

## Home Work for Autumn Break

### Class - XII Physical Education

- \* Read up to 7 chapter thoroughly.
- \* Complete Notebook upto chapter No-7.
- \* Practice AAHPER Test.
- \* Practice Barrow motor Test.
- \* Practice Sample papers.

### Class - XI - Physical Education

- \* Read All the chapter up to syllabus of September month.
- \* Complete Notebook upto Chapter No.7.
- \* Read Test, measurement and evaluation
- \* Practice of different test.

## EVS HOLIDAY HOMEWORK Class-V

Q1. Can mosquito be seen by naked eyes in the collected water?

Q2. What are the responsibilities of a leader in a mountaineering camp?

Q3. Write short note on: (a) Bachchendra Pal (b) Sunita Williams

Q4. Write the phone number of these three emergency numbers:

1. Ambulance \_\_\_\_\_

2. Fire department \_\_\_\_\_

3. Police \_\_\_\_\_

Q5. How are the seeds dispersed by explosion?

Q8. Name the virus carried by dogs, cats, monkeys.

# SCIENCE HOLIDAY HOMEWORK Class-VI

Q1. Most physical changes are reversible. Give reason with two examples.

Q2. Explosion of a cracker is a chemical change. Explain.

Q3. Does the shoulder bone also move when you move your arm?

Q4. How do prop roots help the plant?

Q5. List two adaptations in birds that help them to fly.

Q5. What are the uses of cotton?

Q6. Write the function of food.

Q7. What is the main difference between vitamins and minerals?

Q8. Write the name of any two water soluble vitamins.

Q9. What is the function of a stamina plant?

Q10. What is the difference between fibre and yarn?

# SCIENCE HOLIDAY HOMEWORK Class-VII

Q1. How symbiotic relationship helps the farmer?

Q2. Define convection and radiation.

Q3. Explain why holes are made in hanging banners and hoardings.

Q4. Give reason for the following:

(a). Ingestion of food is difficult without teeth.

(b). Bacteria are present in the caecum of ruminants.

Q4. Explain how soil is formed.

Q5. Write the chemical equation between:

a. Carbon dioxide and lime water

b. Rusting of iron.

Q6. Write the importance of Rhizobium bacteria for the farmers.

Q7. Name the acids present in: (a) vinegar (b) tamarind (c) sting of bees.

## SCIENCE HOLIDAY HOMEWORK      Class-VIII

Q1. Make a sketch of the human nerve cell. What function do nerve perform?

Q2. Write any two advantage of manure.

Q3. Where do Rhizobium bacteria commonly live?

Q4. What is global warming? What may be the harmful effect of it?

Q5. What are the advantages of using CNG and LPG as fuels?

Q6. Explain the formation of petroleum.

Q7. Why is it important to conserve forests?

# HOME ASSIGNMENT (Maths)

## CLASS XII

1. Invertible function, equivalence relation, injective and surjective function
2. Inverse trigonometric function
3. Elementary operation to find inverse of a matrix
4. Solution of determinants, solution of system of linear equation by matrix method
5. Continuous function, differentiation
6. Rate of change of quantity, increasing and decreasing function, maxima and minima
7. Integration by substitution, by partial fraction, definite integrals
8. Find the area between two curves
9. Formation of differential equation, solutions of differential equation with separable variable, homogeneous differential equation, linear differential equation

## CLASS XI

1. Sets
2. Types of relations and function
3. Principle of mathematical induction
4. Modulus and conjugate of complex numbers
5. Graphical method of solving linear inequalities
6. Questions of permutation and combination
7. Expansion of binomials by binomial theorem, general and middle term
8. Trigonometric function, question based on formulas.

## CLASS X

1. Euclid division lemma, fundamental theorem of multiplication
2. Find zeros of polynomials
3. Solution of linear equation by substitution method, by elimination method, by cross multiplication method
4. Roots of quadratic equations
5. General term of A.P. and sum of  $n$  terms of an A.P.
6. Basic proportional theorem, converse of BPT, similarity of triangles
7. Question based on distance formula, section formula
8. All trigonometric ratios and their values for different angles, use of formulas to prove equation

## Home work Art Education

Primary

Class-1-5

- A. Land scape sketch only pencil shade
- B. Make a Greetings card for deepawali.

Class 6-10

- A. Draw a land scape with 2 point Perspective
- B. One 3d drawing own choice.

Navin kumar

TGT Art education

Kv ongc jorhat

## Home Assignment (MATHS)

### CLASS - IX

1. Representing Real numbers on the Number Line.
2. To prove Remainder theorem.
3. Locate  $\sqrt{2}$  and  $\sqrt{3}$  on the number line.
4. Factorise  $8x^3 + 27y^3 + 36x^2y + 54xy^2$ .
5. Define angle sum property of a Quadrilateral.
6. Prove Mid - Point Theorem.
7. Read about some more Criteria for Congruence of Triangles.
8. Write about another condition for a Quadrilateral to be a Parallelogram.
9. Do prepare for your Half yearly Examination.



Home Assignment of MATHS  
CLASS - (VI, VII, VIII)

CLASS - VI

- 1.) What is the closure property of Numbers, Define with example.
  - 2.) Differentiate between the 'Line' and 'Line Segment'.
  - 3.) Draw a chart on different types of 3-D shapes.
  - 4.) Draw and Define different parts of a Circle.
  - 5.) Do prepare for your Half yearly Examinations.
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CLASS - VII

- 1.) Find the mean of your sleeping hours during the week.
  - 2.) Write about different type of angles and Triangles.
  - 3.) Read about criteria for Congruence of Triangles.
  - 4.) An ant can carry 50 times its weight. If a person can do the same, how much would you be able to carry?
  - 5.) Do prepare for your Half yearly Examinations.
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CLASS - VIII

- 1.) Learn and write all Algebraic Identities.
- 2.) Give three example of multiplying a monomial by a binomial.
- 3.) Draw different types of Quadrilateral and write the properties.
- 4.) What are Rational numbers, Give some examples.
- 5.) Do prepare for your half yearly examinations.

## Autumn break holiday homework

### English Class 8<sup>th</sup>

1. Read all the chapters up to syllabus up to September thoroughly.
2. There is a debate competition in your school on topic 'Plastic: a boon or curse.'  
And having two groups senior- 9-12 and junior- 6-8. Write a notice giving necessary information.
3. Write a message informing your mother that you went to play cricket with your friends in her absence and he will be late.
4. Write a letter to your mother telling her how you are living in boarding school and how much you miss your home.
5. Write a story in 150-200 words with the help of the following outline. Give it a suitable title also.  
Bunya was a foolish boy, who was an attention seeker. He was a woodcutter and would go deep into the jungle to cut trees. One day he wanted to do an act of mischief. He shouted at the top of his voice, "There's a tiger, tiger, there's a tiger ... .."
6. Use the information given below and complete the biography in about 80 to 100 words. P. T. Usha  
1964: Born on may 20th at Keothali in Kerala  
  
1973: Discovered by a dedicated physical education teacher  
  
1975: Badly injured while practising for sub-junior district level athletics. Participated in 100 meters, 200 meters, long jump, high jump-first in all four events  
  
1982: Two silver medals in New Delhi Asian Games  
  
1984: Fourth place in 400 in at Los Angeles Olympics  
  
1985: Best female Athlete in Jakarta Asian Meet  
  
1986: Four gold and one silver medal at Seoul Asian games
7. Grammar practice: tenses, active passive voice and reported speech.

**Do in the writing notebook**

## Autumn Break Holiday Homework

### Class-IX

1. Read all the chapters up to syllabus up to September thoroughly

#### **WRITING**

2. Write a diary entry no more than 100-120 words about you celebrating Durga puja with your grandparents.
3. Computers have become a rage with children. The image shows young children glued to their computers. Computers play a major role in today's age but one must understand its function as a major distraction. Write an article highlighting the role of computers and also pointing out the hazards their excessive use can cause. You are Nikhil/Neha.
4. Grammar practice: tenses, active passive, subject-verb concord and reported speech.

**Do in the writing notebook**

## Autumn break holiday homework

### English Class 6<sup>th</sup>

1. Read all the chapters up to syllabus up to September thoroughly.
2. You are Mehul/ Malvika you lost your pencil box in the playground. Write a notice giving specification.  
You are Gaurav/ Garima you found a pencil box in the playground. Write a notice giving specification.
3. Write a leave application for you are not feeling well.
4. Write a story on below picture, suitable title.



5. Write a paragraph on how you celebrated durga puja.
6. Grammar Practice- noun, adjectives,verb.

**Do in the writing notebook**

## Autumn break holiday homework

### English Class7th

1. Read all the chapters up to syllabus up to September thoroughly.
2. A dance competition will be organising in your school on the occasion of durga puja. Write a notice regarding to it.
3. You want to order some books related to your subject. Write a letter to a book store placing order, asking them to send it as soon as possible.
4. Write a letter to your friend asking him/her to celebrate durga puja with you.
5. Write story with the help of given outline providing suitable title:  
**Outline:** Lived a noble and generous man ..... all his slaves adored him ..... the Devil was vexed ..... he got one of the slaves Aleb on his side .....was to incite others against the master ..... master was showing rams and eves to his guests .....special praise for a ram ..... priceless ..... Aleb played mischief .....seized the left leg of the ram and snapped before the master ..... The Devil was happy at Alex's conspiracy ..... The master looked heavenwards .....”O Aleb, Aleb! Your master bade you anger me: but my master is stronger than yours. I am not angry with you.” ..... The Devil grinding his teeth fell down from the tree.
6. **Write a short paragraph on**

Mother Teresa

- Birth — 27 August 1910 of Albanian parents in Skopje
- Real Name — Agnes Gonxha Bojaxhiu
- 1928 — the Joined convent in Ireland; 18 years old
- 1929 — Sent to Darjeeling, India
- 1931 — Began teaching at Kolkata Girls' School
- 1948 — Left teaching to work among the poor in slums of Kolkata
- 1950-1996 — Worked for the downtrodden and sick destitute
- 1979 — Awarded Nobel Peace Prize
- Death — 5 September 1997

7. Grammar practice : Tense, Reported speech.

**Do in the writing notebook**

## कक्षा-६ के लिए गृहकार्य:-

संस्कृत:- बालक एवं बालिका का शब्द रूप याद करना है।

- (२) प्रथम पाठ से अष्टम पाठ तक के प्रश्न याद करने हैं।
- (३) प्रथम पाठ से अष्टम पाठ तक के अभ्यास प्रश्न याद करने हैं।
- (४) ५-१० श्लोक संस्कृत के याद करने हैं।

## कक्षा-सप्तम (७) के लिए गृहकार्य:-

- (i) प्रथम पाठ से त्रिवर्ण ध्वजः पाठ तक के अभ्यास प्रश्न को पढ़ें और याद करेंगे।
- (ii) बालक एवं बालिका का शब्द रूप लिखें याद करेंगे।

## कक्षा-अष्टम (८) के लिए:- (गृहकार्य)

- (i) प्रथम पाठ से संसार सागरस्थ नायकः तक के प्रश्न को याद करेंगे।
- (ii) बालक, बालिका का शब्द रूप और फल का शब्द रूप लिखना एवं याद करना।
- (iii) "पठ्" धातु का लट् लकार, लृट् लकार एवं लङ् लकार याद करें।

### कक्षा-9 के लिए गृहकार्य:-

(i) व्याकरणांश - संधि, शब्दरूप, धातुरूप याद करके आना है।

(ii) प्रत्यभिज्ञानम् " पाठ तक अभ्यास प्रश्न तैयार रहना चाहिए एवं याद भी करना है।

### कक्षा-10 के लिए गृहकार्य:-

(i) दो मॉडल प्रश्न पत्रों के व्याकरणांश को हल करके लाना है।

(ii) समास (सभी), प्रत्यय, उपपद विभक्ति, शुद्ध, अशुद्ध 10-10 उदाहरण लिखकर लाना है।

(iii) सौहार्द प्रकृति शौभा: अध्याय तक अभ्यास प्रश्न पढ़कर याद करना है।

## **PRACTICAL ASSIGNMENT – I (2019-20) → CLASS – 11 (CS) - Last Date: 30/09/2019**

- Q1. Write a program using Python to obtain five numbers and print their average.
- Q2. Write a program using Python to obtain length and breadth of a rectangle and print area of rectangle.
- Q3. Write a program using Python to Calculate BMI (Body Mass Index of two person. (formula for BMI = weight in Kg / Height in Meters squared.)
- Q4. Write a program using Python to read today's date (only day part) from user. Then display how many days are left in the current month (assuming 30 days in a month).
- Q5. Write a program using Python to enter a number and display multiple table of that number in the format like  $2 \times 1 = 2$ ,  $2 \times 2 = 4$  .....
- Q6. Write a program using Python that accepts radius of a circle and display area of circle.
- Q7. Write a program using Python that asks for your height in centimeters and then converts your height to feet and inches. (Where 1 foot = 12 inches, and 1 inch=2.54 cm)
- Q8. Write a program using Python to read a number n and print  $n^2$ ,  $n^3$ , and  $n^4$
- Q9. Write a program using Python to find area of a triangle.
- Q10. Write a program using Python to compute simple interest and compound interest (Where p, r, t will be entered by user)
- Q11. Write a program using Python to read three numbers in three variables and swap first two variables with the sums of first and second, second and third numbers respectively.
- Q12. Write a program using Python to read a four digit number and display sum the digit of that number.
- Q13. Write a program using Python to obtain x, y, z from user and calculate expression:  $4x^4+3y^3+9z+6(\text{Pie})$ .
- Q14. Write a program using Python to enter two number and display largest between them.
- Q15. Write a program using Python to enter a year and check year is a Leap year or not.

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## PRACTICAL ASSIGNMENT – 2

CLASS – XII (CS)

SUBMISSION DATE: 17-10-2019

Q1. Write a program to calculate the factorial of an integer using recursion
Q2. Write a program to print fibonacci series using recursion
Q3. Write a program for binary search using recursion
Q4. Write a recursive python program to test if a string is palindrome or not.
Q5. Write a program to count the number of vowels present in a text file
Q6. Write a program to write those lines which have the character 'p' from one text file to another text file.
Q7. Write a program to count number of words in a file.
Q8. Write a python function $\sin(x, n)$ to calculate the value of $\sin(x)$ using its taylor series expansion up to n terms $\sin(x) = x - \frac{x^3}{3!} + \frac{x^5}{5!} - \frac{x^7}{7!} + \dots,$
Q9. Write a program to generate random numbers between 1 to 6 and check whether a user won a lottery or not
Q10. Write a program to create a library in python and import it in a program
Q11. Write a program to plot a bar chart in python to display the result of a school for five consecutive years.
Q12. Write a program in python to plot a graph for the function $y = x^2$
Q13. Write a program in python to plot a pie chart on consumption of water in daily life.
Q14. Write a program for linear search.
Q15. Write a program for bubble sort
Q16. Write a menu based program to perform the operation on stack in python
Q17. Write a menu based program to perform the operation on queue in python.

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### **PRACTICAL ASSIGNMENT – II (2019-20) → CLASS – 11 (CS) - Last Date: 16/10/2019**

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- Q3. Write a program using Python to enter a number and check number is prime or not.
- Q4. Write a program using Python to enter five numbers and find the largest among them.
- Q5. Write a program using Python to enter a number and display sum of digit of that number.
- Q6. Write a program using Python to enter a number and check it is Armstrong number or not.
- Q7. Write a program using Python to enter a number and check it is palindrome or not. E.g. 1221 is palindrome no.
- Q8. Write a program using Python to enter any 10 numbers and display factorial of these numbers.
- Q9. Write a program using Python to display prime numbers from 2 to 50.
- Q10. Write a program using Python to display multiple table of 1 to 20 numbers.

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**KV ONGC JORHAT**  
**HOLIDAY HOMEWORK**  
**SUBJECT-PHYSICS**  
**CLASS - XII**

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1. Derive electrostatics potential energy of capacitor
2. Derive capacitance of partially filled capacitor.
3. Derive amount of work done to rotate the dipole in uniform electric field.
4. A sensitive instrument is to be shielded from the strong electrostatic fields in its environment. Suggest a possible
5. Explain construction, adjustment of compound microscope/telescope and derive the formula of angular magnification of it.
6. Derive the lens maker formula.
7. What do you mean by displacement current , write modified form of Ampere's law.
8. What do you mean by resonance in series LCR circuit , Draw phase and vector diagram in case of resonance.
9. Define the term mutual induction and derive the formula of mutual inductance of two coils.
10. Write ampere's law and by using it derive the formula of magnetic field intensity at the axis of long solenoid.
11. Write the principal of AC generator and deduce the formula of induced emf and current.
12. Derive the formula of magnetic field intensity at the axis of current carrying circular coil.
13. Write principal of potentiometer and derive the formula of internal resistance by using it.
14. Write Gauss theorem and derive the formula of electric field intensity due to infinite linear charge.

**KV ONGC JORHAT**  
**HOLIDAY HOMEWORK**  
**SUBJECT-PHYSICS**  
**CLASS - X**

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1. Define reflection of light. And write laws of reflection of light.
2. Define refraction of light and explain refractive index.
3. Draw ray diagram in following case-
  - i) When object is between F-C of concave mirror.
  - ii) When object is between P-F of concave mirror.
  - iii) When object is between pole and infinite (any where)of convex mirror.
  - iv) When object is at C of concave mirror.
4. Write ohm's law and derive the formula of net resistance of series/parallel combination of three resistances.
5. Write joule's heating effect of current and name of electric appliances which are based on it
6. Explain all defects of eye. Draw the diagram of defected and corrected eye in each case.
7. Explain advance sunrise and delay sunset.

**KV ONGC JORHAT**  
**HOLIDAY HOMEWORK**  
**SUBJECT-PHYSICS**  
**CLASS - IX**

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1. What are the differences distance and displacement? Write unit of both of them.
2. What are the differences between speed and velocity?
3. Define uniform and non-uniform motion.
4. Derive all three equation of motion by using graphically method.
5. Explain buoyancy force and write Archimedes' Principle.
6. Write Newton's law of Gravitational and some evidence in favor of it.
7. Write Newton's second law of motion derive the formula of  $F=ma$ .

**KV ONGC JORHAT**  
**HOLIDAY HOMEWORK**  
**SUBJECT-PHYSICS**  
**CLASS - XI**

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1. Explain rolling motion and derive the formula of velocity, acceleration and time period.
2. Explain moment of inertia and find out MI of ring about its tangent and diameter.
3. Discuss variation in 'g' with height/depth.
4. Define escape velocity and derive it's formula.
5. Discuss head –on elastic collision under following cases- (i)  $m_1 \gg m_2$  (ii)  $m_1 \ll m_2$
6. Write work energy theorem and prove it for variable force.
7. Discuss banking of road and derive the formula of maximum safe speed of vehicle on banked road when friction force is considered.
8. Explain projectile motion and derive the formula of maximum height, time of flight, horizontal range and equation of trajectory.

# HOLIDAY HOMEWORK

## CLASS - III

### ENGLISH

- \* Draw the picture of your favourite fruit on A-4 sheet and write few lines on it.
- \* Learn any one story with good moral value.
- \* Write five animals and their sounds.
- \* Learn poem "Train".
- \* Learn and revise ch- 'Good Morning' to 'The story of the road'.
- \* Write few lines about:  
i) My self      ii) My school      iii) My family

## CLASS - IV

- \* Learn and revise ch- 'Wake up' to 'The Milkman's Cow'.
- \* Draw the picture of your pet animal on A-4 sheet and write few lines on it.
- \* Paste picture of 10 animals and their homes.
- \* Learn any one story with good moral value.
- \* Read English Newspaper everyday.
- \* Write few lines about:  
i) Importance of trees      ii) My favourite fruit  
iii) My School

## अवकाशकालीन गृहकार्य

कक्षा - छठी

हिन्दी

- \* दशहरें के त्यौहार का वर्णन अपने शब्दों में कीजिए।
- \* पाठों में से कराए गए महत्वपूर्ण प्रश्नों को याद करें।
- \* प्रधानाचार्य जी को फ़ीस माफ़ी हेतु प्रार्थना पत्र लिखो।
- \* संज्ञा, सर्वनाम, विशेषण, क्रिया की परिभाषा एवं भेद लिखों।
- \* पाठ - 'वह चिड़िया जो' से 'टिकट अलबम' (वसंत)  
'अवधपुरी में राम' से 'दंडक वन में दस वर्ष' (बाल रामकथ)  
अभ्यास कीजिए।
- \* निबंध लिखों व याद करें -
  - क) स्वच्छता
  - ख) हिन्दी राजभाषा
  - ग) विद्यार्थी जीवन और अनुशासन

## ENGLISH HOLIDAY HOMEWORK CLASS X

1. READ ALL THE CHAPTERS UP TO SYLLABUS OF SEPTEMBER MONTH THOROUGHLY.
2. WRITE TWO LETTERS OF COMPLAINT, TWO LETTERS OF PLACING ORDER AND TWO LETTERS TO THE EDITOR.
3. WRITE TWO ARTICLES .THE TOPICS ARE:-
  - a) WRITE AN ARTICLE ON "NEED OF AFFORESTATION" IN THE PRESENT-DAY WORLD.
  - b) WRITE AN ARTICLE ON THE TOPIC "FLOODS CAUSES AND PREVENTION"
4. PRACTISE GRAMMAR (REPORTING, TENSES,EDITING)
5. PREPARE SUMMARIES OF ALL THE POEMS TAUGHT UPTO SEPTEMBER. LEARN TITLES AND POETS NAME

### DO IN WRITING COPY

## ENGLISH HOLIDAY HOMEWORK CLASS XI

1. READ ALL THE CHAPTERS UP TO SYLLABUS OF SEPTEMBER MONTH THOROUGHLY.
2. WRITE TWO LETTERS OF COMPLAINT, TWO LETTERS OF PLACING ORDER AND TWO LETTERS TO THE EDITOR.
3. WRITE TWO ARTICLES .THE TOPICS ARE:-  
"HIGH-TECH DEVICE – BOON OR BANE"  
"COMBATING THE MENACE OF DRUGS"
4. WRITE 2 ADVERTISEMENTS ON DIFFERENT TOPICS.
5. PRACTISE GRAMMAR (REPORTING, TENSES,EDITING,OMISSION)

### DO IN WRITING COPY

## ENGLISH HOLIDAY HOMEWORK CLASS XII

1. READ ALL THE CHAPTERS UP TO SYLLABUS OF SEPTEMBER MONTH THOROUGHLY.
2. PRACTISE POETIC DEVICES, CHARACTER SKETCHES OF DERRY, RATTRAP,
3. WRITE 4 LETTERS ON DIFFERENT TOPICS. (COMPLAINT, PLACING ORDER, ENQUIRY, TO THE EDITOR)
4. WRITE 2 ARTICLES ON DIFFERENT TOPICS. (MOBILE PHONES:- A MODERN UTILITY OR A HEALTH HAZARD, "HIGH-TECH DEVICE – BOON OR BANE")
5. WRITE 2 ADVERTISEMENTS ON DIFFERENT TOPICS.( DRAFT AN ADVERTISEMENT FOR THE POST OF RECEPTIONIST FOR A HOTEL, DRAFT AN ADVERTISEMENT FOR THE SALE OF A SECOND HAND CAR)

### DO IN WRITING COPY

## HOLIDAY HOMEWORK (06-10-19 TO 15-10-19)

## SUB- BIOLOGY

**CLASS:- 12<sup>TH</sup>**

Reproduction, a characteristic feature of all organisms for continuation of species; Asexual reproduction Modes of reproduction-Asexual and sexual reproduction; Modes-Binary fission, sporulation, budding, gemmule, fragmentation; vegetative propagation in plants.

Flower structure; Development of male and female gametophytes; Pollination-types, agencies and examples; Outbreedings devices; Pollen-Pistil interaction; Double fertilization; Post fertilization events- Development of endosperm and embryo, Development of seed and formation of fruit; Special modes- apomixis, parthenocarpy, polyembryony; Significance of seed and fruit formation

Male and female reproductive systems; Microscopic anatomy of testis and ovary; Gametogenesis- spermatogenesis & oogenesis; Menstrual cycle; Fertilisation embryo development upto blastocyst formation, implantation; Pregnancy and placenta formation (Elementary idea); Parturition (Elementary idea); Lactation (Elementary idea).

Need for reproductive health and prevention of sexually transmitted diseases (STD); Birth control – Need and Methods, Contraception and Medical Termination of Pregnancy (MTP); Amniocentesis; Infertility and assisted reproductive technologies - IVF, ZIFT, GIFT (Elementary idea for general awareness).

Mendelian Inheritance; Deviations from Mendelism-Incomplete dominance, Co-dominance, Multiple alleles and Inheritance of blood groups, Pleiotropy; Elementary idea of polygenic inheritance; Chromosome theory of inheritance; Chromosomes and genes; Sex determination - in humans, birds, honey bee; Linkage and crossing over; Sex linked inheritance - Haemophilia, Colour blindness; Mendelian disorder in humans - Thalassemia; chromosomal disorders in humans; Down's syndrome, Turner's and Klinefelter's syndromes.

Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central dogma; Transcription, genetic code, translation; Gene expression and regulation - Lac Operon; Genome and human genome project; DNA fingerprinting.

Origin of life; Biological evolution and evidences for biological evolution (Paleontological, comparative anatomy, embryology and molecular evidence); Darwin's contribution, Modern Synthetic theory of Evolution; Mechanism of evolution - Variation (Mutation and Recombination) and Natural Selection with examples, types of natural selection; Gene flow and genetic drift; Hardy - Weinberg's principle; Adaptive Radiation; Human evolution.

Pathogens; parasites causing human diseases (Malaria, Filariasis, Ascariasis, Typhoid, Pneumonia, common cold, amoebiasis, ring worm); Basic concepts of immunology - vaccines; Cancer, HIV and AIDs; Adolescence, drug and alcohol abuse.

Improvement in food production : Plant breeding, tissue culture, single cell protein, Biofortification, Apiculture and Animal husbandry.

In household food processing, industrial production, sewage treatment, energy generation and as biocontrol agents and biofertilizers. Antibiotics; production and judicious use

**PREPARE THESE TOPICS AND DOUBT WILL BE TAKEN ON 16/10/2019**



**Class:- 11<sup>th</sup>**

What is living? Biodiversity; Need for classification; three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial nomenclature; tools for study of taxonomy-museums, zoological parks, herbaria, botanical gardens.

Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups: Lichens, Viruses and Viroids

Salient features and classification of plants into major groups - Algae, Bryophyta, Pteridophyta, Gymnospermae and Angiospermae (three to five salient and distinguishing features and at least two examples of each category); Angiosperms - classification upto class, characteristic features and examples.

Salient features and classification of animals non chordates up to phyla level and chordates up to class level (three to five salient features and at least two examples of each category).

Morphology and modifications: Tissues

Anatomy and functions of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed

Animal tissues: Morphology, anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of an insect (cockroach).

Cell theory and cell as the basic unit of life: Structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; Cell envelope, cell membrane, cell wall; Cell organelles - structure and function; endomembrane system, endoplasmic reticulum, Golgi bodies, lysosomes, vacuoles; mitochondria, ribosomes, plastids, microbodies; cytoskeleton, cilia, flagella, centrioles (ultrastructure and function); nucleus, nuclear membrane, chromatin, nucleolus.

Chemical constituents of living cells: biomolecules, structure and function of proteins, carbohydrates, lipids, nucleic acids, enzymes, types, properties, enzyme action.

Cell cycle, mitosis, meiosis and their significance.

**PREPARE THESE TOPICS AND DOUBT WILL BE TAKEN ON 16/10/2019**

**Class:- 10<sup>th</sup>**

"living being". Basic concept of nutrition, respiration, transport and excretion in plants and animals.

Tropic movements in plants; Introduction to plant hormones; control and co-ordination in animals : nervous system; voluntary, involuntary and reflex action, chemical co-ordination: animal hormones.

Reproduction in animal and plants (asexual and sexual) reproductive health- need for and methods of family planning. safe sex vs HIV/AIDS. Child bearing and women's health.

Heredity; Mendel's contribution- Laws for inheritance of traits: Sex determination: brief introduction; Basic concepts of evolution.

**Class:- 9<sup>th</sup>**

Cell as a basic unit of life; prokaryotic and eukaryotic cells, multicellular organisms; cell membrane and cell wall, cell organelles; chloroplast, mitochondria, vacuoles, endoplasmic reticulum, Golgi apparatus; nucleus, chromosomes - basic structure, number.

Structure and functions of animal and plant tissues (four types in animals; meristematic and permanent tissues in plants).

Diversity of plants and animals - basic issues in scientific naming, basis of classification. Hierarchy of categories / groups, Major groups of plants (salient features) (Bacteria, Thalophyta, Bryo phyta, Pteridophyta, gymnosperms and Angiosperms). Major groups of animals (salient features) (Non-chordates upto phyla and chordates upto classes).

**PREPARE THESE TOPICS AND DOUBT WILL BE TAKEN ON 16/10/2019**

अवकाशकालीन गृहकार्य कक्षा:-3

प्रश्न 1 शेर के बारे में पाँच लाइने लिखों और याद करो।

प्रश्न 2 चाँद के बारे में पाँच लाइने लिखों और याद करो।

प्रश्न 3 अपने बारे में पाँच लाइने लिखों।

प्रश्न 4 मुहावरों का अर्थ लिखों और याद करो।

1 भीगी बिल्ली होना।

2 आग बबूला होना।

प्रश्न 5 संज्ञा किसे कहते हैं? उदाहरण सहित लिखों।

प्रश्न 6 पर्यायवाची शब्द लिखों।

1 आकाश 2 पानी 3 माँ 4 सूर्य

अवकाशकालीन गृहकार्य कक्षा:- 4

प्रश्न 1 संज्ञा के प्रकार लिखों और उनके उदाहरण लिखों।

प्रश्न 2 अपने प्रिय मित्र और प्रिय अध्यापक के बारे में पाँच लाइने लिखों।

प्रश्न 3 अवकाश के लिए प्रार्थना को प्रार्थना पत्र लिखों

प्रश्न 4 नाव के बारे में पाँच लाइने लिखों। नाव का चित्र बनाओ और चित्र बनाओ।

प्रश्न 5 मुहावरों का अर्थ लिखों

1 जान में जान आना