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DURGA PUJA HOME ASSIGNMENT FOR CLASS IX

SUBJECT: ENGLISH

WITH REFERENCE TO THE CHAPTER "TWIN MELODIES" WRITE ABOUT ANY FIVE FAMOUS MUSICIANS OF OUR COUNTRY AND THEIR CONTRIBUTION IN INDIAN CLASSICAL MUSIC OR TRADITIONAL MUSIC. PASTE THEIR PICTURES ALSO. DO THIS ACTIVITY IN ENGLISH HOMEWORK NOTEBOOK.

दुर्गा पूजा अवकाश गृह कार्य

कक्षा -9

विषय- हिंदी

क) दिए गए संकेत बिंदु के आधार पर 100 से 120 शब्दों में अनुच्छेद लिखें-

पहला सुख -निरोगी काया (संकेत बिंदु- निरोगी शरीर सुखों का आधार ,पौष्टिक भोजन एवं योग का संतुलन अनिवार्य ,स्वस्थ शरीर कर्तव्यों की पूर्ति में सहायक)

ख) क्रियाकलाप अपने देश के महत्वपूर्ण पर्यटन स्थलों की सूची बनाइए और उनकी विशेषताओं का सचित्र वर्णन करें।

H.H.W

संस्कृतम्

1. शब्दरूपाणि लिखन्तु स्मरन् च-(गुणिन् ; विद्वस् ; मनस्)

2. धातुरूपाणि लिखन्तु स्मरन्तु च(पठ् ; लभ्) पञ्च लकारेषु

3. सन्धि विच्छेदम् कुरुत-

(देवार्चनम् हितोपदेशः अभ्युदयः सदैव नाविकः भावुकः जगदीशः
सज्जनः निर्बलः मुनिरयम्)

4. प्रदत्त शब्दानां सहायतया " परोपकारः" इति विषयम् एकं अनुच्छेद
लिखत-

(परेषाम् उपकारः ; कथ्यते ; नद्याः जलम् ऋषयः वृक्षाः परार्थाय
दयालुता सर्वत्र जनाः वारिवाहाः)

5. प्रकृति प्रत्ययोः विभाजनं कुरुत-

क) परित्यज्य ख) प्रणम्य ग) लब्धुम् घ) प्राप्तुम् ङ) क्रेतुम् च) कृत्वा
छ) पीत्वा ज) व्रजन्तौ झ) पश्यन् ञ) क्रीडन्तः

Holiday Home Work Class 9 Mathematics

1. Prove that the line segment joining the midpoints of any two sides of a triangle is parallel to the third side and equal to half of it.
2. Prove that the sum of 4 angles of a quadrilateral is 360° .
3. An equilateral triangle of side 9 cm is inscribed in a circle. Find the radius of the circle.
4. Prove that the angle subtended by an Arc of a circle at the centre is double the angle subtended by it at any point on the remaining part of the circle.
5. Prove that the angle in a semicircle is a right angle.
6. Prove that the quadrilateral formed by angle bisectors of a cyclic quadrilateral is also cyclic.
7. In a circle of radius 10.5 cm find the length of an Arc which subtends at the centre an angle of (i) 75° , (ii) 135° .
8. A bicycle wheel makes 5000 revolution in moving 11 km .Find the circumference and the diameter of the wheel.
9. The diameter of the wheel of a cycle is 70 cm. How far will it go in 250 revolutions.
10. Activity based question: prove that by paper cutting and pasting method the sum of 4 angles of a quadrilateral is 360° .

DAV KAPILDEV PUBLIC SCHOOL,KADRU RANCHI

HOLIDAY HOMEWORK: PHYSICS CLASS IX

- Q1.** Define 1 Joule of work and state the two core conditions required for work to be done.
- Q2.** A person holds a heavy bundle of luggage on their head for 30 minutes and gets tired. Has any work been done in the context of physics? Justify your answer.
- Q3.** Differentiate between Kinetic Energy and Potential Energy based on their definitions and formulas.
- Q4.** Derive the mathematical expression for the Kinetic Energy ($E_k = \frac{1}{2} mv^2$) of an object.
- Q5.** State the Law of Conservation of Energy and explain the energy interconversion that takes place in a simple pendulum.
- Q6.** Give one real-life example each where the work done by a force is positive, negative, and zero.
- Q7.** A force of 15 N acts on a body and displaces it through 4 m in the direction of the force. Calculate the work done.
- Q8.** Find the Kinetic Energy of a ball of mass 500 g flying at a uniform speed of 20 m/s.
- Q9.** A body of mass 5 kg is raised to a height of 12 m above the ground. Calculate its Potential Energy (Take $g = 9.8 \text{ m/s}^2$).
- Q10.** A car weighing 1000 kg accelerates to increase its speed from 36 km/h to 72 km/h. Calculate the work done by the engine.

HOLIDAY HOMEWORK

CLASS:- IX

SUBJECT :- CHEMISTRY

CHAPTER:- Journey inside the atom.

1. An atom with an atomic number of 26 has 56 nucleons. Find out its number of electrons, protons and neutrons.
2. Identify the number of electrons in the outermost shell of the following elements:
(i) Si ($Z=14$, $A=28$) (ii) C ($Z=6$, $A=12$) (iii) F ($Z=9$, $A=19$)
3. Define isotopes. write any three applications of isotopes.
4. Write the electronic configuration and name of the elements having atomic numbers 12, 16 and 18.
5. Name the isotopes of hydrogen and calculate electron ,proton and neutron for each isotopes.
6. Chlorine occurs in nature in two isotopic forms. One isotope has a mass of 35 u, and the other has a mass of 37 u. They occur in the ratio 3:1. Calculate average atomic mass of chlorine
7. Find the following information for the elements shown in Fig. 8.17:
 - (i) Name of the element
 - (ii) Symbol
 - (iii) Total number of electrons
 - (iv) Number of valence electrons
 - (v) Valency of the element
 - (vi) Number of protons
 - (vii) Atomic number

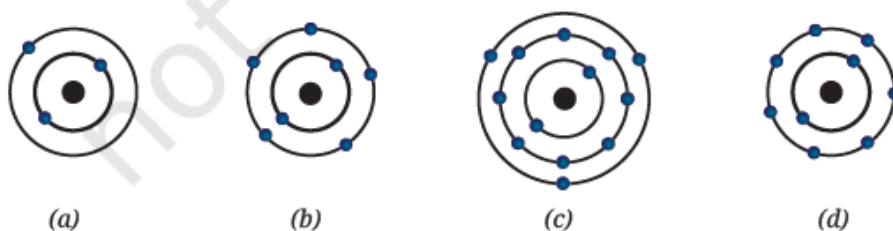


Fig. 8.17

8. Electrons move around the nucleus in orbits. Why do they not fly away from the atom? Explain what keeps them attracted to the nucleus.
9. Explain Thomson's model of atom.
10. What do you think would happen if α -particles were replaced with negatively charged particles in Rutherford's gold foil experiment?

Class 9 Subject: Biology

DP Holiday Homework

Q1. How Layering Cutting and Grafting methods of vegetative propagation can be done?

Q2. Explain the process of budding in Yeast.

Q3. Differentiate between asexual and sexual reproduction write at least four p o i n t s.

Holiday homework

Subject- Social Science

Class- IX

History

Write the Answer of the following questions in your copy

1. Write a short note on all the Vedas?
2. What do you understand by the Samhitas, Brahmana, The Aryankas and the Upanishads?
3. Give a brief description of the Sabha, Samiti and Vidhata?

Geography

1. Learn about Wave, Tide and Ocean current- definition, causes of occurrence its impact on the environment?

CLASS 9 HHW Subject: - COMPUTER

Session -2026-2027

1. On the basis of given table write the formula to find: -

	A	B	C	D	E	F	G	H
1	ROLL	NAME	ENG	HIN	MATH	SC	SST	IT
2	1	Amit	50	72	49	63	54	80
3	2	Aakash	58	45	77	68	62	60
4	3	Aniket	48	53	56	57	68	69
5	4	Anil	65	54	76	76	54	51
6	5	Amay	66	45	56	58	42	43

- Formula to find highest marks in SST.
 - Formula to find lowest marks in IT
 - Formula to find number of students present in SC.
 - Sum of marks obtained by Aniket.
 - Formula to find average marks of Hindi.
2. Write default alignment of below things according to calc:
- Text
 - Number
 - Date
 - Time
3. Write any three uses of Calc.
4. Write extension of following:
- Open office calc
 - Libre office calc
 - MS Excel