

28.06.19

T.T Physics

Time: 45 Mins

STD: XI (C,D)

Marks: 30

I. Choose the correct answer:

5x1=5

1. High precision instruments are used to eliminate _____ error.

- a) personal b) random c) chance d) Leastcount

2. Assertion: The length of a cylinder is 23.8cm. In this

measurement there are three significant figures.

Reason: The same length when expressed in mm as 23800mm

has four significant figures. Which one of the following is correct?

- a) Assertion is true and Reason is true
 b) Assertion is true and Reason is false
 c) Assertion is true and Reason is correct
 d) Assertion is true and Reason is true but it is not correct explanation for assertion

3. If $f=x^2$ then the relative error in f is

- a) $\frac{2\Delta x}{x}$ b) $\frac{(\Delta x)^2}{x}$ c) $\frac{\Delta x}{x}$ d) Δx^2

4. Round off the given number upto 3 digits 18.653

- a) 18.5 b) 18.0 c) 18.7 d) 18.6

5. Error in the power of quantity can be expressed by

- a) $(\Delta z)^2 = A$ b) $\frac{\Delta z}{z} = n \left[\frac{\Delta A}{A} \right]$ c) $\frac{z}{\Delta z} = \left[\frac{A}{\Delta A} \right]^n$ d) $\frac{\Delta z}{z} = \left[\frac{\Delta A}{A} \right]$

II. Answer any 5 of the following:

5x3=15

6. List the rules for rounding off.

7. A physical quantity and is given by $x \frac{a^4 b^b}{c\sqrt{d}}$ if the percentage

errors of measurement in a,b,c and d are 4%, 5%, 3% and 1% respectively. Calculate the % error in the calculation of x.

8. A Radar signal is beamed towards a planet and its echo is received in 10 minutes later. If the distance between the planet of earth is $8.3 \times 10^{10} \text{m}$. Calculate the speed of signal.

9. How will you determine the distance of moon from earth.

10. What is Gross error? How it can be minimised?

11. Write the error on which the final results depends.

III. Answer any 2 in detail:

2x5=10

12. Write a note on triangulation method to measure larger distance.

13. Write the rules for determining significant figures.

14. In a series of successive measurements in an experiment the readings of the period of oscillation of a simple pendulum were found to be 2.63s, 2.56s, 2.42s, 2.71s and 2.805 calculate

- i) the mean value of the period of oscillation
 ii) Absolute error in each measurement.

28.06.19

T.T Chemistry

Time: 45 Mins

STD: XI (A,B)

Marks: 30

I. Choose the correct answer:

5x1=5

- Which one of the following is used as a standard for atomic mass?
 - ${}_6\text{C}^{12}$
 - ${}_7\text{C}^{12}$
 - ${}_6\text{C}^{13}$
 - ${}_6\text{C}^{14}$
- The number of water molecules in a drop of water weighing 0.018g is
 - 6.022×10^{26}
 - 6.022×10^{23}
 - 6.022×10^{20}
 - 9.9×10^{22}
- Which of the following is/are true with respect to carbon-12?
 - relative atomic mass is 12μ
 - oxidation number of carbon is +4 in all its compounds
 - 1 mole of carbon-12 contain 6.022×10^{22} carbon atoms
 - All of these
- Consider the following statement:
 - Hydrogen sulphide is a compound.
 - Matter possess mass.
 - Sulphur (S_8) is a mixture.
 Which of the following statement(s) given below is/are correct
 - 1 & 3
 - only 2
 - 1 & 2
 - 1,2 and 3
- Match the list-I with list-II and select the correct answer using the code given below the lists.

List-I

List-II

A B C D

- | | | |
|--------------------|-------------------------|------------|
| A. Aerated drinks | 1. Compound | a) 1 2 3 4 |
| B. Copper plate | 2. Homogenous mixture | b) 2 4 3 1 |
| C. Distilled water | 3. Heterogenous mixture | c) 4 3 2 1 |
| D. Oil and water | 4. Element | d) 2 3 4 1 |

II. Answer any 5 of the following:

5x2=10

- Define molar mass.
- Define Avogadro number.
- Write the empirical formula for the following:
 - H_2O_2
 - $\text{C}_6\text{H}_{12}\text{O}_6$
 - CO_2
 - N_2O_4
- Define mole.
- Write down the expression to calculate Gram equivalent mass.
- Define relative atomic mass.

III. Answer any 3 of the following:

3x5=15

- Draw a flow chart to illustrate classification of matter with examples. (3 Marks)
- Calculate molar mass of the following: (2 Marks)
 - Acetone (CH_3COCH_3)
 - Sulphuric acid (H_2SO_4)
- What is the empirical formula of the following? (3 Marks)
 - Fructose ($\text{C}_6\text{H}_{12}\text{O}_6$) found in honey
 - Caffeine ($\text{C}_8\text{H}_{10}\text{N}_4\text{O}_2$) a substance found in tea and coffee.
 - If 'x' is an impure substance. Is it an element or mixture
- Calculate the empirical and molecular formula of a compound containing 76.6% carbon, 6.38% hydrogen and rest oxygen its vapour density is 47.
- Calculate the average atomic mass of naturally occurring magnesium using the following data.

Isotope	Isotopic atomic mass	Abundance %
1. Mg^{24}	23.99	78.99
2. Mg^{26}	24.99	10.00
3. Mg^{25}	25.98	11.01

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28.06.19 T.T தமிழ் Time: 45 Mins
 STD: XI(E-I) Marks: 25

I. அடிபிறழாமல் எழுதுக:

2x5=10

1. ஏடு தொடக்கிஎனத் தொடங்கும் வில்வரத்திம் எழுதிய யுகத்தின் பாடலை எழுதுக.
2. ஆக்கியோன் பெயரே..... எனத் தொடங்கும் நன்னூல் பாயிரம் பாடலை எழுதுக.

II. ஆசிரியர் குறிப்பு வரைக.

3x5=15

3. வில்வரத்தினம் - ஆசிரியர் குறிப்பு வரைக.
4. இந்திரன் - ஆசிரியர் குறிப்பு வரைக.
5. பவணந்தி முனிவர் ஆசிரியர் குறிப்பு வரைக.

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28.06.19 T.T French Time: 45 Mins
 STD: XI (E-I) Marks: 30

I. TRADUISEZ EN FRANÇAIS:

15x1=15

1. - Good morning Madam
2. - Please
3. - August
4. - Thursday
5. - How are you? (Formal)
6. - Sunday
7. - Good night Sir.
8. - February
9. - Very well, thanks.
10. - You are welcome
11. - June
12. - Wednesday
13. Good afternoon Miss
14. Excuse me
15. - Friday

II. CONJUGUEZ AU PRÉSENT:

3x5=15

11. entendre 12. mincir 13. jouer

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28.06.19 T.T Hindi Time: 45 Mins
 STD: XI (E-I) Marks: 25

1. निम्नलिखित शब्दों के शब्दार्थ लिखिए - 10x1=10

(क) पशुकावटा -

(ख) काव्य -

(ग) खानि -

(घ) लान -

(ङ) वैपश्वाह -

(च) उलीचियो -

(छ) दाम -

(ज) तिनसे -

(झ) चाह -

(ञ) समंत -