DELHI PUBLIC SCHOOL GAYA
ASSIGNMENT FOR DIWALI VACATION, SESSION 2018–19
CLASS – XI

Instruction: – Kindly do your assignment work in assignment copies of the subjects.

ENGLISH CORE

1. You are Raj / Roshni of Alps Public School, Jodhpur. Your school has decided to contribute in controlling traffic near your school and requires the names of volunteers from IX to XII. Write a notice to be displayed on the notice board. (50 words)

2. You are Rahul / Rajni of Modern Colony, Pitampura, Delhi. Write a letter of complaint to the Manager. A. K. Electronics asking him to either repair or replace the LED TV that you had purchased from his shop last shop. Invent all the necessary details. (100-120 words)

3. Prepare an advertisement for the 'Diwali Sale' at Big Bazaar, Gaya. (50 words)

4. Narrate the story of "The Tale of the Melon City" in 100 words.

HINDI

1. कार्तिक मास में मनाए जाने वाले पर्व एवं त्योहारों की क्रमबद्ध सूची तैयार करते हुए उसके मनाए जाने के कारणों की जानकारी प्राप्त कर लिखिए।

2. लोकतंत्र के चौथे स्तम्भ के रूप में मीडिया की क्या भूमिका है? लगभग 120 शब्दों में अपने विचार लिखिए।

2. भारतीय सैनिकों की जीवन – शैली एवं देश–रक्षा में उनके योगदान को लगभग 50 शब्दों में लिखिए।

MATHEMATICS

Miscellaneous chapter : 9 , 11

CHEMISTRY

1. States Hess's law of constant heat summation. How is it helpful?

2. Describe the construction and working of bomb calorimeter

3. What are internal energy change and enthalpy change? How are they related?

4. Predict whether ΔS will be positive or negative for the following reactions:

    (a) $N_2(g) + 3H_2(g) \rightarrow 2NH_3(g)$

    (b) $I_2(s) \rightarrow I_2(g)$

PHYSICS

Solve 100 questions (including derivation and definitions) from chapter" work power energy and friction"
Source: 1.Notes book 2.ncert text book 3. H C Verma.

BIOLOGY

1. Define genome & cell cycle. What are the two basic phases of cell cycle?

2. What is the significance of G_0 stages of cell cycle?

3. Diagrammatically represent the stages of mitosis and meiosis (in chart paper).

COMPUTER SCIENCE

1. Write a program to print all the prime numbers upto N.

2. Write a program to accept a number and check whether input number is Armstrong or not.

3. Write a program to generate five random numbers between 5 and 20.

4. Write a Program to find number of vowels, consonants, digits and other characters given in a string.

5. Write a program to calculate the factorial up to n.

INFORMATICS PRACTICES

1. Design a suitable GUI application in java Net Beans to check whether a number is a Krishnamurthy number or not. [A Krishnamurthy number is a number whose sum of the factorial of digits is equal to the number itself. For example 145, sum of factorial of each digits:

    $1! + 4! + 5! = 1 + 24 + 120 = 145$]

2. Design a suitable GUI application in java Net Beans to input the principal, rate of interest and time in order to display the result as follows:

    (a) Simple Interest and amount

    (b) Compound Interest and amount

3. Design a suitable GUI application in java Net Beans to print the series as follows:

    (a) 1,1,2,3,5,8,13,21,………to n-th term

    (b) 1/2 + 2/3+ 3/4+4/5+ ………………..+n/n+1th term

    [NOTE: Prepare menu-driven programs for Q2. and Q.3]

PHYSICAL EDUCATION

1. Write a note on Yoga.

2. Computation of BMI from family or neighbourhood and graphical representation of the data.

3. Explanation and list of current awardees (Dronacharya, Arjuna and Rajeev Gandhi Khel Ratna Award).

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