

Class-12th
Subject - Chemistry
Assignment Questions:-

Question 1.

- (i) What is meant by the term 'coordination number'?
- (ii) What is the coordination number of atoms:
 - (a) in a cubic close-packed structure?
 - (b) in a body-centred cubic structure?

Question 2.

Calculate the efficiency of packing in case of a metal crystal for

- (i) simple cubic
- (ii) body-centred cubic
- (iii) face-centred cubic

Question 3.

Explain the following terms with suitable examples:

- (i) Schottky defect
- (ii) Frenkel defect

Question 4:

Explain the following with suitable examples:

- (i) Ferromagnetism
- (ii) Paramagnetism
- (iii) Ferrimagnetism
- (iv) Antiferromagnetism
- (v) 12-16 and 13-15 group compounds.

Question 5:

Classify the following as amorphous or crystalline solids:

Polyurethane, naphthalene, benzoic acid, teflon, potassium nitrate, cellophane, polyvinyl chloride, fibre glass, copper.

Question 6.

Difference between Crystalline and Amorphous solids ?

Question 7:

What type of stoichiometric defect is shown by:

- (i) ZnS (ii) AgBr

Question 8:

Which of the following lattices has the highest packing efficiency (i) simple cubic (ii) body-centred cubic and (iii) hexagonal close-packed lattice?

Question 9.

What is a unit cell and type of unit cell ?

Question 10.

In a face centred cubic arrangement of A and B atom in which A atoms are at the corners of the unit cell and B atoms are at the face centres one of the A atom is missing from one corner in unit cell.the simplest formula of the compound is.

- (a) A₇B₃.
- (b) AB₃
- (c) A₇B₂₄
- (d) A_{8/7}B₃

Question 11.

Distinguish between the meaning of the terms adsorption and absorption. Give one example of each.

Question 12.

What is the difference between physisorption and chemisorption?

Question 13.

What are the factors which influence the adsorption of a gas on a solid?

Question 14

What is an adsorption isotherm? Describe Freundlich adsorption isotherm.

Question 15.

How are the colloidal solutions classified on the basis of physical states of the dispersed phase and dispersion medium?

Question 16.

What are lyophilic and lyophobic sols? Give one example of each type.

Question 17.

What is the difference between multimolecular and macromolecular colloids? Give one example of each.

Question 18.

What are enzymes? Write in brief the mechanism of enzyme catalysis.

Question 19.

Explain the following terms :

- Electrophoresis
- Coagulation
- Dialysis
- Tyndall effect

Question 20.

What are micelles? Give an example of a micelle system.

-:Project :-

Make a working Model .(any one)

- 1 water cycle.
- 2.Electrolysis
- 3 carbon atom
4. Voltaic cell
5. Fruit cell
- 6 Dry cell

Assignment

Subject- Biology

1. Can we refer the off spring formed by asexual reproduction, as a clone? if yes, why?
2. In bisexual flowers, why is the transfer of pollen grain easier than in unisexual flowers? Name the specialized event in unisexual flowers which helps in transfer of pollen.
3. Why can't man be oviparous? justify the statement.
 - i) Name the process of development of embryo from the zygote.
 - ii) What are the two changes which the zygote undergoes during this process?
4. Why estrous cycle is not seen in humans?
5. Non albuminous seeds do not have endosperm, then from where do they take the food during germination?
6. Why do you think that the zygote is dormant for some time in a fertilized ovule?
7. Your friend would like to cross pollination the bisexual flower. How can you guide him to be successful in his experiment?

Mathematics
Chapter 1
Relation and function
Assignment

1. Let L be the set of lines in a plane and R is defined as $R = \{(m, n) : m \perp n, m, n \in L\}$. Show that R is symmetric. Is it reflexive? Is it transitive?
2. Given the relation R in the set of all integers by $R = \{(x, y) : x - y \text{ is an integer}, x, y \in Z\}$. Find whether the relation R is an equivalence relation.
3. Let $A = \{1, 2, 3\}$. Then the relation in A defined by $R = \{(1, 2), (1, 1), (2, 2), (3, 3), (2, 3)\}$ is reflexive, it is neither symmetric nor transitive.
4. Give an example for a relation R on $A = \{a, b, e\}$ which is
 - (i). Neither reflexive nor symmetric but transitive.
 - (ii). Neither symmetric nor transitive but reflexive.
 - (iii). Neither reflexive nor transitive but symmetric.

5. A binary operation * over the set Q of rational number is given by $a*b=ab/4$.

(a) Evaluate

(1) $5*4$. (2) $4*5$

(b) find the additive identity for the operation*

विषय हिंदी

1 प्रश्न गद्य की प्रमुख एवं गुण विधाओं के नाम लिखिए।

2 प्रश्न निबंध की परिभाषा एवं उसके प्रकार लिखिए।

प्रश्न 3 निबंध की शैलियों का विवरण कीजिए।

प्रश्न 4 औपचारिक एवं अनौपचारिक पत्र में अंतर बताइए।

प्रश्न 5 कोरोना वायरस के संदर्भ में लेख लिखें।

प्रश्न 6 परिभाषिक एवं तकनीकी शब्दों में अंतर बताइए।

प्रोजेक्ट कार्य

1 वाक्य के प्रकार को लिखें

अथवा

2 समास की परिभाषा एवं समाज के विभिन्न प्रकारों को दर्शाएं

Subject:-Special English

Q1. Prepare a complete Chart of 'Tense'

Q2. Explain the meaning of the poem 'Invocation'

Let us have concord with our own people,

And Concord with people who are strangers to us;

Asvins, create between us and the strangers

a unity of hearts.

Q3. Why does the speaker invoke the god's Asvins?

Q4. How did Loisel arrange the money for the necklace?

Q5. What kind of husband was Loisel?