Class XII /Assignment 2   5 APRIL 2020

ENGLISH LANGUAGE: Assignment- 3
Write and learn WORDS FOLLOWED BY PREPOSITIONS 1(A)Pg 15- Total English 12 NOTE - To be done in fair register

Assignment- 4

Write and learn

Self- Study - Exercise

Pages 16, 17(Total English)

NOTE- To be done in fair register

HINDI:

'सारा आकाश' उपन्यास पढ़ें तथा you tube पर उसकी वी डयो(eagle home entertainment) देखें ।

ECONOMICS:

Chapter - Demand & law of demand from   Frank ISC Economics
Learn the following
1) Statement of law of demand given in bold letters pg 15
2) Assumptions of law of demand pg 15   and also underline the word ceteris paribus order(in book) given in assumptions on Same page 15
3)Demand schedule -meaning pg16,It's types - individual -it's meaning pg16 ,market demand schedule's meaning pg17
4) Demand curve- meaning pg17
    Types of demand curve - individual & market (their meaning) pg 17
5) Practice drawing diagrammatic illustrations of individual demand schedule pg 16 ,market demand schedule pg 17 , individual demand curve pg17 ,market demand curve page 18 at least twice
    Write the meaning & definitions of different concepts mentioned in point 1,2 & 3 above at least thrice

ACCOUNTS:

Learn Formulas & Sub Formulas of Ratio Analysis given in the beginning of the book-volume 1 where syllabus in accounts is given by the council from page(xvi) to page (xxi) (for more clarification they are written on purple pages)
After learning these formulas & sub formulas write atleast 3 times to make sure that you have learnt them properly
Do this work sincerely as this all will help you a lot in solving the questions later on.

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CHEMISTRY:

Solve the following **questions** in your copy:

1. Distinguish between (i) Anisotropy and isotropy (ii) Long range order and short range order (iii) True solid and pseudo soild.

2. A fcc element (atomic mass =60) has a cell edge of 400pm.What is it's density in gm/cm^3?

3.An element occurs in bcc structure.It's cell edge is 250pm.Calculate the atomic mass of the element if it's density is 8.0 gm/cm^3.

4. Pg.51: Qs. 8 and 17.

5. In the network solid **Graphite**, state:

(i) The hybridisation of the carbon atom.

(ii) The coordination no.of each carbon atom.

(iii) Type of forces present between it's layers.

(iv) The reason for it's softness and low density.

BIOLOGY:

BIOLOGY WEEKLY PLAN
PART -II
Continue with the chapter no. 10 of unit-3 [Human health and diseases]

Write the information under the following headings (in your biology notebook)
   a) name of the disease
   b) causative agent
   c) symptoms (any4)
   d) spread
   e) treatment and preventive measures

Compile your work with reference to the following diseases
   i. two diseases caused by protozoans
   ii. two diseases caused by helminths
   iii. a disease caused by fungi

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COMPUTER:

Q1. Prove that X + X' is a Tautology and X. X' is a contradiction.

Q2. Define logic gates. How many types of gates are there?

Q3. Find the dual of (A'+ B). (1 + B') = (A'+ B +0).

Q4. Simplify the following boolean expression using boolean laws:

a. b (b. c + a. b)

Q5. Find the complement of :

a)   F(a,b,c,d) = [a+{(b+c). (b' + d')}]

b)   x (y' . z'+ y. z)

Q6. Define XOR gate. Draw the truth table of 2 input XOR gate.

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MATHS:

WORKSHEET 2

1) If A = $\begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$ B = $\begin{bmatrix} 0 & -i \\ i & 0 \end{bmatrix}$
   Verify that $(A + B)^2 = A^2 + B^2$

2) A = $\begin{bmatrix} 2 & 3 \\ 1 & 2 \end{bmatrix}$ and I = $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$
   Find x & y suh $that$ $A^2 = xA + yI$

3) Differentiate the following with respect to x.
   i) $(5x + 7)^{20}$
   ii) $\sqrt{x + \sqrt{x}}$
   iii) $sinx^2$
   iv) $sin\sqrt{x}$
   v) $cos(sinx^4)$
   vi) $|x^2 + 1|$
   vii) $\dfrac{x^2}{(4-x^2)}$
   viii) $\dfrac{sinx + x^2}{cot2x}$
   ix) $y = t^2 + 4, \ t = x^2 + 2x$

4) If $x\sqrt{1 + y} + y\sqrt{1 + x} = 0$
   Prove that $\dfrac{dy}{dx} = -\dfrac{1}{(1+x)^2}$

5) Find the points on the curve $y = \dfrac{x}{1-x^2}$ for which $\dfrac{dy}{dx} = 1$

6) Given $y = \sqrt{\dfrac{1-x}{1+x}}$ show that $(1 - x^2)\dfrac{dy}{dx} + y = 0$