

ASN Sr. Sec. School

Class 12

HOLIDAY HOMEWORK 2019-2020

Note: Assignment Questions are to be done in respective subject notebook.

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SCIENCE

ENGLISH

- DO THE FOLLOWING ASSIGNMENT IN YOUR LANGUAGE NOTEBOOK.
- THIS WILL BE A PART OF YOUR INTERNAL ASSESSMENT

WRITING SECTION

1. ATTEMPT THE FOLLOWING IN 50 WORDS (INCLUDING FORMAT) 4 MARKS

- a) You are Sukant Verma, Secretary of the Student's Council of your school. Write a notice for the school notice board inviting volunteers for a one day Blood Donation Camp organized by the Red Cross Society of India at your school.
- b) Your school is organizing a tour to Kullu and Manali during the summer vacation. Write a notice giving detailed information to the students. You are Sukant Verma, Head Boy, Modern School, Noida.
- c) You are Arjun, the Secretary of Social Service Club of DAV Public School, Sonipat. Design a Poster to create awareness on the importance of donating eyes to save lives of people.
- d) On behalf of Ministry of Tourism, Government of India, draft a Poster on the occasion of World Tourism Day to promote tourism in India.
- e) The Sports Section of the Times of India requires an Editor for their section. Draft an advertisement giving specifications.
- f) A computer professional with computer hardware expertise requires a part-time job for maintenance and repair of computers. Provide relevant details.
- g) You are the General Manager of Apex Company, which requires posh bungalows on company lease, as guest houses. Draft an advertisement to be published in a leading daily.
- h) You wish to dispose of your Honda City, which is three years old. Draft an advertisement for this purpose.
- i) Fragrance India is launching a new perfume. Design an advertisement for its promotion.
- j) You are Anamika. You want to start Music and Dance classes for children between 8 to 12 at your residence. Draft an advertisement to be published in a leading daily giving all the relevant details.
- k) The Resident Welfare Society of your area is organizing a BAL MELA on Children's Day. There will be food stalls, a lot many exciting games along with many attractive prizes. Extend an invitation to the residents to participate in the programme.
- l) You have been invited as a judge for a debate competition by DPS, Indirapuram. Draft a formal refusal and a formal acceptance for the same.
- m) Vanshika has got success in CBSE-PMT. She wants to celebrate her admission to Indira Gandhi Medical College, Mumbai. Write an informal invitation giving details .
- n) Your school is going to hold a workshop on Child Care. Draft an invitation to be extended to Dr. Vipin Sood, Director Health Services, New Delhi .

2. READ THE PRESCRIBED NOVEL “THE ALCHEMIST’ AND WRITE A CRITICAL REVIEW OF THE SAME IN 200 WORDS.

MATHS

1. Solve miscellaneous exercise of inverse trigonometric functions, matrices and determinants, continuity and derivatives, applications of derivatives and L.P.P from NCERT book.
2. Revise the chapters from NCERT book including examples.
3. Solve fifteen questions per chapter covered in NCERT book from any reference book.
4. Practice CBSE questions based on the topics from ten year.com
5. Make a small note book and write all the formulæ from concerned chapters.

CHEMISTRY

1. Prepare Investigatory Project in chemistry for board examination. Collect the information of the related project.
2. Complete NCERT Exercise given at the end of each chapter (ch-10-14) in assignment register.
3. Write name reactions, distinguish test and mechanism separately of all chapters of organic chemistry in assignment register.
4. Complete the practical file as per instructions given in lab.

Learn all test and their reaction of SALT ANALYSIS

BIOLOGY

Do the following assignment in the class notebook

Human Reproduction

1mark

1. When a male is known as sterile?
2. What is meant by regeneration?
3. Which hormone in females stimulates the production of milk during lactation?
4. How many sperms will be produced from 100 primary spermatocytes and how many eggs will be produced from 100 primary oocytes?
5. What is the function of Leydig cells?
6. What is spermiogenesis?
7. Name the type of placenta in mammals.
8. Name the pregnancy hormone.
9. Why is there no menstrual cycle during pregnancy?
10. Mention the role of relaxin.

2 marks

11. State differences between spermatogenesis and oogenesis.
12. What is colostrum? What is the important function attributed to it?
13. Describe the formation and the function of corpus luteum.

14 Draw a labelled diagram of the microscopic structure of a human sperm.

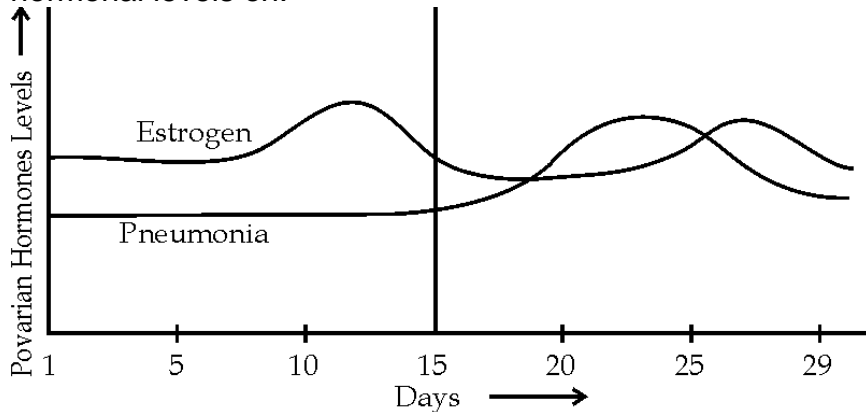
3marks

15. What are the different stage of spermatogenesis, show these stage diagrammatically?

16. Give a labeled diagram of the sectional view of the ovary.

17. Why is the human placenta referred to as haemochorial type? Name the hormone it secretes to facilitate parturition.

18 Study the graph given above showing the levels of ovarian hormones during menstruation and correlate the uterine events that take place according to the hormonal levels on:



(i) 6-15 days

(ii) 16 - 25 days

(iii) 26 - 28 days (if the ovum is not fertilized)

19 Expand the following and explain them.

a) IVF

b) ZIFT

c) IUI

d) MTP

5 marks

20. What is the role of the following hormones in the female reproductive cycle

(i) FSH, (ii) LH, (iii) Progesterone?

21. Describe the sequence of changes in the body of a pregnant woman upto the time of parturition.

22. Where does oogenesis takes place? Describe diagrammatically the stages of the process?

23. Draw a labelled diagram of the electron microscopic view of the mammalian sperm and explain its formation.

24. Describe the male accessory glands giving their functions.

25. Draw a labelled sketch of the cross section of a part of seminiferous tubule of the testes of a adult human.

26. What is menstruation? What are the specific actions of FSH, LH, estrogen and progesterone in the menstrual cycle?

27. (a) Draw a labelled diagram of sectional view of human ovary showing different stages of oogenesis.

(b) Where is morula formed in humans? Explain the process of its development from the zygote.

28 Give a schematic representation of oogenesis in humans. Mention the number of

chromosomes at each stage. Correlate the life phases of the individual with the stages of the oogenesis.

(a) Give a schematic representation of spermatogenesis in humans.

(b) At which stage of life does gametogenesis begin in human male and female respectively?

(c) Name the organs where gametogenesis gets completed in human male and female respectively.

29 Draw a labelled diagram of sectional view of a human ovary showing various stages of follicles growing in it.

Reproductive Health

1 mark

1. What is the chemical constituent of Oral contraceptive pills.
2. Name any copper releasing IUD.
3. Name the technique used for determining the sex and condition of the foetus.
4. List two most common STDs

2 marks

5. Write the full form of the following (i) MMR , (ii) IVF.
6. Elaborate the following abbreviation.(i)GIFT (ii) ICSI (iii) ART.
7. What is 'Saheli'? Who prepared it?
8. List some reasons of infertility.
9. Given the causal organisms of the following STDs. (i) Syphilis (ii) Genital Herpes.
10. What is periodic abstinence?
11. What is vasectomy?
12. What are test tube babies?
13. Describe the technique by which genetic disorder in a developing foetus can be detected.
14. What do you mean by STDs? Describe Gonorrhoea and Syphilis.
15. Why medical termination of pregnancy is done. Is MTP legalized in India.
- 16 What do you understand by amniocentesis? Why is there a statutory ban on this? Give reason.
- 17 A mother of one year old daughter wanted to space her second child. Her doctor suggested CuT. Explain its contraceptive actions.
- 18 How do surgical procedures prevent conception in humans? Mention the way it is achieved in human males.

3 marks

19. What is birth Control? Briefly explain the surgical methods of birth control with suitable diagram.
20. Explain various special techniques used in assisted reproduction technologies

Practical

1. Complete your practical file
2. Complete the project work and record it in file on the topics given below:
 - a. Effect of light on the Germination of Seeds
 - b. Hydroponics

- c. Effect of various types of Music on the growth of the plants.
- d. Effect of Fertilizers .
- e. Effect of Antibiotics on the growth of Microbes.
- f. To prepare Biodegradable plastic.
- g. Comparative study of presence of Nutrients in dry and fresh Leaves.
- h. Comparative study of protein content in different brands of milk available in the market.
- i. Comparative study of tannin content in different brands of Tea available in the market.
- j. To study the different pigments present in Flowers and their uses as natural colouring agents.
- k. New Research in the field of Medical sciences/Genetics/Biotechnology.

PHYSICS

Do complete

(i) Prepare report (Title of project, acknowledgement, certificate, index, introduction, requirements, diagram, principles involved, formula used, observation table, calculation, interpretation, application to society, future scope, bibliography) of investigatory project.

(ii) Writing part of all Experiments in experiment file for which observations have been taken in lab before vacation.

(iii) All the assignments given till date and all questions from physics question bank of unit 1, 2, 3,4 and 5 .

COMPUTER SCIENCE

Project Work

The project has to be developed in C++ language with Object Oriented Technology and also should have use of Data files. Theme of the project can be Any subsystem of a System Software or Tool Any Scientific or a fairly complex algorithmic situation School Management, Banking, Library Information System, Hotel or Hospital Management System, Transport query system Quizzes / Games Tutor, Computer Aided Learning Systems

ECONOMICS

- 1) Prepare one handwritten Project of 35-40 pages on any **one** of the following topics-
 - a) Human Development Index
 - b) Goods and Services Tax and its impact on GDP
 - c) Self Help Groups
 - d) Contemporary Employment Situation in India
 - e) Disinvestment Policy in India
 - f) Health Expenditure Analysis of India
 - g) Demonetization
 - h) Make In India
 - i) Budget and its components
 - j) Jan Dhan Yojana
 - k) Inclusive Growth Strategy
 - l) Digital India: Step towards the future
 - m) Any concept from the syllabus

Refer the guidelines provided by CBSE on its official site. Take into consideration whatever has been discussed in class.

- 2) Revise the topics covered in class.

PSYCHOLOGY

CASE STUDY FILE:

1. You are required to choose a person on whom you want to do your case study. The person should be from 14-18 years of age and willing to cooperate with you.
2. Complete the introductory section of your report (as discussed in the class)
3. Interviews need to be taken and need to be analyzed during the summer break (as discussed in the class)

ASSIGNMENT AND PRACTICAL:

4. Complete the practical that was discussed in the class
5. Complete the assignment given to you on Meeting Life Challenges

PHYSICAL EDUCATION

- 1- What do you mean by motor development?
- 2- Define Gross motor and fine motor development.
- 3- What type of resistances can be used for developing strength among children?
- 4- What do mean by spinal curvature deformities?
- 5- What is “an abnormal curvature of spine at front” termed as?
- 6- Suggest any free hand exercises for correcting round shoulder.
- 7- Explain the factors effecting motor development.
- 8- Mention the advantages and disadvantages of weight training.
- 9- Discuss the corrective measures for common postural deformities.
- 10- Explain the Kyphosis, Lordosis, and Scoliosis. Explain their causes, precautions and remedies.
- 11- Mention exercise guidelines for early childhood and later childhood.
- 12- Describe Round shoulder, Knock – knee, Bow legs, and flat foot. Suggest physical activities as corrective measures for these deformities.
- 13- What do you mean by corrective posture? Explain the standing and sitting postures. What are the causes of a bad posture.
- 14- Discuss the physical exercises as corrective measures for the deformities of spinal curvature.
- 15- Suggest at what age children should be exposed to weight training and justify.

PRACTICAL SYLLABUS:

Students will prepare their practical file in following manner:

- 1- For physical fitness- students have to write in practical file about following events from theory book lesson no. 6.
 - i- 50 m. Standing starts.
 - ii- 60 M. Run/ walk
 - iii- Siting and Reach test.
 - iv- Partial curl up test.
 - v- Push up (boys) and modified push up(Girls)
 - vi- Standing Broad jump.

General motor fitness Test:

- i- Barrow Three Items.
 - ii- General motor ability standing broad jump.
 - iii- Zig-Zag Run, medicine ball put 3 kg for boys and 1 kg for girls.
- 2- Proficiency in games and sports.

Students will write about one games from following.

Basketball, Football, Kabaddi, Kho- Kho, Volleyball, Handball, Hockey, Cricket, Bocce, and Unified Basketball, (CWSN)

- 3- Yogic Practice - Students will write about 5 yogic exercises with their procedures, Benefits and Contraindications.
- 4- Students will complete their practical file

HOME SCIENCE

- 1 Complete your practical file Follow the instructions given in class
- 2 complete the survey report.
- 3 complete the project file.
- 4 read the lesson on food hygiene and complete the questions given at the end of the chapter.
- 5 look for vegetarian recipes that can be given to a pregnant woman and a lactating mother. Write two recipes suitable for each.