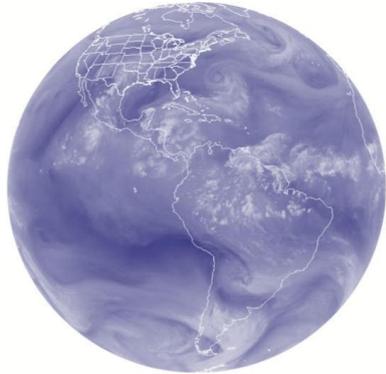




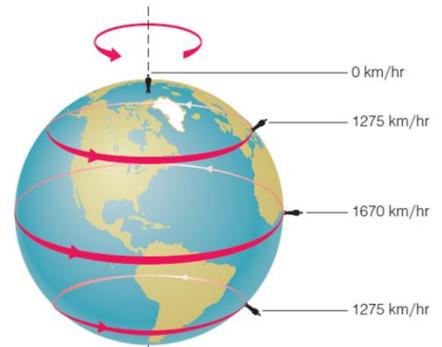
# Class- 12th



# HAPPY

# SUMMER VACATION

(01.06.2019 to 30.06.2019)



**NAME:**

.....

**CLASS : .....**

**SECTION: .....**

**ROLL NO. ....**



B. K . Sr. Sec. Public school, Bawani Khara

Web Site : [bkssps.com](http://bkssps.com)

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LEARN | WORK | PLAY | EXPLORE | GROW



## Respected Parents

Summer Vacation will start from 01.06.2019 to 30.06.2019 and School will reopen on 01.07.2019 as per scheduled time-table i.e.:- 8: 00 am to 2:00 pm.

### Instructions (for Students):

- You are requested to fix your child time-table during vacation so that they can do their holidays homework regularly and also enjoy the holidays.
- Please arrange the relevant material which is required to prepare projects, your work.
- Please motivate your children to read good books during vacation and please arrange the same for them.

### आदरणीय अभिभावकगण

हमारे स्कूल का ग्रीष्मकालीन अवकाश 01.06.2019 से 30.06.2019 तक रहेगा। विद्यालय 01.07.2019 को खुलेगा। 01 जुलाई 2019 से स्कूल का समय 08:00 बजे से 2:00 बजे तक रहेगा।

### निर्देश (विद्यार्थियों के लिए) :-

- आपसे अनुरोध है कि गर्मियों की लम्बी छुट्टियों के दौरान कृपया बच्चों की समय सारिणी सुनिश्चित करें, जिससे बच्चे छुट्टियों का आनंद उठाने के साथ-साथ अपना छुट्टियों का कार्य भी सुचारु रूप से करें।
- बच्चों को प्रेरक / अच्छा साहित्य पढ़ने के लिए प्रोत्साहित करें तथा उपलब्ध भी कराएँ।
- बच्चों को प्रोजेक्ट इत्यादि बनाने के लिए उपयुक्त सामग्री उपलब्ध कराएँ।

**Note : It is compulsory for a child to be present in school from 01 July 19**  
(01 जुलाई 2019 से विद्यालय में बच्चों का उपस्थित होना अनिवार्य है।)



## CHAPTER - 8

Q. No. 1 to 5 ( Marks -2)

Q. No. 6 to 10 ( Marks -3)

Q. No. 11 to 15 ( Marks -5)

1. What is vaccine? Give an example of vaccine produced by recombinant technology.
2. A person has been diagnosed as HIV positive.
  - a) Name the test which the person underwent.
  - b) Write full name of pathogen involved and describe its structure.
  - c) What/Which particular cells of this person are likely to get destroyed.
3. Name the and explain the type of barrier of innate immunity where some cell released interferon where infected.
4. What are oncogenes? Explain.
5. Describe structure of Antibody.
6. Write expanded form.
  - a) AMIS
  - b) CMIS
  - c) NACO
7.
  - a) How did at what stage does plasmodium enter into human body?
  - b) Why does victim show symptoms of high fever?
  - c) With the help of how chart only show the stages of Asexual lee production in the life of the parasite in the infected human.
8.
  - a) How does activated sludge get produced during sewage treatment?
  - b) Explain how this sludge is used in biogas production.
9. Mention the role of bacteria in  $N_2$  fixation.
10. Dewing Secondary treatment of the primary effluent, how does the significant decrease in DOD occur?
11. Milk starts to coagulate when lactic acid bacteria (LAB) are added to warm milk as starter. Mention any other two benefits LAB provides.
12. What is economic value of spirulina?
13. Write the scientific name of microbe used for fermented matted ceveals and foxit juices.
14. Which of the following produces suife cell proteins?  
Axospinillum, sonalika, spinilina, sacchromyce.
15. Which of the following cyanobacteria that can fix atmospheric nitrogen.  
Azospifillum, oscillotoria, spirullive.

## BIOLOGY

1. Draw a well labeled diagram of the –
  - a) Anatropous ovule.
  - b) Embryo of dicotyledons.
  - c) Male and female gamete of human.
  - d) Blastula stage.
2. Short Answer questions –

- a) Which is a better mode of reproduction sexual or asexual? Why?
- b) What is vegetative propagation?
- c) Why do organisms like algae and fungi shift from asexual mode reproduction to sexual mode?
- d) Write the mode of asexual reproduction in the following organisms- Bryophyllum, potato, yeast, Rhizopus, Penicillium.
- e) Distinguish between budding and fission.
- f) Why is the process of fertilization in a flowering plant referred to as double fertilization? Explain.
- g) How does cleistogamy ensure autogamy?
- h) A pollen grain in angiosperm at the time of dehiscence from an anther could be 2-celled or 3-celled. Explain.
- i) "Incompatibility is a natural barrier in the fusion of gametes". Justify the statement.
- j) How corpus luteum is formed? What is its function.
- k) What is placenta? Give its functions.
- l) What are Leydig cells present? What is their role in reproduction.
- m) Explain the term MTP.
- n) Explain the zygote intrafallopian transfer technique (ZIFT).

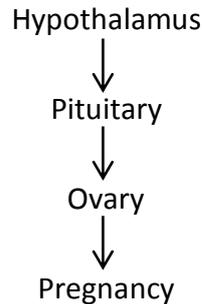
3. Long Answer Questions –

- a) Enumerate the differences between asexual and sexual reproduction. Describe the types of asexual reproduction exhibited by unicellular organisms.
- b) Differentiate parthenocarpy and apomixis different phenomena? Discuss their benefits.
- c) What is double fertilization. Explain the process of double fertilization. Explain the process of double fertilization in an angiospermic plant. Write its importance.
- d) What is menstrual cycle? Write down the hormonal control over the menstrual cycle.
- e) Differentiate between gametogenesis in human males and females on the basis of –
  - i. Time of initiation of process.
  - ii. Products formed at the end of process.
- f) Distinguish between :
  - g) Monila and blastula.
  - h) Blastulation and gastrulation.
  - i) Describe chemical and physical events of fertilization.
  - j) Define amniocentesis.
  - k) Explain various special techniques practiced to assisted reproduction technologies (ART).
  - l) Enumerate any five reasons for introducing sex education in school going children.

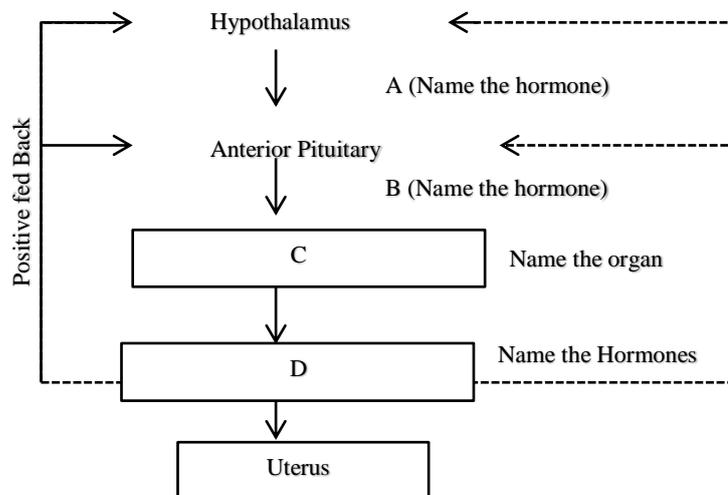
4. Complete the blanks –

- a) Indicate the stages where meiosis and mitosis occur (1,2,3) in flow chart.  
 Megaspore cell mother 1 → Megaspores 2 → Embryosac 3 → Egg.

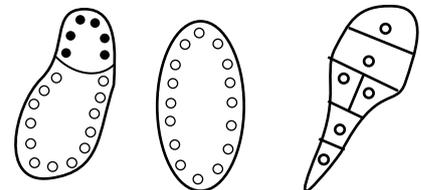
- b) Mention the ploidy of the different types of cell present in the female gametophyte of an angiosperm.
- c) Study the flow chart given below. Name the hormones involved at each stage and explain their functions.



- d) Fill the blanks A,B, C,D.



- e) Correct order of endosperm type –
- Cellular, Holobial, Free Nuclear
  - Cellular, Free Nuclear, Helobial
  - Free Nuclear, Cellular, Helobial



5. Answer the following questions –

- Why does failure of testes to descend in scrotum produce sterility?
- Mention the function of mitochondria in sperm.
- Write location and function of Sertoli cell.
- Name the embryonic stage that gets implanted in the uterine wall of a human female.
- Mention the difference between spermatogenesis and spermiation.
- How does the clitoris act as an effective contraceptive for a human female?
- Why is tubectomy considered a contraceptive method?
- Why is 'saheli' a well-accepted contraceptive pill?
- How does penicillium reproduce asexually?
- Name an organism where cell division is itself a mode of reproduction.

## PHYSICS

1. Learn the theory of the following units.

- Electrostatics
- Current electricity

- c) Magnetic field
2. Solve all NCERT numericals of above three units in your numerical note book.
3. Solve atleast 30 numericals from competitive exam questions from each unit.
4. Make any project report on any topic from CBSE syllabus.
5. Complete practical file (atleast 4 experiments).

## **ENGLISH**

1. Learn the following topics properly :
  - a) The Last Lesson
  - b) Lost Spring
  - c) My Mother at Sixty Six
  - d) The Third Level
  - e) The Tiger King
  - f) An Elementary school classroom in a slum.
2. Write five words daily and use them in sentences.
3. Read a 'News Article' daily from English newspaper and write in notebook.
4. Revise the following topics also:
  - a) Notice Writing
  - b) Poster- Making
  - c) Advertisement Writing
  - d) Informal Letter Writing
  - e) Formal Letter Writing
  - f) Article Writing

## **CHEMISTRY**

1. Revise NCERT questions of the following units :
  - a) Solution
  - b) Electrochemistry
  - c) Chemical kinetics
  - d) Surface chemistry
  - e) General principle and processes of isolation of elements
  - f) d & f-block elements
  - g) Polymer
2. Complete the practical file (Atleast 5 practicals).
3. Solve atleast five example of the following topic :
  - a) Molarity, Molality, Normality
  - b) Relative lowering in vapour pressure
  - c) Osmotic pressure
  - d) Elevation in boiling point
  - e) Depression in freezing point
  - f) Degree of dissociation/association
  - g) Faraday's first law of electrolysis
  - h) Kohlrausch's law
  - i) Nernst equation for electrode potential and EMF of a cell
  - j) Gibbs free energy

- k) Activation energy
- l) Order of reaction
- m) Mechanism of reaction

## **Maths**

1. Complete your notebook
2. Revise Ch. – 2,3,4,5,6,7 & 8 with examples and NCERT portion.
3. Make a chart on trigonometry.

## **Music**

1. Make a chart diagram according to given group.
  - a) Tanpura
  - b) Thath
  - c) Sitar
  - d) Tabla
  - e) Guitar
2. Rivse topics given below:
  - a) Taal (Jhaptaal and Rupak Taal)
  - b) Jivan Prichya (Faiyaz Khan and Bade Gulam Ali Kha)
  - c) Samay Sidhanth
  - d) Raag (Bhairav)
  - e) Paribhasha

## **Physical Education**

1. Chapter Learn & Revise – ch. 1 & 2.
2. Notebook Complete