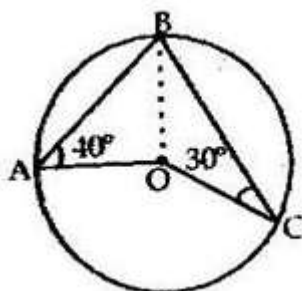


**WORKSHEET-51**  
**SUBJECT – MATHEMATICS**  
**CLASS – IX**  
**CHAPTER-10**  
**(CIRCLES)**  
**SESSION - (2020-21)**

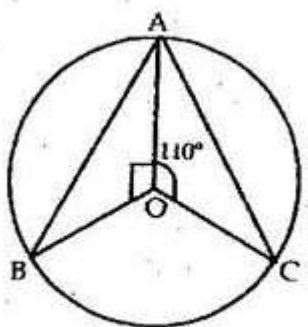
**Instructions to be followed: -**

- 1: -From now onwards students do your worksheets in your particular subject notebook respectively. Don't use rough sheets, old copies or anything else. All the stationary shops have already opened. So, you can purchase it.**
  - 2: - All the students must complete their worksheets as Periodic test marks will be given to those who completes it else you will have to go through pen paper test after the school reopens.**
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  - 5: - If you have any query related to worksheet, ask your queries in WhatsApp group between 8:00 am to 3:00 pm.**
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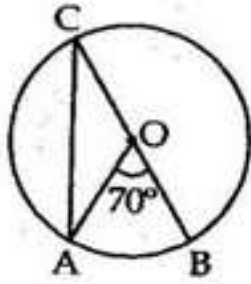
- 1.) In below figure, O is the centre of the circle. If angle  $OAB = 40^\circ$  and angle  $OCB = 30^\circ$ , find angle AOC.



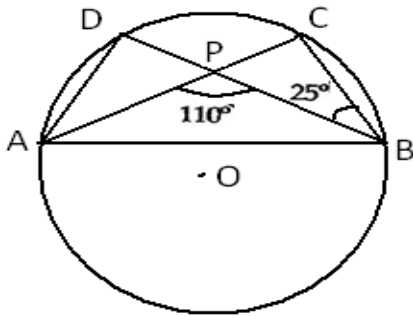
- 2.) In below figure, A, B and C are three points on the circle with centre O such that angle  $AOB = 90^\circ$  and  $AOC = 110^\circ$ . Find angle BAC.



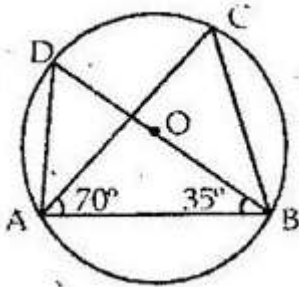
- 3.) In the below figure, O is the centre of the circle and angle  $AOB = 70^\circ$ . Calculate the value of (i) angle OCA, (ii) angle OAC.



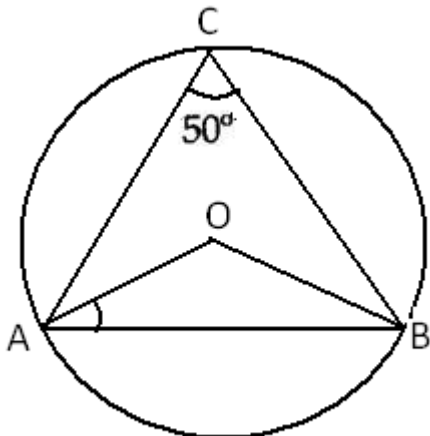
- 4.) In the below figure, O is the centre of the circle .If angle  $PBC = 25^\circ$  and angle  $APB = 110^\circ$ , find the value of angle  $ADB$ .



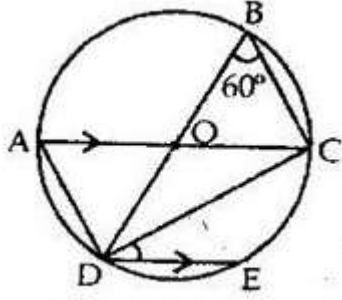
- 5.) In the below figure, O is the centre of the circle. If angle  $ABD = 35^\circ$  and  $BAC = 70^\circ$ . Find angle  $ACB$ .



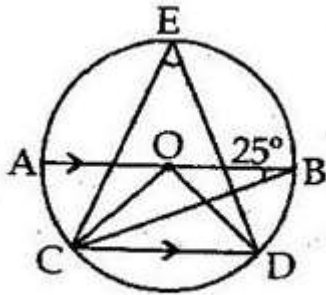
- 6.) In the below figure, O is the centre of the circle .If angle  $ACB = 50^\circ$ , find angle  $OAB$ .



- 7.) In the below figure, DE is a chord parallel to diameter AC of the circle with centre O. If angle  $CBD = 60^\circ$ , calculate angle CDE.



- 8.) In the below figure, O is the centre of the circle. Chord CD is parallel to diameter AB. If angle  $ABC = 25^\circ$ , calculate angle CED.



For Solutions: <https://www.topperlearning.com/r-s-aggarwal-and-v-aggarwal-solutions/cbse-class-9-mathematics/r-s-aggarwal-and-v-aggarwal-mathematics-ix/circles>

**HARI VIDYA BHAWAN**  
**SUBJECT- SOCIAL SCIENCE**  
**CLASS – IX**  
**SESSION – 2020 – 21**  
**WORK SHEET - 51**

**Date –27-11-2020**

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**General Instructions: -**

- From now onwards students do your worksheet in your particular subject notebook respectively.
  - Don't use rough sheets, old copies or anything else. All the stationary shops have already. So, you can purchase it.
  - All the student must complete their worksheets as Periodic test marks will be given to those who completes it else you will have to go through pen paper test after the school reopens.
  - Read each and every topic (which will be given in worksheets) of the chapters from NCERT books.
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  - If you have any query related to worksheet, ask your queries in WhatsApp group between 8:00 am to 3:00 pm.
- 

Chapter 3: Constitutional Design

Very Short answer Questions:

1. What is known as the supreme law of the country?
2. What does 'apartheid' mean?
3. Which group of people in South Africa were classified as coloured?
4. What is a constitution?
5. Who firstly drafted the constitution for India?
6. What is constitutional amendments?

## हरि विद्या भवन विषय हिंदी

### सामान्य - निर्देश

- \* प्रस्तुत कार्य अपनी हिंदी व्याकरण की कार्यपुस्तिका में कीजिए।
- \* सभी विद्यार्थियों को परीक्षा हेतु यह कार्य करना अनिवार्य है।
- \* वर्कशीट में दिए गए पाठ को ध्यानपूर्वक पढ़िए।
- \* वर्कशीट से संबंधित समस्या पूछने के लिए आप अपने व्हाट्सएप ग्रुप में सुबह 8:00 बजे से दोपहर 3:00 बजे तक पूछ सकते हैं।

हरि विद्या भवन  
कक्षा- दसवीं  
विषय-हिंदी  
वर्कशीट-54

तारीख-27.11.20

### अशुद्ध वाक्यों का शोधन

सामान्य निर्देश-दिया गया कार्य अपनी व्याकरण की कॉपी में करिए।

नोट. अशुद्ध भाषा को व्याकरण के नियमों के अनुसार शुद्ध किया जाता है उसे अशुद्धि शोधन कहते हैं।

प्रश्न: नीचे जो वाक्य दिए गए हैं वह अशुद्ध है और आप उन्हें शुद्ध कीजिए।

प्रश्न 1. वह पागल आदमी हो गया।

प्रश्न 2. मैंने फूल एक बहुत सुंदर देखा।

प्रश्न 3. मीरा पक्की कृष्ण भक्त थी।

प्रश्न 4. मुझे एक चाय का गर्म प्याला चाहिए।

प्रश्न 5. गाय का ताकतवर दूध होता है।

प्रश्न 6. खा लिया है हमने खाना।

प्रश्न 7. खरगोश को काटकर गाजर दो।

प्रश्न 8. लेख यह किसने लिखा है।

प्रश्न 9. दौड़ता है वह बच्चा।

प्रश्न 10. वह पागल हाथी हो गया।

# HARI VIDYA BHAWAN

## Worksheet-54

### Class-X

### Subject-Science

### Session-2020-21

## Ch-5: Periodic classification of elements (Practice Questions)

**Date: 27/11/2020**

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### Instructions to be followed :-

- 1:- From now onwards students do your worksheet in your particular subject notebook respectively. Don't use rough sheets, old copies or anything else. All the stationary shops have already opened. So, you can purchase it.
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  4. All the students must purchase NCERT books as it will help you to understand the chapter.
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- 

### Multiple Choice Question:-

Q.1 On moving from left to right in a period in the periodic table, the size of the atom

- (a) increases
- (b) decreases
- (c) does not change appreciably
- (d) first decreases and then increases.

Q.2 What is the atomic number of element of period 3 and group 17 of the Periodic Table?

- (a) 10
- (b) 4
- (c) 17
- (d) 21

Q.3 The arrangement of elements in the Modern Periodic Table is based on their

- (a) increasing atomic mass in the period
- (b) increasing atomic number in the horizontal rows
- (c) increasing atomic number in the vertical columns
- (d) increasing atomic mass in the group

Q.4 An element X has mass number 40 and contains 21 neutrons in its atom. To which group of the Periodic Table does it belong?

- (a) Group 1
- (b) Group 4
- (c) Group 2
- (d) Group 3

Q.5 Which of the following property will be common in group 1 elements?

- (a) Mass number
- (b) Number of protons in nucleus
- (c) Atomic number
- (d) Number of valence electrons

Q.6 \_\_\_\_\_ group contains the member of the halogen family.

- (a) 17th
- (b) 15th
- (c) 18th
- (d) 16th.

### **Short Answer Type Question: -**

Q.7 What happens to the valence electrons and valency as we move left to right in a period and top to bottom in a period

Q.8 Two elements X and Y have atomic number 11 and 16 respectively.

- (i) Write the electronic configuration of both.



(ii) Which type of bond will they form?

(iii) Write the formula of the compound formed by their combination (in terms of X and Y).

Q.9 The elements of the third period of the Periodic Table are given below:

<b>Group</b>	<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>	<b>V</b>	<b>VI</b>	<b>VII</b>
<b>Period 3</b>	<b>Na</b>	<b>Mg</b>	<b>Al</b>	<b>Si</b>	<b>P</b>	<b>S</b>	<b>Cl</b>

(a) Which atom is bigger, Na or Mg? Why?

(b) Identify the most (i) metallic and (ii) non-metallic element in Period 3.

Q. 10 State Modern Periodic Law. Name the two elements of first period.

**Note –**

- This worksheet is for your self assessment. To solve the above questions read all the notes of chapter 5 and try to answer them.
- All the practice worksheets have to be done in same notebook wherever you are writing notes.