

CLASS	SUBJECT	TOPIC / CHAPTER	MODULE / ASSIGNMENT	REFERENCE LINKS
X	HINDI	भेड़े और भेड़िए	<p>भेड़े और भेड़िए - हरिशंकर प्रसाद            "एक बार एक वन के पशुओं को ऐसा लगा कि वे सभ्यता के उस स्तर पर पहुँच गए हैं, जहाँ उन्हें एक अच्छी शासन व्यवस्था अपनानी चाहिए।"</p> <p>प्रश्न 1. वन - प्रदेश के पशुओं ने एक मत से क्या तय किया और क्यों?            प्रश्न 2. पशु समाज में किस कारण हर्ष की लहर दौड़ गई या पशु समाज की खुशी का क्या कारण था?            प्रश्न 3. वन प्रदेश की भेड़ें कैसी थी? चुनाव समीप आने पर उनका उल्लास क्यों बढ़ता जा रहा था?            प्रश्न 4. भेड़ियों को अपना संकटकाल आता हुआ क्यों नजर आ रहा था?            प्रश्न 5. हर भेड़िए के आस-पास कौन रहते हैं और क्यों? समझाकर लिखें।            प्रश्न 6. बूढ़े सियार ने किसका रूप बदला और कैसे? उन्हें किन तीन बातों को ख्याल रखने को कहा?            प्रश्न 7. बूढ़ा सियार रँगे सियार को लेकर किसके पास आया तथा उनका परिचय किस प्रकार दिया?            प्रश्न 8. भेड़िए ने किसे अपना गुरु माना और क्यों?            प्रश्न 9. नीले रंग के सियार ने भेड़िए ने नेता चुनने के लिए भेड़ों के सामने क्या तर्क प्रस्तुत किया?            प्रश्न 10. भेड़े और भेड़िए कैसी कहानी है? भेड़े और भेड़िए, बूढ़ा सियार और रंगा सियार किसका प्रतीक है?</p>	<p><a href="https://www.youtube.com/watch?v=YwG_e-taHwM">https://www.youtube.com/watch?v=YwG_e-taHwM</a></p> <p><a href="https://www.youtube.com/watch?v=0WCQ7sYPLC8">https://www.youtube.com/watch?v=0WCQ7sYPLC8</a></p>
	PHYSICS	<p>Ch – 4 :  <b>Refraction of light at plane surface</b>  <b>Topics:</b>            *Simple application of refraction of light            *Critical angle            *Total internal reflection            *To deviate a ray through 90°, 180°</p>	<p>Q1. What is total internal reflection?            Q2. State two conditions necessary for total internal reflection to occur.            Q3. Name two factors which affect the critical angle for a given pair of media. State how do the factors affect it.            Q4. Draw diagrams to illustrate critical angle and total internal reflection.            Q5. Show with the help of a diagram how a total reflecting prism can be used to turn a ray of light through 90°. Name one instrument in which such a prism is used.            Q6. Draw a neat labelled ray diagram to show the total internal reflection of a ray of light normally incident on one face of a 30°, 90°, 60° prism.</p>	<p><a href="https://youtu.be/eW8ESIMUayQ">https://youtu.be/eW8ESIMUayQ</a></p>

<b>HISTORY CIVICS</b>	<b>Ch -11 : The First World War</b>	Pg 225..Exercises: Ques.No.1,5,6,8,9,11,14,18,20,28,29,30,31 Structured Question:5  Extra Questions: 1.Mention any two terms of the Treaty of Versailles signed on 28th June,1919. 2.Mention any two important consequences of the First World War. 3.State two factors that were responsible for the failure of the League of Nations. 4.Explain briefly the causes of World War I with reference to nationalism and imperialism.	<a href="https://youtu.be/SLj5r2nZHB8">https://youtu.be/SLj5r2nZHB8</a>
<b>ENVIRON MENTAL APPLICA TION</b>	<b>Caring For Air</b>	1. What are the natural causes of air pollution? 2. What are the man made causes of air pollution? 3. Name 5 common air pollutants. 4. Explain the working of the following devices used to control air pollution. a) Gravitational Settling Chamber b) Cyclone Separators c) Fabric Filters (Baghouse Filters) d) Electrostatic Precipitators e) Wet Collectors (Scrubbers) f) Fluidized Bed Boiler (FBB)  5. Give the penalties given to the people for causing air pollution. 6. What are the Major Powers and functions of Central Board in controlling air pollution? 7. Explain bubble concept theory in controlling of air pollution.	<a href="https://youtu.be/Tds3k97aAzo">https://youtu.be/Tds3k97aAzo</a>  <a href="https://youtu.be/pnAfw9DGN98">https://youtu.be/pnAfw9DGN98</a>
<b>COMPUT ER APPLICA TION</b>	<b>Arrays  1<sup>st</sup> July-4<sup>th</sup> July 2020</b>	Q1. What do you understand by Arrays? How you declare an Array? Q2. What are the different types of arrays? Q3. Why we use Arrays? or What are the Advantages of using Arrays. Q4.How can arrays be initialized?	

Q5. What do you understand by out-of-bound subscripts?

Q6. What do you mean by Binary Search?

Q7. Differentiate between linear search and binary search techniques?

Q8. State the conditions under which Binary Search is applicable?

Q9. What do you mean by sorting?

Q10. What is Selection sort?

Q11. What is Bubble sort?

Q12. Which element is num[9] of the array num?

Q13. What is the default value of Array for different data types?

Q14. What are the advantages of Array ?

Q15. What are the disadvantages of Array?

Q16. Which is legal int[] arr or int arr[] ?

Q17. What will happen if you do not initialize an Array?

**Answers:**

Q1. What do you understand by Arrays? How you declare an Array?

Ans: An Array is a collection of variables of the same data type that are referenced by a common name. Array can be declared by the following statements:

```
int n[]=new int[10];
```

Q2. What are the different types of arrays?

(i) Single Dimensional Arrays: A list of items can be given one variable name using only one subscript and such a variable is called a single subscripted variable or a one or single dimensional array.

(ii) Multi Dimensional Arrays: This type of arrays are actually arrays of arrays.

Q3. Why we use Arrays? or What are the Advantages of using Arrays.

Ans: The Advantages or Arrays are: (i) Easy to Specify. (ii) Free from run-time overload.

(iii) Random access of elements. (iv) Fast Sequential Access.

Q4.How can arrays be initialized?

Ans: Array can be initialized at the time of declaration by providing the value list at the same time.

```
Ex. int a[]={2,3,4,5,8,7,67,90};  
    char ch[]={ 'a','l','k','j','h'};
```

Q5. What do you understand by out-of-bound subscripts?

Ans: The subscripts other than 0 to n-1 for an array having n elements are called out-of-bounds subscripts.

Q6. What do you mean by Binary Search?

Ans: This search technique searches the given ITEM in minimum possible compression. The Binary search requires the array must be sorted in any order. The search ITEM is compared with middle element of the array. If the ITEM is more then the middle element later part of the arrays becomes the new array segment. The same process is repeated until either the ITEM is found or the array segment is reduce to single element.

Q7. Differentiate between linear search and binary search techniques?

Ans: In linear search each elements of the array is compared with the given item to be searched for one by one while binary search searches for the given item in a sorted array. The search segment reduces to half at every successive stage.

Q8. State the conditions under which Binary Search is applicable?

Ans: For Binary Search The List must be sorted, lower bound upper bound and the sort order of the list must be known.

Q9. What do you mean by sorting?

Ans: Sorting of an array means arranging the array elements in a specified order.

Q10.What is Selection sort?

Ans: In selection sort the smallest ( or largest depending upon the desired order) key from the remaining unsorted array is searched for and put in the sorted array. The process repeats until the entire array is sorted.

Q11.What is Bubble sort?

Ans: In bubble sort the adjoining values are compared and exchanged if they are not in proper order. This process is repeated until the entire array is sorted.

Q12. Which element is num[9] of the array num?

Ans: 10th element. Because the first index number/subscript value of an array is 0. So 9th element is treated as the 10th element in an array.

Q13 What is the default value of Array for different data types?

Ans:

Data Type	Default value
byte, short, int, long	0
float, double	0.0
boolean	false
Any object	null

Q14 What are the advantages of Array ?

- We can sort multiple elements of Array at the same time.
- Using index, we can access the element of the Array in many time.
- We can handle at a time many elements

Q15. What are the disadvantages of Array?

Ans:

- To create an Array, contiguous memory is required. It is possible in JVM that the memory is available to accommodate Array but memory available is not contiguous.
- The Array is static data structure. It is of fixed size. We can not increase or decrease the size of the Array after creation.

Q16. Which is legal int[] arr or int arr[] ?

Ans:Both are legal statements. It is preferred to write int[] arr instead of int arr[].

Q17. What will happen if you do not initialize an Array?

Ans:Array will take default value depending upon the data type.

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