

NORTH-EX PUBLIC SCHOOL, JAIN NAGAR
SUMMER HOLIDAYS HOMEWORK, 2019-20
CLASS-IX

ENGLISH

1. Given below is the beginning of a story. Complete it in about 150-200 words.

"I hit a six and the ball flew over the wall. It was an old derelict building. As I went to get the ball, I saw Complete the story in about 150-200 words.
2. You have observed that many of your fellow students fall ill frequently, especially when the season changes. Write an article on 'How to stay Healthy' to be published in your school magazine. You are Anuj/Anuja. (100-150 words)
3. You have read about two musicians, Evelyn Glennie and Usthan Bismillah Khan. Do you think that they both worked hard? Where did they want to go?
Answer this question in two paragraphs, one on each of the two musicians.
4. Write the poem Wind in your notebook, in a beautiful manner. You can draw pictures to make your composition more beautiful.
5. Find out 70 difficult words from your supplementary Reader- Moments. Write them with meanings in your notebook.
6. Write a brief note on the writer Ruskin Bond. Read any of his works in your Summer Holidays to improve your reading skills.

MATHS

1. Represent $\sqrt{10}$ on the number line.
2. Evaluate by using suitable identities :-
(a) $(105)^3$ (b) 108×91 (c) $(93)^2$
3. Represent $3x+7 = 0$ on the graph as solution
(a) In one variable (b) in two variables
4. Factorise – (a) $3x^2 + 4x - 4$ (b) $8x^2 + 14x + 3$
5. Locate the following points on the Cartesian plane and write their quadrants also.
 $(-6, 5)$, $(0, 8)$, $(-9, 0)$, $(-4, -5)$, $(3, -2)$, $(-5, -1)$
6. Make a list of algebraic identities on A4 size sheet.
7. Represent the types of numbers with examples on A4 size sheet (project)
8. Lab activity book - Project 1 page no. 3-4 and project 4 and 5 page no. 10-15.

NOTE -Revise chapter 1 to 4, do given sums in test register and project work in practical file.

SCIENCE

1. Why do plant cells possess largely sized vacuole?
2. Why do we stain cells while observing under a microscope? List commonly used stains.
3. Are there any exceptions to cell theory proposed by Schleiden and Schwann and Virchow? If yes, what are those?
4. Why is AIDS considered to be a 'Syndrome' and not a disease?
5. Becoming exposed to or infected with an infectious microbe does not necessarily mean developing noticeable disease. Explain.
6. A bus starting from rest moves with a uniform acceleration of 0.1 ms^{-2} for two minutes. Find the following quantities
(a) speed acquired, and
(b) distance travelled.
7. (a) With the help of a graph, derive the relation $v^2 - u^2 = 2as$.

- (b) A motorcyclist drives from A to B with a uniform speed of 30kmh^{-1} and return back with a speed of 20kmh^{-1} . Find its average speed.
8. A car accelerates from 6ms^{-1} to 16ms^{-1} in 10 sec. Calculate
 - (a) the acceleration and
 - (b) the distance covered by the car in that time
 9. (a) Differentiate between uniform linear and uniform circular motion.
 (b) Write any four examples of uniform circular motion.
 (c) Is uniform circular motion accelerated motion?
 10. Velocity-time graph for the motion of an object in a straight path is a straight line parallel to the time axis.
 - (a) Identify the nature of motion of the body.
 - (b) Find the acceleration of the body.
 - (c) Draw the shape of distance-time graph for this type of motion.
 11. Prepare a model on structure of an atom.
 12. Prepare a working model on Plant Cell or Animal Cell or Mitochondria or Chloroplast according to your roll numbers.

SST

1. How the system of estates in French society was organized before 1789?
2. Discuss the longitudinal divisions of Himalayas of the region from west to east.
3. Why do we accept the constitution?
4. What is the aim of production? Describe its requirements?
5. Maintain a project on disaster management in project file.

Sequence of pages are as follows:

- a. Acknowledgment
- b. Index
- c. Define disaster and Types of disaster
- d. Cause of drought
- e. Extent of damage to agriculture
- f. who is responsible
- g. steps taken by the govt. to combat drought
- h. organization working to help the farmer
- i. lesson learnt
- j. Do's and don'ts for next time to avoid disaster
- k. bibliography (sources of information)
- l. conclusion

Note: maps, pictures, graph must be used in the project

A4 size must be used for making project

IT

1. Prepare a chart on anyone of the following topics:
 - (a) Different types of computers
 - (b) Features of a computer
 - (c) Input Devices and Output devices
 Use your creativity to beautify the chart.
2. Prepare a project report on the topic : Different types of software. Submit a printed copy of the same.
3. Revise the syllabus covered for the upcoming periodic test.

कला - नवमी
विषय - हिन्दी

1. पाठ 'शिवसू' के आधार पर स्पष्ट कीजिए कि यक्ष-
घण्टियों के प्रति हमारा ज्ञानहर किम खबर का होना
चाहिए? क्या वे हमारी तरह दुख-दर्द महसूस करते हैं?
2. क्या सभी को दुख मनाने का अधिकार है? पाठ
'दुख का अधिकार' के आधार पर स्पष्ट कीजिए।
3. अपने छोटे भाई को समझ का महत्व समझाते हुए
एक पत्र लिखिए।
4. जपड़ों के शौरुम के लिए एक आन्तरिक विज्ञापन तैयार
कीजिए।
5. अनुशासन का महत्व समझाते हुए माँ व पुत्र के
बीच संवाद लिखिए।