## GOVT ADARSH VIDYALAYA HUNASHYAL(PB) B. BAGEWADI SUMMATIVE ASSESSMENT- 2

	SUM	MATIVE ASSES	SMENT- 2	
Class :-9 <sup>th</sup>	Sub : -Science	Model Paper:- 2	Marks:-80	Time:-3:15 hr
		PART-A (Physics)	2	
I. Chose the	correct answer			1x3=3
1 SI unit of n	ower is			
a) Watt	b) Joule	c) Meter	d) Newton	
2. Which prou	perty of sound is helpf	ul for working of stethosco	ope	
a) Echo	b) Wave	c) Frequency d)	Reverberation	
3. The formul	a of universal gravitat	ional is		
a) F=GMm/d	$l^2$ b) W=mg/d^2	c) W=mg	d) $g=GM/d^2$	
<u>II. Answer th</u>	ne following questions	in one or 2 sentences		1x4=4
4. Who is ca	lled as father of nucles	ar physics?		
5. What is th	ned us futiler of fuelet ne SI unit of accelerati	on.?		
6. Which equ	uinment is used to me	onv osure the distance covered	in any vehicle.?	
7. What is th	ne SI unit of mass?		in any concrete	
III. Answer t	the following questions	<b>j</b>		2x3=6
8. Right thre	ee equations of motion	. And explain each term.		
9. Rahul is s	tarted from rest and c	overs 6 m in 30 seconds ai	nd applies a break & redu	ice speed 24m/s in
5 seconds	find the acceleration i	n both cases.		-
10. Below in	formation gives the d	etail about distance cover	ed by Suresh and Ramesl	h in same interva
decide w	ho is in uniform motio	on and non uniform motion	n.	
	Time	Distance Travelled by	Distance Travelled	
		Suresh	by Ramesh	
	9:30	10	12	
	9.45	20	19	
	10.00	30	23	
	10.15	40	35	
IV. Answer t	he following questions	briefly		<u>3x2=6</u>
11. The Ravi	and Rain both has 40	0 N weight, climbs 8 m wit	th the help of rope, if Ravi	i takes 20 seconds
and Raiu	takes 50 seconds. find	who has more power and	how much.	
12. Write an	plications of ultrasonic	sound. OR		
Write thr	ee laws of Newton wit	h the help of examples		
V. Answer th	ne following questions	briefly		$4 \ge 1 = 4$
13. What is	Density & Relative de	ensity & Name 2 devices w	hich work on Archimedes	principle
VI. Answer t	he following questions	briefly		$5 \ge 1 = 5$
14. a) What	do you mean by unive	ersal law of gravitation? W	rite importance of it.	
b) Write	difference between gr	avitational acceleration an	d gravitational force.	
-		PART-R (C	hemistry)	
VII. Four alt	ernative answers are g	given to the following ques	tions or incomplete staten	nents. Choose the
correct answ	er among them and w	rite the full answer with a	n acronym.	$3 \times 1 = 3$
15. The state	of matter where the a	ttraction force between th	e narticles is very low.	
a) solid	b) liquid	c) gas	d) a and b	
16. Which of	the following is an example	ample of Chemical change	?	
A) Solidificat	tion of water b) iron c	prosion c) Dissolution of	salt in water d) wa	x combustion
17. A solution	n that exhibits the Tvr	dall effect		
a) salt solutio	on b) milk	c) copper sulphate soluti	ion d) starch solution	
VIII. Answei	r the following questio	ns.	.,	$2 \ge 1 = 2$
18. What is a	n atomic number?			
100 mar 15 a				

19. If an atom contains one electron and one proton, then what will be the charge of the atom?

IX. Answer the following questions.

**20.** Draw a picture showing the inter-transitions of the three states of matter.

21. What are the two main laws of chemical composition?

X. Answer the following questions.

22. List the differences between the solid, liquid, and gas states physical properties.

23. Write a picture of partial distillation and identify the parts.

24. Sangeeta discuss with Sujatha & describes Water as a compound but salt & copper sulphate solution as a mixers . Write your own justifications for this. OR

Write which method will you apply to separate the following.

A) Extraction of sodium chloride from an aqueous solution of sodium chloride

B) Ammonium chloride from a mixture containing sodium chloride and ammonium chloride

C) Small pieces of metal in the engine oil of the car

**D**) Pigments in the extract from the bunches. **E**) butter from curd f) crocodile oil from water 25. Complete the following table.

Atomic	Atomic	No. of	No. of	No. of	Name of
Number	Mass	Neutron	proton	Electron	atomic type
9	?	10	?	?	?
16	32	?	?	?	Sulphur
?	24	?	12	?	?
?	2	?	1	?	?
?	1	0	1	0	?

Or

Make a list of three main elements of Rutherford's atomic nucleus model. XI Answer the following questions.

 $1 \ge 4 = 4$ 

26. Calculate the Atomic Mass of the following.

A) 0.5 moles of N<sub>2</sub> gas {mass of molecules} B) 0.5 mol of N atoms {mass of atomic moles}

C) 3.011 X 10<sup>23</sup> numbers of N atoms {mass by number} D) 6.022 X 10<sup>23</sup> number N<sub>2</sub> molecules

## PART-C (BIOLOGY)

XII. Four alternative answers are given to the following questions or incomplete statements. Choose the correct answer among them and write the full answer with an acronym. 2x1 = 227. Robert Whitaker's Five Living Kingdoms is sorted based on which of the following characteristics? b) Nutrition method c) body structure design d) all of the above a) cell structure 28. Which of the following does not belong to a cryptogamy group? a) Thalophyta b) Snail Plant c) Cucurbita d) Lagoon Plant XIII. Answer the following questions.  $2 \ge 1 = 2$ 29. What part of the body does the virus that causes jondis reside? 30. What is the virus that causes brain fever? **XIV.** Answer the following questions.  $3 \ge 2 = 6$ **31.** List the factors that influence evaporation. Or We should wear cotton clothes in the summer time. Write down the scientific reasons for this. 32. Write an example of what are acute and chronic diseases. 33. Write a picture of the Neuron and identify the following parts. A) Axon b) Dendride XV. Answer the following questions. <u>3 x 3 = 9</u> 34. Draw a picture of a fish and identify two parts. 35. Write a picture of the plant cell & identify the following. a) Nucleolus b) chloroplast c) cell wall 36. Explain classification of five animal kingdoms with examples. Or Compare plant cell and animal cells and in what ways Are they different from each other? Explain. XVI Answer the following questions.  $2 \ge 4 = 8$ **37.** Draw a picture showing Nitrogen cycle in nature.

38. Write differences Between striped muscles, unstripe muscles and cardiac muscles based on their structure and their position in our body. <u>Or</u> Briefly describe plant tissue types.

 $2 \ge 2 = 4$ 

 $4 \ge 3 = 12$