HOLIDAYS HOME WORK
CLASS XI A (2018-19)

ENGLISH

NOTICES

Q.1. Your School is organising a fete to collect funds for charity. Only school students are eligible to put up the stalls. As Head Boy/Head Girl of Sant Nirankari Public School, draft a notice in not more than 50 words to put up announcing sale of stalls giving all necessary details.

Q.2. You are Nitish/Shanaya, the editor of your school magazine. Prepare a notice to be displayed on the school notice board inviting articles, poems etc. from the students and teachers for the magazine which is to be brought out in the month of December, 2018, in about 50 words.

ARTICLES

Q.3. Computer games and video games have become popular with children today. As a result outdoor games seem to have no place in their life anymore. You are Raghav/Ragini. You had the opportunity to play Hide-n-Seek when you visited your cousin living in a small town. Write an article on 'The Joys of Playing Outdoor Games', for your school magazine, in about 150-200 words.

Q.4. The craze for junk food is at a rise among the children. You are worried about its impact on health. You decide to write an article on 'Say No to Junk Food', to be published in your school magazine. Write the article in about 150-200 words.

LETTERS

Q.5. Write a letter to a national daily, addressing the Editor about how students have become totally dependent on coaching and tuition classes which are mushrooming everywhere. Students feel that attending regular classes is a waste of time. This is a cause of concern for schools and teachers. You are Nitin / Nivisha. Write your opinion on this concern in about 150 words.

Q.6. You are Sanket/Sanchita living at Nirankari Colony, Delhi. Write a letter to the editor of a newspaper, drawing attention of the authorities towards the insanitary conditions, prevailing in your neighbourhood due to the garbage thrown around by the weekly bazaars vendors, who never care to pick up their garbage.

Q.7. You purchased a frost free Godrej Refrigerator from ABC company, Karol Bagh, Delhi. After using it for a month you found that the freezing section is not functioning. Write a letter to the Sales Manager complaining about it, you are Samipta/Sameer, 23, Lakeview Road, Delhi

LITERATURE

Q.8. How did the grandmother of the author breathe her last in the chapter 'The Portrait of a Lady' and what did the sparrows do?

Q.9. Which preparations did the author make for undertaking this historical sea voyage in the chapter 'We're not afraid to die-if we can all be together'?

Q.10. How does Aram describe the 'spirits of his tribe' in the story, 'The Summer of Beautiful White Horse'? What was the hallmark of his tribe?

BIOLOGY

- Prepare a Herbarium having 10 specimen sheets and also write the classification of the concerned plant.
- Make an insect box having 10 insects displayed, with their classification.

.

ASSIGNMENT

Q1.what is meant by living? Give any 4 defining features of life forms.

Q2. Define metabolism.

Q3. Amoeba multiplies by mitotic division. Is this phenomenon growth or reproduction.

Q4. Define taxon.What is meant by taxonomic hierarchy. Give flow diagram.

Q5.A plant may have different names in different regions of the country or world. How do botanists solve this problem?

Q6. Fungi are cosmopolitan in nature, write their role in daily life.

Q7.How is five kingdom classification advantageous to two kingdom classification..

Q8. Diatoms are pearls of ocean, why? What is diatomaceous earth.

Q9. Are chemosynthetic bacteria autotrophic or heterotrophic..

Q10. Why bryophytes called the amphibians of the plant kingdom?

Q11. Comment on life cycle and nature of a fern prothallus.

Q12. How male and female gametophyte of pteriodophytes and gymnosperm different from each other..

Q13. Give example of plant with haplontic, diplontic, haplodiplontic life cycle?

Q14. Explain Mycorrhiza and coralloid roots.

Q15.What is role of feathers in birds.

Q16.Name organisms that exhibit bioluminescence..

Q17. Differentiate between open and closed circulatory system, Oviparity and viviparity, direct and indirect development, polyp and medusa.

Q18. Mention similarity between Aves and Mammals, Frog and Crocodile and Turtle and Pila.

Q19. Give differences between Chordates and non chordate

Q20.Mammals are most adapted among vertebrates. Elaborate.

Q21.Distinguish between families Fabaceae, Solanaceace,Liliaceae .

Q22. Name and draw different types of placentation

Q23.Name the body pat modified in the following for food storage-Carrot,Colocasia,Sweet Potato,Asparagus,Radish, Potato,Dahila, Turmeric, Gladiolus, Ginger, Potrulaca.

Q24. Draw various types of aestivation

Q25.Give difference between phellogen and phelloderm

Q26.What is difference between lenticels and stomata?.

Q27.Write functions of sieve tube, interfasicular Cambium, Collenchyma, Aerenchyma.

Q28. Give distinguishing features Of Dicot stem and Monocot stem.

Q29.Give features of Monocot and Dicot root.

Q30. Plants require water for their survival. But when watered excessively, plants die. Discuss.

Computer Science

- Complete the back exercise of Chapter no- 1 to 4 in your notebook.
- Numericals to be done in notebook
    1. Convert 0100 1111 0000 1011 from binary to hexadecimal
    2. Convert fd7c from base 16 to base 2
    3. Convert 75 from base 8 to base 2
    4. Convert 1111 from base 2 to decimal
    5. Convert 214 from decimal to binary
    6. Convert 0001 0001 from base 2 to decimal
    7. Convert A9A8 from base 16 to binary
    8. Convert 122 from decimal to binary
    9. Convert 73 from base 10 to base 2
    10. Convert 12 from base 8 to base 2

PHYSICS

1. Think about a new idea/initiative/creation/innovation. The idea may help the problems of pollution, water conservation, energy conservation, global warming, traffic problem or any general nature. Write a presentation on it. You can also use multi-media to present your idea.
2.Complete your practical file. (4 experiments and 2 activities)

3.Write five latest experiments which are being conducted in the field of physics around the world in your physics note book.

 4.   Do the following.

i) All/left in-text questions of chapters 2, 3 of NCERT

ii) All/left the back-exercises including additional questions of chapters 2, 3 of NCERT

iii) Two questions each related to every topic from chapter 2.

   The questions must be from any competitive exam.

MATHEMATICS

1. Convert the following into degree –minute – second.
   (a) 20.1025   (b) 15.5757
2. Convert the following into decimal-degree
   (A) 15° 34′33″
   (b) 20° 6′9″

3. Convert into degree

   (a) 5

   (B) 11/16

4. Find the angle between hour hand and minute hand at 3:30 am

5. Find the value of the trigonometric function

COT($-15\pi/4$);   SIN($31\pi/3$)

6. Prove that $\sin 20° \sin 40° \sin 60° \sin 80° = 3/16$

7. Prove that $\dfrac{\cos 6x + \cos 4x + 15\cos 2x + 10}{\cos 5x + 5\cos 3x + 10\cos x} = 2\cos x$

8. Prove that $\dfrac{\sec 8x - 1}{\sec 4x - 1} = \dfrac{\tan 8x}{\tan 2x}$

9. Prove that $\sqrt{2 + \sqrt{2 + 2\cos 4x}} = 2\cos x$

10. Solve $\cos 3x - \sin 2x = 0$

11. Solve $\cos 3x + \cos x - \cos 2x = 0$

12. In ΔABC if $a = 3$, $b = 4$ and $\sin B = 1$ find $\sin A$

13. In any ΔABC prove that $\dfrac{b^2 - c^2}{\cos B + \cos C} - \dfrac{c^2 - a^2}{\cos C + \cos A} - \dfrac{a^2 - b^2}{\cos A + \cos B} = 0$

14. Do all the exercise of chapter 3 of NCERT with example

15. Do all problems marked in class by teacher from GUPTA AND BANSAL

PHYSICAL EDUCATION

Make Project on the following :-

1. Any one game of your choice with labelled diagram of field. Along with rules, terminologies and skills required,

Collect information about various famous Sports Awards