

# GOVT ADARSH VIDYALAYA HUNASHYAL(PB) B. BAGEWADI

## SUMMATIVE ASSESSMENT- 2

**Class :-9<sup>th</sup>      Sub : -Science      Model Paper:- 3      Marks:-80      Time:-3:15 hr**

**Note-** \*Read the questions carefully and write a correct Answers

\*Mention the question number correctly

### PART-A (Physics)

**Chose the correct answer** **1x3=3**

1. SI unit of pressure is  
a) Joule                      b) Newton                      c) Pascal                      d) Metre
2. Value of of gravitational acceleration is  
a) 9.8 m/s<sup>2</sup>                      b) 9.9 m/s<sup>2</sup>                      c) 8.9 m/s<sup>2</sup>                      d) 6.9 m/s<sup>2</sup>
3. Sound produced by continuous reflection is called  
a) Reverberation      b) echo                      c) ultrasonic sound      d) diffusing sound

**Answer the following questions in one or 2 sentences** **1x2=2**

4. Define acceleration.
5. Define free fall.

**Answer the following questions** **2x3=6**

6. Write Newton's laws of motion and give example for each law.
7. Right two differences between Kinetic energy and potential energy.
8. A race car has uniform acceleration of 4m/s<sup>2</sup>. Then what it the distance covered by the car in 10 sec if it starts from rest.

**Answer the following questions briefly** **3x3=9**

9. One pair of buffalos apply force of 140 N on plough. the distance which to be ploughed is 15m then find the work done. OR  
4 equipment's has 500 Watt power then find out the total energy consumed by the equipment's in 10 hours.
10. a) Write all three equations of motion. Explain each term.  
b) Define velocity.
11. Draw diagram of EAR and label every part in it.

**Answer the following questions briefly** **4x2=8**

12. What do you mean by Sonar? and Write applications of Sonar. OR  
Write applications of ultrasonic sound and what is a range of ultrasonic sounds.
13. a) Write differences between mass and weight.  
b) Define Archimedes principle and universal law of gravitation.

### Part-B (Chemistry)

**VI. There are four alternative answers to questions or statements. Select correct answer. 3x1 = 3**

14. Procedure for separate immiscible liquid mixture  
a) Filtration      b) Evaporation                      c) Centrifugal Method                      d) separate funnel method.
15. The process where solid is directly converted to Gas  
a) Melting                      b) evaporation                      c) Sublimation                      d) solidification
16. Example for Nobel Gas in the followings  
a) Hydrogen      b) Oxygen                      c) Argan                      d) Nitrogen

**VII. Answer the following questions.**

**3x1 = 3**

17. What is Chromatography?  
18. Explain the law of Constant Ratio.  
19. What is the Homogenous Solution?

**VIII. Answer the following questions.**

**3x2 = 6**

20. What factors affect the Evaporation? **OR**  
What is boiling point? What is the boiling point of water?  
21. Draw labelled diagram of Bohr's atomic model.  
22. Explain what is 1) suspension 2) Colloidal **OR**  
Explain what is 1) Distillation 2) Crystallisation

**IX. Answer the following positions.**

**3x3 = 9**

23. Draw neat labelled diagram of Sublimation of ammonium chloride.  
24. Calculate the Atomic mass of units 1) ZnO 2) Na<sub>2</sub>O **OR**  
What is Chemical Equation? Write chemical equations of 1) Potassium Sulphate 2) Calcium Carbonate  
25. Give reasons i) Mud water is cool during summer. ii) As the passage of time, the naphthalene tablets disappear.

**X. Answer the following Questions.**

**1x4 = 4**

26. Write the symbolic structure of these atomic elements written with atomic numbers  
1) Carbon 2) Sodium

**Part C (BIOLOGY)**

**XI. There are four alternative answers to trivial questions or statements. Choose the answer that is most comfortable with them, and write the answer in the quotient with**

**2x1 = 2**

27. The Power house of cell is  
a) Lyceum b) Ribosome c) Mitochondria d) Golgi Apparatus  
28. Tissue that circulates food in plant is  
a) Phloem b) Xylem c) Epidermis Tissue d) Aerenchyma

**XII. Answer the following questions.**

**3x1 = 3**

29. What is Intercropping Farming?  
30. What is the green house effect?  
31. Name two disease which is going to spread through bacteria.

**XIII. Answer the following questions.**

**2x2 = 4**

32. Write the differences between broilers and layer hens.  
33. Draw neat labelled diagram of Neuron.

**XIV. Answer the following questions.**

**3x3 = 9**

34. Explain about Oxygen Cycle with diagram.  
35. a) Write differences between Naked seed(Gymnosperms) Plants and Angiosperms plants.  
b) Give examples For Tereidophyte plants **Or**  
a) Write differences between mammals & birds group, the earthworms belongs to which group.  
36. Write differences between chronic Diseases & Epidemiological Diseases. Give examples for it

**Or**

Which are the safety measures you take in your school to prevent spreading of Infectious Diseases.

**XV. Answer the following questions.**

**1x4 = 4**

37. Draw Neat diagram of Plant cell and label following parts  
A) Choloplast a) Golgi apparatus.

**XVI. Answer the following questions.**

**1x5 = 5**

38. a) How is striped muscles differ from Un stripped muscles? b) What is the function of areolar tissue?  
c) Is the fat accumulating tissue in our body?

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