle takes plac		
			mitochondrial matrix c) st	tomata
		d) inner mitochondrial	1	
	7.	Photosynthesis takes		
		a) Chloroplast b)	mitochondria c) parenchym	na d) mesophyll
	8.	The brain of leech lies	above the	
		a) Mouth b) Buccal	Cavity c) Pharynx d) (	Crop
	9.	The animals which giv	e birth to young ones are	
		a) Oviparous b) Viv	iparous c) Ovoviviparous	d) All the above
	10.	The salivary secretion	of leech contains	To the second
		a) blood b) crop	c) hirudin d) proteolytic e	nzyme
				is affective to the
			Part-II	
F	\nsv	er any 15 of the follow	ing:	$15 \times 2 = 30$
1	11.	Define moment of a co	ouple.	
1	12.	How does an astronau	t float in a space shuttle?	
1	13.	Fill in the blanks.		
		a) To produce a displac	cement is required	
		b)is used to cha	ange the speed of car.	
1	4.	A swing is pushed at a	point whose distance from his	nges is 60 cm, with a
				The second secon

14. A swi force of 30N. calculate the moment of the force about the hinges.

15. Correct the statement if it is false:

a) Apparent weight of a person is always equal to his actual weight

b) Weight of a body is greater at the equator and less at the polar region.

[P.T.O.



- Assertion (A): The Relative Molecular Mass of Chlorine is 35.5 a.m.u.
  Reason (R): The natural abundance of Chlorine isotopes are not equal.
  - i) A and R are correct, R explains the A. ii) A is correct, R is wrong.
  - iii) A is wrong, R is correct. iv) A and R are correct, R doesn't explains A.
- 17. Define: Atomicity
- 18. Give any two examples for hetero diatomic molecules.
- 19. Match the Following
  - a. Avagadro number C<sub>12</sub> H<sub>22</sub> O<sub>11</sub>
  - b. Molar Volume C<sub>6</sub> H<sub>12</sub> O<sub>6</sub>
  - c. Glucose  $6.023 \times 10^{23}$
  - d. Sucrose 22.4 Litre
- 20. Calculate % of Sulphur "S" in H2SO4
- 21. Draw and label the structure of oxysomes.
- 22. Name the three basic tissues system in flowering plants.
- 23. Write the reaction for photosynthesis.
- 24. Differentiate dicot and monocot leaf.
- 25. Write the functions of epidermal tissue system.
- 26. Match the Following:

Organs Membranous covering

- a. Brain capsule
- b. Kidney pleura
- c. Heart meninges
- d. Lungs pericardium
- 27. a) Give the common name of the Hinrudinaria granulose.
  - b) How does leech respire?
- 28. Leeches do not have an elaborate secretion of digestive juices and enzymes why?
- 29. Identify the Diagram and label parts given
  - a) cerebellum
  - b) Olfactory lobe
  - c) Medulla oblongata
- 30. Why is the tooth of rabbit called heterodont?



Answer any one from each section of the following:

Section - 1

- 31. a) Derive the Relation between g and G.
  - b) State the universal law of gravitation.
- 32. Derive the relationship between Relative molecular mass and Vapour density.

## Section - 2

- 33. Explain the T.S. of a dicot root with suitable diagram.
- 34. How does locomotion take place in leech?

https://www.qb365.in/materials/



2×5=10