

# Sarvodya school of science, Imlota

Sub: English

Class 11th (coaching & Non Coaching)

1. Read an English newspaper daily. Pick 2 articles of relevance of social issues. Paste them in your C.W. notebook and write a letter to the editor based on the respective articles.
2. Write an Article for the school magazine in about 150-200 words on the given topics.  
i) Evils of Gender – Bias (Roll No.: 1 to 12) ii) Examination paves way for success (Roll No.: 13 to 24)  
iii) Honour Killings: A stigma on modern society (Roll No.: 25 to 36) iv) Menace of corruption (Roll No: 37 to 42)
3. Write a speech in about 150 words - i) Freedom of press gone too far (Roll No.: 1 to 12), ii) Humour is the best way to resolve conflict (Roll No.: 13 to 24), iii) Effective listening is more important than talking (Roll No.: 25 to 36), iv) Pressure is good for self-development (Roll No.: 37 to 42)
4. write & learn 50 Homophones word.

Holidays  
Homework

Class - 11<sup>th</sup>  
Biology

- 1) Complete your notebook
- 2) Learn chapter 1 to 3
- 3) Write NCERT Q. A. of Ch 1 to 3

# Holidays Homework

Class :- 11<sup>th</sup> § 1-52

Session :- 2019-2020

PHYSICS :- Practical Notebook - Write the following experiments :-

- Exp: 1 To measure the diameter of a small spherical/cylindrical body using vernier calliper.
- Exp: 2 To measure diameter of a given wire using screw gauge.
- Exp: 3 To determine radius of curvature of a given spherical surface by a spherometer.
- Exp: 4 To find the weight of a given body using parallelogram law of vector.
- Exp: 5 Using a simple pendulum, plot  $L-T$  and  $L-T^2$  graphs. Hence find the effective length of second's pendulum using appropriate graph.
- Exp: 6 To study the relationship between force of limiting friction and normal reaction and to find the co-efficient of friction between a block and horizontal surface.
- Exp: 7 To find the force constant of a helical spring by plotting a graph between load and extension.
- Exp: 8 To study the relation between frequency and length of given wire under constant tension using sonometer.
- Exp: 9 To study the relation between the length of a given wire and tension for constant frequency using sonometer.
- Exp: 10 To find the speed of sound in air at room temp. using a resonance tube by two resonance position.

## Activity

- Activity: 1 To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time.
- Activity: 2 To observe and explain the effect of heating on a bi-metallic strip

# Summer Vacations Homework

Class - 11<sup>th</sup> N.C. N.M. (Super - I & II)

## Mathematics

- 1) Solve the periodic test in fair note book
- 2) Solve assignment in fair notebook
- 3) Revise ch-1 and 3

## SARVODYA SCHOOL OF SCIENCE, IMLOTA

Non-Coaching  
Class-11<sup>th</sup> Subject - Chemistry

### Holiday Homework

- Q.1. What is hydrogen bonding? Explain its types. 3
- Q.2. Draw MO energy level diagram for nitrogen molecules and find its bond order and magnetic behavior. 5
- Q.3. What is meant by hybridization? Explain the shape of the following molecules:-  
 $\text{NH}_3$ ,  $\text{PCl}_5$ ,  $\text{CH}_4$ ,  $\text{BeF}_2$ ,  $\text{SF}_6$
- Q.4. Give the IUPAC name of the following:- 5
- (a)  $\text{CH}_3 - \underset{\text{OH}}{\text{CH}} - \text{CH}_3$  (b)  $\text{CH}_3 - \text{O} - \text{CH}_2 \text{CH}_3$  (c)  $\text{CH}_3 \text{CH}_2 \text{CH} = \text{CH} - \text{CH}_3$   
(d)  $\text{CH}_3 - \text{CO} - \text{CH}_2 \text{CH}_3$  (e)  $\text{CH}_3 - \text{CHO}$
- Q.5. Write down the quantum numbers n, l and m for the following:- 5
- (a) 4f (b) 2p (c) 7s (d) 3d (e) 4p
- Q.6. Yellow light emitted from a sodium lamp has a wavelength ( $\lambda$ ) of 580 nm. Calculate the frequency ( $\nu$ ) and the wave number ( $\bar{\nu}$ ) of the yellow light. 3
- Q.7. Give one example of each of the following:- 3
- (a) Isotope of  $^{35}_{17}\text{Cl}$  (b) Isobar of  $^{40}_{18}\text{Ar}$  (c) Isotone of  $^{14}_6\text{C}$
- Q.8. State Heisenberg's uncertainty principle. Give its mathematical expression.
- Q.9. Explain photoelectric effect. 3
- Q.10. Determine the significant figure in the following:- 5
- (i) 0.0200 (ii) 2.05 (iii) 5004 (iv)  $1.05 \times 10^4$  (v) 0.05
- Q.11. Calculate the number of protons, neutrons and electrons in  $^{80}_{35}\text{Br}$  and  $^{238}_{92}\text{U}$ . 3
- Q.12. Explain Rutherford's model and its limitations also. 4
- Q.13. Balance the following equation in acidic medium. 3
- $(\text{aq}) \text{H}_2\text{S} + \text{Cl}_2(\text{g}) \rightarrow \text{S}(\text{s}) + \text{Cl}^-(\text{aq})$

Or

Calculate the oxidation number of the following:-

- (i) S in  $\text{H}_2\text{S}$  (ii) C in  $\text{CO}_2$   
(iii) P in  $\text{Na}_3\text{PO}_4$  (iv) Mn in  $\text{MnO}_4^-$