FIRST MID TERM MODEL QUESTION PAPER -2019

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STD: X	MARKS: 50	
SUB: SCIENCE	TIME: 1.30hrs	
SECTION-I		
i. Choose the correct answer	(8×1=8)	
 If the Earth shrinks to 50% of its real reweight of a body on the Earth will (decrease by 50%, increase by 50%, decrease by 50%). 		
A convex lens forms a real, diminished position of the image is at (focus, infi		
3. The volume occupied by 4.4g of CO2 at (22.4 litre, 2.24 litre, 0.24 litre, 0.1 litre)		
4 is a relative periodic propert (Atomic radii, ionic radii, electron affi		
Which is formed during anaerobic res (Carbohydrate, Ethyl alcohol, Acetyl of		
6. The body of leech has(23 segments, 33 segments, 38 segm	ents, 30 segments)	
7. The wall of human heart is made of (Endocardium, Epicardium, Myocardi	um, All of the above)	
8. Vomiting centre is located in (medulla oblongata, stomach, cerebr	um, hypothalamus)	
ii. Answer in a word or sentence	(4×1=4)	
9. What is the least count of a Travelling	microscope?	
10 What is the average atomic mass of L	Judragan	

- 10. What is the average atomic mass of Hydrogen?
- 11. What is the common step in aerobic and anaerobic pathway?
- 12. Write the dental formula of rabbit.

SECTION - II

iii. Answer Any Nine of the following: (Question number 15 is compulsory) (9×2=18)

- 13. How does an astronaut float in a space shuttle?
- 14. State whether the following statements are true or false. 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.
- 15. An object is placed at a distance of 20cm from a convex lens of focal length 10cm. find the image distance and nature of the image.
- 16. Give any two examples for heterodiatomic molecules.
- 17. What is rust? Give the equation for formation of rust.
- 18. Match the following:

	Column - I	Column - II
а	Galvanisation	Heating in the absence of air
b	Calcination	Coating with Zn
С	Redox reaction	Silver – tin amalgam
d	Dental filling	Alumino thermic process

- 19. What is respiratory quotient?
- 20. Draw and label the structure of Oxysomes.
- 21. Why are the rings of cartilages found in trachea of rabbit?
- 22. Who discovered Rh factor? Why was it named so?
- 23. Trace the pathway followed by water molecules from the time it enters a plant root to the time it escapes into the atmosphere from a leaf.
- 24. Differentiate between medullated and non-medullated nerve fibre.
- 25. Assertion: Corpus callosum is present in space between the duramater and piamater.

Reason: It serves to maintain the constant intracranial pressure.

- a. Assertion is correct and reason is wrong
- b. Reason is correct and the assertion is wrong
- c. Both assertion and reason are correct
- d. Both assertion and reason are wrong

SECTION-III

iv. ANSWER ANY FOUR OF THE FOLLOWING IN DETAIL:

 $(4 \times 5 = 20)$

- 26. a. The ratio of masses of two planets is 2:3 and the ratio of their radii is 4:7. Find the ratio of their accelerations due to gravity.
 - b. Give the applications of universal law of gravitation.

(OR)

Explain the construction and working of a "Compound Microscope".

27. a. Calculate the % of each element in Calcium carbonate.

(Atomic mass: C - 12, O - 16, Ca - 40)

b. List out the applications of Avogadro's law.

(OR)

- (i) List out the physical properties of metals.
- 28. How does the light dependent reaction differ from the light independent reaction? What are the end products and reactants in each? Where does each reaction occur within the chloroplast?

(OR)

- a. How does the locomotion take place in leech?
- b. Draw the structure of Rabbit brain and label any two parts.
- 29. a. Enumerate the functions of blood.
 - b. Give any two importance of transpiration.

(OR)

30. Classify the neurons based on its structure.

**** ALL THE BEST ****

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