FIRST MID TERM EXAMINATION - 2022

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SCIENCE

Time: 1.30 Hrs

Marks: 50

I	Choose the correct answer.		10 X 1 = 10	
1.	1 metric ton is equal to			
	a) 100 quintals	b) 10 quintals		
	c) 1/10 quintals	d) 1/100 quintals		
2.	Which of the following is not a d	evice to measure mass?.		
	a) spring balance	b) beam balance		
	c) physical balance	d) digital balance		
3.	The centrifugal force is			
	a) real force b) the force of reaction of centripetal force			
	c) virtual force d) directed towards the centre of circular path			
4.	When me mix a drop of ink in water we get a			
	a) heterogenous mixture b) compound c) homogenous mixture			
	d) suspension	The same of the sa		
5.	Change in number of neutrons in			
			ther element	
6.	Identify the animal having four cl	nambered heart		
	a) lizard b) snake	c) crocodile d) cala	ites	
7.	Air sacs and pneumatic bones are	e seen In		
	a) fish b) frog	c) bird d) bat		
8.	Polkilothermic organisms are	wannamin o		
	a) fish, frog, lizard, man	b) fish, frog, lizard, cow		
	c) fish, frog, lizard, snake	d) fish, frog, lizard, crow		
9.	The fibres consists of	unuir į		
	a) parenchyma	b) screlerenchyma		
	c) collenchyma	d) none of above		
10.	Smooth muscles occur is			
	a) uterus b) artery c) vel	n d) all the above		
II	Answer in one or two sentence	es. (Any seven).	7 X 2 = 14	
W	(Question No. 20 is compulso	(v)		
11.	Define least count of any device.			
12.	i) Speed is a quantl	ty whereas		
	ii) Velocity is a qua	intity.		
			Page - 1	

- 13. March the following.
 - 1) Elelare cyloleticy Auto
 - 2) chloroplast sclarenchyma
 - 3) simple tissue philoem
 - 4) companion cells collenchyma
- 14. Find the proton, neutron and electron number.
- 15. Name the apparetus that you used to separate two:
 - i) miscible liquids ii) immiscible liquids.
- 16. Defre administra
- 17. Say true / false.
 - i) Larva of amphibian is tadpole.
 - ii) Canal system seen is in colenterata.
- 18. What is nematocysts?
- 19. Draw neuron cell diagram and mark any two parts.
- 20. I a man has a mass 50kg on the earth then what is his weight?
- III Answer in brief. (Any three)

 $3 \times 4 = 12$

- 21. Write four rules that are followed in writing the symbols of units in SI system.
- 22. i) What is Brownian movement.
 - ii) Write about Tyndall effect.
- 23. Differentiate between flatworm and round worms.
- 24. In which stage of mitosis the chromosomes align in an equatorial plate?

IV Answer in detail. (Any two)

 $2 \times 7 = 14$

- 25. Explain a method to find the thickness of a hollow tea cup. (7)
- 26. a) Draw the structure of oxygen and sulphur atoms, write its electronic configuration. (5)
 - b) Match the following. (2)
 - 1) Dalton Plum pudding model
 - Chadwick Discovery of nucleus
 - 3) Rutherford First atomic theory
 - 4) 3.3. Thomson Discovery of neutrons
- 27. Write about phylum arthropoda.
- 28. Distinguish between xylem and phloem.

9-STD SCIENCE Page - 2