

NOIDA PUBLIC SCHOOL
WINTER VACATION ASIGNMENT

Session: 2023- 24

CLASS - IX

Dear Students, Winter Vacation is round the corner, Hurray!! Have you started listing all exciting things you will do? Why not have fun with a little bit of learning along the way? So, here's a list of some enjoyable learning activities you can do at the noon time. Do them neatly and submit them after the vacations. Here are the ways by which you can make your holidays fun and learning at the same time:

- Go for a walk, talk about things you see around. Speak in English as much as possible.
- Help parents in small household chores like dusting, cleaning and watering the plants.

NOTE: Do all the Assignment in a neat and legible handwriting in the Homework notebook.

ENGLISH

Descriptive paragraph

1.- Describe your school principal. You may take help of the cues –

Disciplinarian – strict – kind hearted – hard working – guides students in matters of career decisions – organizes cultural events – promotes participation in debates and quizzes

2. You are grateful to God for caring mother that you have. Describe your mother and her affection towards you.

HINDI

1 सर्दियों में बढ़ने वाले प्रदूषण के कारणों और समाधानों को चित्रों सहित दर्शा कर लिखे।

2 श्री कृष्ण और सुदामा की मित्रता को चित्रों सहित दिखाकर एक 100 शब्दों में कहानी लिखें।

MATHEMATICS

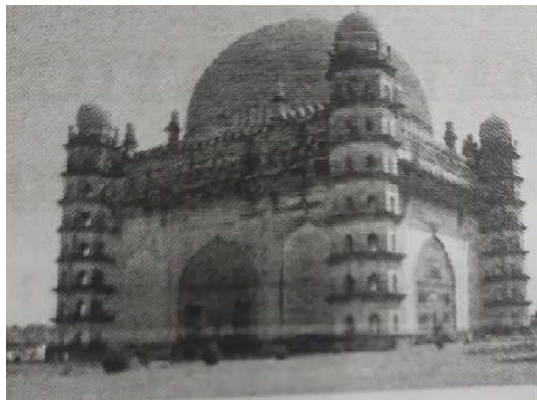
Q.1:- Following table shows a frequency distribution for the speed of cars passing through at a particular spot on a Highway :

Speed (in km/h)	30-40	40-50	50-60	60-70	70-80	80-90	90-100
Frequency	3	6	25	65	50	28	14

Draw a histogram and frequency polygon representing the above data.

Q.2:- Nikita has to make her project on "Monument in India". She decided to make her project on Gol Gumbaz monument. She already knows following things about it:

- It is located in a small town in Northern Karnataka.
- It reaches up to 51 metres in height while the giant dome has an external diameter of 44 metres, making it one of the largest domes ever built.
- At each of the four corners of the cube is a dome shaped octagonal tower seven stories high with a staircase inside.



Help her in making project by answering the following questions:

(i) Which mathematical concept is be used here?

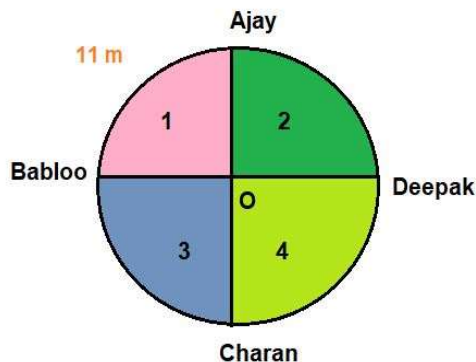
(ii) What is the curved surface area of the hemispherical dome?

(iii) What is the circumference of the base of the dome?

(iv) Find the cost of painting the dome, given the cost of painting is Rs.100 per cm²?

Q.3:- Read the Source/Text given below and answer any four questions:

Four students of class IX B with names Ajay, Babloo, Charan and Deepak are playing a game in a circular playground. All four students are holding radios with speaker and mic. These radios are connected by a wire of equal length that is 11 m (for each radio). Ajay Asks a question to Babloo. If Babloo gives the correct answer he gets 10 points and asks a new question to Charan, If he cannot answer then he passes the same question to Charan and gets no points. These conditions apply to all four players. After 10 rounds who gets maximum points, he becomes the winner.



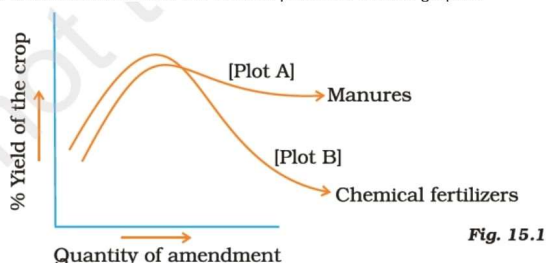
- (i) What is the radius of the field?
 (a) 7 m (b) 14 m (c) 11 m (d) 22 m
- (ii) What is the area of the field?
 (a) 70 m² (b) 154 m² (c) 110 m² (d) 220 m²
- (iii) What is the area of the part marked with 1 on the field?
 (a) 50 m² (b) 154 m² (c) 76 m² (d) 38.5 m²
- (iv) What is the circumference of the field?
 (a) 22 m (b) 14 m (c) 44 m (d) 28 m
- (v) What is the direct distance from Ajay to Charan?
 (a) 7 m (b) 28 m (c) 15 m (d) 14 m

SCIENCE

1. Given graph is for
 (a) uniform motion (b) uniform accelerated (c) rest (d) not possible
2. SI unit of force is
 (a) kg × meter. (b) Newton. (c) Newton/ meter (d) Horse power
3. Mass × velocity of a moving body is called
 (a) force. (b) power. (c) momentum. (d) Impulse
4. A sound wave of wave length 0.02 m and having velocity of 330 m/s. find its (i) frequency (ii) time period ?
5. If value of acceleration due to gravity on surface of earth is (g), then what will be its value on Moon?
6. Define kinetic energy and potential energy with 3 examples each
7. Write down one example each of Newton's law of inertia and law of action and reaction ?
8. A force F produces an acceleration of 5m/s² in a body of mass 100 kg. How much acceleration the same force will provide if another body of mass 150 kg is tied with first body?
9. A man can lift a body of mass 50 kg up to a height of 10 m in 5 second. calculate his power?
10. How will the force of gravitation between two bodies will change if (i) mass of both bodies are doubled (ii) if distance between them is reduced to half?

- Q1. Draw the electronic distribution diagram for the first 10 elements.
 Q2. Prepare a chart or model on any one atomic model- Thomson, Rutherford or Bohr.

(ii) What is the reason for the different pattern of the two graphs?



1. The project of improvement in food resources?

2. Figure shows the two crop fields [Plots A and B] have been treated by manures and chemical fertilizers respectively, keeping other environmental factors same. Observe the graph and answer the following questions.

(i) Why does plot B show sudden increase and then gradual decrease in yield?

(ii) Why is the highest peak in plot A graph slightly delayed

(iii) What is the reason for the different pattern of the two graphs?

3. What is a GM crop? Name any one such crop which is grown in India

SOCIAL SCIENCE

TOPIC OF THE PROJECT –

I) DROUGHT IN MAHARASHTRA 2016

II) Cyclone Ockhi 2017

III) Smog in Delhi 2017

IV) Imphal Earthquake 2016

GUIDELINES FOR SUBMITTING THE PROJECT

1. Use A4 size sheets

2. It should be a hand written project (blue or black pen should be used)

3. You can use newspaper clippings, maps, diagrams and material from the web

4. Each illustration should be supported with a write up/relevance to the topic

5. The cover page should be written in bold letters with the topic, name and roll number

Follow the sequence of pages as given below:

(a.) Acknowledgement

(b.) Index c. Define disaster and its types

(d.) Causes (illustrations)*

(e.) Extent of damage (illustrations)*

(f.) Who is responsible (illustrations)*

(g.) Steps taken by the Govt. to combat (illustrations)*

(h.) Organisations working to help (illustrations)*

(i.) Lessons learnt (illustrations)*

(j.) Dos and don'ts for next time to avoid such disasters

(k.) Bibliography *Maps, pictures, graphs, etc

6. Use hard bound cover file or get your project spiral bound.

II. Learn the chapters given as Syllabus of Post Midterm Test 2023-24

III. Geography

1. Map Task-

(a.) Meteorological Stations (pg. 41)

(b.) Natural vegetation (pg. 45)

(c.) Wildlife (pg. 49)

(d.) Density of population (pg. 55)

(2). Compare the 4 seasons of India

(3). Write note on medicinal plants

INFORMATION TECHNOLOGY

Q1. Prepare the Presentation as per the given following topics:

1. ICT Tools

2. Types of Business

3. Types of Software

Please prepare 10 slides with animation effect.

Please take printout after prepared presentation and attached in notebook.

Q2. Explain any five types of Charts in MS Excel with diagram in the Notebook.

COUNSILING

Paste the picture by explaining which things motivate you in your life

Paste the picture by explaining what creates problems in your life while making decisions in your life