

EVERWIN MATRIC. HR. SEC. SCHOOL

05.07.19

T.T Chemistry

Time: 45 Mins

STD: XI (C,D)

Marks: 30

I. Choose the correct answer:

5x1=5

1. The oxidation number of hydrogen in metal hydrides is

- a) +1      b) -1      c) +2      d) 0

2. Among Zinc, copper and silver, the element with high electron releasing tendency is

- a) Copper    b) Zinc      c) Silver    d) both (a) and (b)

3. The change in oxidation number of Zinc in the following reaction  $Zn + 2HCl \rightarrow ZnCl_2 + H_2$

- a) +2 to 0    b) 0 to +1    c) 0 to -1    d) 0 to +2

4. \_\_\_\_\_ is the quantitative relationship between reactants and products.

- a) Stoichiometry    b) mole      c) empirical formula  
d) molar mass

5. Which of the following reactions does not show oxidising behaviour?

- a)  $Cu + H_2SO_4 \rightarrow CuSO_4 + SO_2 + 2H_2O$   
b)  $C + H_2SO_4 \rightarrow CO_2 + 2SO_2 + 2H_2O$   
c)  $BaCl_2 + H_2SO_4 \rightarrow BaSO_4 + 2HCl$   
d) none of the above

II. Answer any 5 of the following:

5x2=10

6. Define Stoichiometry.

7. Calculate the oxidation number for the underlined elements

- i)  $H_2\underline{S}O_4$       ii)  $\underline{C}H_2F_2$

8. What is oxidation number?

9. What is an excess reagent?

10. Name some oxidation reactions taking place in our daily life.

11. Give the classical concept of oxidation and reduction.

III. Answer any 3 of the following:

3x5=15

12. Write a note on i) combination reaction

ii) disproportionation reaction

13. The balanced equation for a reaction  $2x+3y \rightarrow 4z + m$ . When 8 moles of x react with 15 moles of y then,

i) Which is the limiting reagent?

ii) Calculate the amount of products formed.

iii) Calculate the amount of excess reagent at the end of the reaction.

14. i) Calculate the amount of water produced by the combustion of 32g of methane (s).

ii) Define oxidation and reduction in terms of electronic concept.

15. a) Give the oxidation number of oxygen in the following

- i)  $H_2O$     ii)  $H_2O_2$     iii)  $KO_2$       (3)

b) What happens when a Zinc metal stripe is placed in aqueous copper sulphate solution. Identify the type of redox reaction in this process.      (2)

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05.07.19 T.T Economics Time: 45 Mins  
STD: XI (F,G) Marks: 40  
I. Choose the correct answer: 12x1=12

1. The basic problem studied in Economics is
  - a) Unlimited wants
  - b) Strategy to meet all our wants
  - c) Scarcity
2. Which of the following is micro economics statement?
  - a) The general price level increased by 4 percent last year
  - b) The price of wheat determines its demand
  - c) The real domestic output increased by 2.5 percent last year
3. Find the odd one out.
  - a) "Ceteris paribus"
  - b) "Principles of Economics"
  - c) "Nature and Significance of Economic Science"
4. "Economics is a science". The basis of this statement is \_\_\_\_\_.
  - a) Experiment
  - b) Use of deductive method and inductive method for the formation of laws
  - c) Relation between cause and effect
  - d) All the above
5. The equilibrium price is the price at which \_\_\_\_\_.
  - a) Excess demand is zero
  - b) Quantity demanded equals quantity supplied
  - c) Buyers spend their money
6. Identify the correct characteristics of utility.
  - a) It depends upon consumer's mental attitude
  - b) It is same as pleasure
  - c) It is equivalent to 'usefulness'

7. Which theory is generally included in micro economics?
  - a) Income theory
  - b) Price theory
  - c) Trade theory
8. Total revenue is equal to total output sold multiplied by \_\_\_\_\_.
  - a) Price
  - b) Total cost
  - c) Marginal cost
9. \_\_\_\_\_ have exchange value and their ownership rights can be established and exchanged.
  - a) Services
  - b) Markets
  - c) Goods
10. Micro economics is concerned with \_\_\_\_\_.
  - a) The study of Individual economic units behaviour
  - b) The study of society
  - c) Economic growth
11. The process of reasoning from particular to general is \_\_\_\_\_.
  - a) deductive method
  - b) Inductive method
  - c) Positive economics
12. A market is \_\_\_\_\_.
  - a) Only a place to buy things
  - b) A system where persons buy and sell goods directly or indirectly
  - c) only a place to sell goods

II. Answer any 6 of the following: 6x3=18

13. Define positive economics.
  14. Define micro economics.
  15. What are goods?
  16. Give the meaning of deductive method.
  17. Name any two types of utility.
  18. What is meant by Economics?
  19. Distinguish goods from services.
- III. Answer any one of the following: 1x10=10
20. Explain basic problems of the economy with the help of production possibility curve.
  21. Elaborate the nature and scope of Economics.

I. Choose the correct answer:

12x1=12

1. Human activities can be categorized into \_\_\_\_\_ types.
  - a) one
  - b) two
  - c) three
  - d) four
2. Activities undertaken with the object of earning money are called \_\_\_\_\_ activities.
  - a) Economic
  - b) Non-economic
  - c) Financial
  - d) Money
3. Occupations may be classified into \_\_\_\_\_ categories.
  - a) One
  - b) Two
  - c) Three
  - d) Four
4. \_\_\_\_\_ refers to the occupation in which people work for others and get remuneration in the form of wages or salaries.
  - a) Employment
  - b) Profession
  - c) Business
  - d) Industry
5. Primary objective of a business is \_\_\_\_\_.
  - a) Making profit
  - b) not making profit
  - c) Special skill
  - d) none of the above
6. Activities undertaken out of love and affection or with social service motive are termed as \_\_\_\_\_ activities.
  - a) Economic
  - b) Monetary
  - c) Non-economic
  - d) Financial
7. Occupation of a Supervisor is \_\_\_\_\_.
  - a) Employment
  - b) Profession
  - c) Business
  - d) All of the above
8. Occupation of a Doctor is \_\_\_\_\_.
  - a) Profession
  - b) Employment
  - c) Business
  - d) None of the above
9. \_\_\_\_\_ defined business as human activity directed towards acquiring wealth.
  - a) James Stephenson
  - b) Wheeler
  - c) J.L.Hansen
  - d) H.Haney

10. \_\_\_\_\_ refers to fulfillment of expectations of employees.
    - a) Human objectives
    - b) Social objectives
    - c) Organisational objectives
    - d) Economic objectives
  11. Public enterprises are classified into \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.
  12. Raymonds is an example of \_\_\_\_\_ industry.
    - a) Micro
    - b) Small
    - c) Medium
    - d) Large
- II. Answer the following: 4x3=12
13. What do you mean by human activities? Explain.
  14. Explain economic objectives.
  15. State comparison of profession and business (any 3 points).
  16. State the classification of business activities.
- III. Answer the following: 2x8=18
17. Distinguish between economic and non-economic activity.
  18. Explain the characteristics of business.

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T.T Commerce

Time: 45 Mins

STD: XI (H,I)

Marks: 40

I. Choose the correct answer:

12x1=12

1. \_\_\_\_\_ is part and parcel of human life.  
a) Commerce b) Banking c) Insurance d) Warehousing
2. \_\_\_\_\_ functions as a medium of exchange.  
a) Transport b) Banking c) Money d) Warehousing
3. Which one helps in announcing the arrival of new products and their uses to the people?  
a) Advertising b) Banking c) Trade d) Transport
4. \_\_\_\_\_ advocated maintenance of perfect balance between state's management and people's welfare through trading activities. a) Kautilya b) Pandiya c) Chera d) Chola
5. Boats like \_\_\_\_\_ were used for crossing oceans for foreign trade. a) Thoni b) Ambu c) Thimil d) Vangam
6. \_\_\_\_\_ means exchange of goods for goods.  
a) Insurance b) Money c) Barter system d) Transport
7. Who encouraged import of foreign goods from Persia and subsidised the goods?  
a) Balban b) Sultan c) Kautilya d) Alauddin Khilji
8. Profit margin allowed for traders ranged from \_\_\_\_\_% for imported goods. a) 5 b) 10 c) 15 d) 20
9. \_\_\_\_\_ was the chief port of the kingdom of Cholas.  
a) Marakanam b) Arikamedu c) Kayal  
d) Kaveripumpattinam
10. \_\_\_\_\_ in sangam period was both internal and external.  
a) Sales b) Education c) Industry d) Trade

11. Which is called as iruperu neymath?

a) Chennai b) Madurai c) Tuticorin d) Salem

12. Commerce activities are heading for a cashless system through \_\_\_\_\_.

a) e-commerce b) banking c) insurance d) warehousing

II. Answer the following:

4x3=12

13. What is meant by Barter system?

14. What is meant by Nallangadi and Allangadi?

15. What was focused in Arthasasthra about trade?

16. What is the role of Sangam in trade development of ancient TamilNadu?

III. Answer the following:

2x8=16

17. What are the hindrances of commerce?

18. State the constraints in Barter system.

05.07.19

T.T Physics

Time: 45 Mins

STD: XI (A,B)

Marks: 30

I. Choose the correct answer:

5x1=5

1. S.I unit of magnetic induction \_\_\_\_\_.  
a)  $\text{Am}^{-2}$       b) AS      c)  $\text{NA}^{-1}\text{m}^{-1}$       d)  $\text{Nm}^{-1}$
2.  $1^{11} =$  \_\_\_\_\_ rad  
a)  $2.91 \times 10^{-4}$     b)  $4.85 \times 10^{-6}$     c)  $1.745 \times 10^{-2}$     d)  $57.27 \times 10^{-5}$
3. The dimension of  $(\mu_0 \epsilon_0)^{\frac{1}{2}}$  is \_\_\_\_\_.  
a) length      b) time      c) velocity      d) force
4. Which of the following pairs of physical quantities have same dimension?  
a) velocity & frequency      b) linear velocity & frequency  
c) Angular velocity & frequency      d) force & velocity
5. The dimensional formula of Boltzmann constant \_\_\_\_\_.  
a)  $\text{ML}^2\text{T}^{-2}\text{K}^{-1}$     b)  $\text{ML}^2\text{T}^{-1}$       c)  $\text{MT}^{-2}$       d)  $\text{ML}^2\text{T}^{-2}\text{K}^{-1}$

II. Answer any 3 of the following:

3x2=6

6. What are the different types of physical quantities?
7. Define dimensionless constant with examples.
8. Define Radian.
9. Define unit.

III. Answer any 3 of the following:

3x3=9

10. What are the limitations of dimensional analysis?
11. Check the correctness of the equation  $\frac{1}{2}mv^2 = mgh$  using dimensional analysis method.
12. How will you measure the diameter of the moon using parallax method?
13. If the value of universal gravitational constant in S.I is  $6.6 \times 10^{-11} \text{ Nm}^2\text{Kg}^{-2}$ , then find its value in CGS system.

IV. Answer any 2 in brief:

2x5=10

14. Assuming that the frequency  $\gamma$  of a vibrating string may depend upon i) applied force [F] ii) length (l) iii) mass per unit length (m) prove that  $\gamma \propto \frac{1}{l} \sqrt{\frac{F}{m}}$  using dimensional analysis.
15. Explain the principle of homogeneity of dimensions. What are its uses? Give example.
16. Write a note on triangulation method and radar method to measure larger distances.