SUMMER VACATION TASK

CLASS VII

SUBJECT-BIOLOGY

Multiple Choice Questions

1. Pitcher plant traps insects because it

(a) is a heterotroph

(b) grows in soils which lack in nitrogen

(c) does not have chlorophyll

(d) has a digestive system like human beings.

2. Organisms which prepare food for themselves using simple naturally available raw materials are referred to as

(a) heterotrophs

(b) autotrophs

(c) parasites

(d) saprophytes.

3. In the absence of which of the following, will photosynthesis not occur in leaves?

(a) Guard cells

(b) Chlorophyll

(c) Vacuole

(d) Space between cells

4. The term that is used for the mode of nutrition in yeast, mushroom and bread mould is

(a) autotrophic

(b) insectivorous

(c) saprophytic

(d) parasitic.

5. When we observe the lower surface of a leaf through a magnifying lens we see numerous small openings. Which of the following is the term given to such openings?

(a) Stomata

(b) Lamina

(c) Midrib

(d) Veins

6. Two organisms are good friends and live together. One provides shelter, water and nutrients while the other prepares and provides food. Such an association of organisms is termed as

(a) saprophyte

(b) parasite

(c) autotroph

(d) symbiosis.

7. Which of the following raw materials is available in the air for photosynthesis?

(a) Oxygen

(b) Carbon dioxide

(c) Nitrogen

(d) Hydrogen

Very Short Answer Type Questions

8. The nucleus in a cell is surrounded by a jelly like substance called _____.

9. Lichen is a symbiotic association between _____ and fungi.

10. Name the edible fungi.

11. Name the organism responsible for converting atmospheric nitrogen into soluble forms.

12. Name a plant that has both autotrophic and heterotrophic mode of nutrition.

13. Name the pores present in leaves through which exchange of gas takes place.

Short Answer Type Questions

14. Draw a labelled diagram of cell showing nucleus and cytoplasm.

15. Sun is called the ultimate source of energy for all living organisms. Comments

16. Potato and ginger are both underground parts that store food. Where is the food prepared in these plants?

17. Photosynthesis requires chlorophyll, and a few other raw materials. Add the missing raw materials to the list given below:

Water, minerals, __ (a)___,___(b)___

18. A goat eats away all the leaves of a small plant (balsam). However, in a few days, new leaves could be seen sprouting in the plant again. How did the plant survive without leaves?

19. Unscramble the following to form terms related to modes of nutrition.

(i) RASPAEIT

(ii) ROPEHYTSAP

(iii) TOROPHAUT

(iv) SIBIOMSYS

20. Nitrogen is an essential nutrient for plant growth. But farmers who cultivate pulse crops like green gram, bengal gram, black gram, etc. do not apply nitrogenous fertilisers during cultivation. Why?

21. Wheat dough if left in the open, after few days, starts to emit a foul smell and becomes unfit for use. Give reason.

22. Sunlight, chlorophyll, carbon dioxide, water and minerals are raw materials essential for photosynthesis. Do you know where they are available? Fill in the blanks with the appropriate raw materials.

(a) Available in the plant: _____

(b) Available in the soil : _____

(c) Available in the air: _____

(d) Available during day: _____

23. Observe the diagram given as figure 1.1 and label the following terms given in the box.
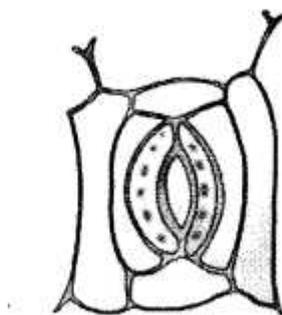
[Stomatal opening, Guard cell]

Fig. 1.1

24. Match the organisms given in column I with their mode of nutrition given in column II.

Column 1		Column II	
(a)	Mango tree	(i)	Insectivorous plant
(b)	Mushroom	(ii)	Heterotroph
(c)	Pitcher plant	(iii)	Autotroph
(d)	Cuscuta	(iv)	Saprophyte
(e)	Elephant	(v)	Parasitic

25. Wild animals like tiger, wolf, lion and leopard do not eat plants. Does this mean that they can survive without plants? Can you provide a suitable explanation?

26. Fill in the blanks of the paragraph given below with the words provided in the box. [Chlorophyll, Energy, Food, Carbon dioxide. Water, Photosynthesis]

(Note: A word can be used more than once)

Leaves have a green pigment called _____(a)_____ which captures _____(b) _____ from sunlight. This _____(c)_____ is used in the process of _____(d)_____ and along with other raw materials like _____ (e) _____ and ____ (f) _____ synthesises _____.

27. Can you give me a name?

Solve each of the following riddles by writing the name of the organism and its mode of nutrition. One riddle is solved to help you.

(a) I am tall but I cannot move. I am green and can prepare my own food. Tree, autotroph

(b) I live in water; people keep me in an aquarium and feed me. _____ , _____

(c) I am small and I can fly. I disturb your sleep, bite you and suck your blood which is my food. _____, _____

(d) I am white and soft. I grow well in the rainy seasons. Children pluck me from the ground and admire me. I absorb nutrients from decomposed dead parts of plants and animals in the soil. _____ , _____

SAINIK SCHOOL BHUBANESWAR

CLASS-VII
VACATION TASK
SUBJECT- CHEMISTRY

Answer the following questions.

1. Which parts of the black sheep have wool?

2. What is meant by the following terms? (a) Rearing(b) Shearing (c) Sericulture. (d) Sorter's disease.

3. Match the words of Column I with those given in column II:

Column I	Column II
a) Scouring	a) Yields silk fibres
b) Mulberry leaves	b) Wool yielding animal
c) Yak	c) Food of silk worm
d) Cocoon	d) Reeling
	e) Cleaning sheared skin

4. Make a table of some Indian breeds of sheep.

5. Collect pieces of silk cloth of various types and paste them in your scrap book, identify the types of silk.

SAINIK SCHOOL BHUBANESWAR

SUMMER VACATION TASK

Sub-Physics
7THClass

1. What is the usual temperature range of a laboratory thermometer?
2. What is the usual temperature range of a KINK thermometer?

3. What is meant by good conductors of heat? Give examples of two materials which are good conductors of heat.

4. What is meant by poor conductors of heat (or insulators of heat)? Give two examples of materials which are poor conductors of heat (or insulator)

5. Write four uses of a laboratory thermometer?

6. Write four uses of a KINK thermometer?

7. Define conduction, convection, radiation Give one example to each?

8.Write about importance of color of objects in everyday life?

SUMMER VACATION TASK-2019-20

CLASS-7 GEOGRAPHY

1) Collect pictures of natural environment and man-made environment and paste it in your note-book.

2) State some problems arising out of the growing number of people in your cities or locality.

3) Imagine an ideal environment where you would love to live. Draw the picture of your ideal environment.

4) Collect pictures of five to ten monuments and find out which are the rocks used to build them.

5) How is environment important to us?

6) Why is our environment changing?

7) Define the following:-
   a) Fossils b) Igneous rocks c) Sedimentary rocks d) Metamorphic rocks

8) Talk to your grandparents or parents and collect information about-
   a) The number of trees present in that locality.
   b) The indoor and outdoor games they played.
   c) How did they make themselves comfortable during hot summers and cold winters.

9) What are the uses of rocks?

10) Draw the diagram of Earth's Interior.

VACATIONAL TASK
CLASS-VII(HISTORY)

Q.1: Who was considered a foreigner in the past ?

Q.2: In what ways has the meaning of the term "Hindustan" charged over the Centuries ?

Q.3: What were some of the major religious ddvelopments during this Period ?

Q.4: How were the affairs of Jatis regulated ?

Q.5: What does the term pan-regional empire mean ?

Q.6: What are the difficulties historians face in using manuscripts ?

Q.7: How do the historians divide the past into periods ? Do they face any problem in doing so ?

Q.8: Compare Map 1 and Map 2 with the present day map listing similarities and differences .

Q.9: Write a short note on records and documents.

Q.10: Write a brief note on all types of surveys.

Q.11: Write the preamble of the constitution of India .

Q.12: Explain the terms :

(a)Sovereign

(b)Socialist

(c)Secular

(d)Democratic Republic

(e)Liberty

SUMMER VACATION TASK- 2019

CLASS – VII , SUB – MATHEMATICS

QUESTIONS FROM TEXT BOOK.

Chapter -1 : INTEGERS

    Exercise 1.1 – Q-7, 9 &10.

    Exercise 1.2 – Q-1 & 2

    Exercise 1.3 - Q-2, 5 & 8 .

    Exercise 1.4 - Q-1 , 6 & 7.

Chapter – 2 :   FRACTIONS & DECIMALS

    Exercise 2.1 – Q – 1,2 ,7 & 8 .

    Exercise 2.2 – Q – 1, 2 , 6 & 7.

    Exercise 2.3 – Q – 3 , 4 & 7 .

    Exercise 2.4 – Q – 3 & 4 .

    Exercise 2.5 – Q – 3, 4 , 8 & 9

    Exercise 2.6 – Q – 5 .

    Exercise 2.7 – Q – 2 , 3 , 4 & 5 .

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QUESTIONS FROM REFERENCE BOOK.

Q-1.Write the following rational numbers in ascending order:

$$\frac{3}{7} , \frac{3}{2} , \frac{3}{4}$$

Q-2.Find the ratio of
    i. 1m to 1 km
    ii. 1 week of Feb. to Feb. month of a non leap year..

Q-3. If we divide 1350 by –15, then what do we get ?

Q-4. subtract –100 from 100.

Q-5. The opposite of 20% increases is

Q-6. A car travelled North of Delhi by 90km and then to the South by 120km. What is the   position of the car with respect to its starting point?

Q-7. If a number 'x' is added to the number –25, the number obtained is 15. What is the   value of x?

Q-8. The product of two integers is 120. If one of them is -8, then the other integer will be

Q-9. The product of two integers is – 72. What is the value of other integer if one of them is 12?

Q-10. Multiplicative inverse of 9 is

Q-11. Additive inverse of 15 is

Q-12. simplify the following expression?

12[25 – {5 × 8(11 – 2 × 5)}]

Q-13 simplify the given expression?

[14 - 3{3 –(7 - 4)} +3(5 + 3 – 2)]

Q-14. If we add –22 to the difference of –7 and –17, then we get

Q-15. Ravi reads ½ part of a book in 1 hour. The part of the book read by him in 2 ¼ hours is

Q-16 . In a school, 4/5 of the students are boys. If there are 60 girls in the class, then number of boys is

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SUMMER VACATION TASK 2019

CLASS – VII   ENGLISH

1. Write paragraphs on 'Qualities of a Good Student' and 'My Parents'.

2. Write a letter to your friend to attend the wedding of your sister at your village.

3. Write a letter to your uncle thanking him for the gift he has sent you on your birthday.

4. Read the story 'Bringing up Kari' from your Supplementary Reader and attempt all the question answers.

5. Write down 20 nouns and 20 adjectives.

6. Read the story 'The Desert' from your Supplementary Reader and attempt all the questions.

7. Attempt all the question answers of the lesson 'Three Questions' from your English Reader.

8. Attempt all the questions on 'working with language' of the lesson 'Three Questions'.

9. Read the lesson 'A Gift of Chappals' from your English Reader and note down all the difficult words and their meanings.

10. Remember the poem 'The Squirrel' from your English Reader and write it down.

11. Write an article in about 100-120 words on 'A Library is good for all ----the old and young'. You are B C Natrajan of 120, Anupam Nagar, Delhi. Use the following clues :

- Best place in the School
- Reference books, help books, newspapers etc.
- Don't have to buy expensive ones
- Books to relax ---- novels, plays,etc.
- Books --- treasure of knowledge
- Spend leisure hours

CLASS -VII (H L - HINDI)

१. ' हम पंछी उन्मुक्त गगन के ' कविता को कंठस्थ करते हुए पाठ के प्रश्नोत्तर लिखिए ।

२. ' दादी माँ ' पाठ को पढ़कर पाठ के प्रश्नोत्तर लिखिए ।

३.बाल महाभारत को पढ़कर २५कठिन शब्दों छाँटकर लिखिए

४. किन्हीं ३० समानार्थी शब्दों के ३-३ पर्यायवाची लिखिए।

५. ४० शब्दों के विलोम शब्द लिखिए।

६. पत्र लिखिए –

क. छात्रवृत्ति प्रदान करने के लिए प्राचार्य को ।

ख.अपने वाद- विवाद प्रतियोगिता में प्रथम आने पर दादा जी को ।

७. निम्नलिखित पर अनुच्छेद लिखिए-

क. मेरा भारत महान

ख. ऋतुराज वसंत

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CLASS - VII (L L - HINDI)

१. ' सीखो ' कविता को पढ़कर याद कीजिए तथा पाठ के प्रश्नों के उत्तर लिखिए।

२. 'उत्कलमणि ' पाठ के प्रश्नों के उत्तर लिखिए।

३. ५ पेज सुलेख लिखिए ।

४. अनुच्छेद लिखिए –

क. मेरा गाँव /शहर

 ख. मेरा प्रिय खेल

५. अपनी किताब से २५ कठिन शब्दों का अर्थ लिखिए ।

६.२० शब्दों के ३-३ समानार्थी शब्द लिखकर उन्हें याद कीजिए ।

७. अपनी पुस्तक से २० शब्दों के विलोम शब्द लिखिए।

७. पत्र लिखिए –

क. गर्मी की छुट्टी में अपने आने की सूचना देते हुए अपने मामा जी को ।

ख. अपनी बहन की शादी मे आने के लिए अपने मित्र को ।

SUMMER VACATION TASK OF ODIA

Class-VII/Higher Odia

1-Write the poem Kalamanika.

2-Write all the question answer of this lesson.

3-Read the prose lesson Ramayana.

4-Write all the question answer of this lesson.

5-Write essay: Samayanubartita , Aadarsha Chhatra Jibana. ,Guru
   Divas, Barsa Retu , Durga Puja , Sharat Retu , Depavali

6-Write the poem Tara surjya .

7- Write all the question answer of this lesson .

8- Read the story Madahandikatha and write all the question answer
   of this lesson.

Class-VII/Lower Odia

1 - Write story chatura kua, Gaan sakala 1 & 2, Jana bahana nama lekha   1 & 2, Taphata lekha 1 & 2, Abhyasa page no 8 & 9, Kahila dekhi page no 12 to 19. (with pictures).

CLASS-7 (COMPUTER)

A. **Fill in the blanks:**

1. The base of octal number system is _____.

2. In Binary addition , 1+1 equals to _____.

3. _____ number system is understood by the human.

4. The base of _____ system is 16.

5. In Binary substraction , 0-1 equals _____

B. **Answer the following**

1. Find out the decimal equivalent of the following binary numbers:

   (a) $(1101011)_2$ (b) $(111.01)_2$ (c) $(247.65)_8$ (d) $(A2B.D4)_{16}$

2. Briefly explain the octal number system.

3. Add the binary numbers 1011 and 101 in both decimal and binary forms.

4. Substract 0110111 from 1101110.

5. Multiply the binary numbers 1100 and 1010.