

**PRACTICE WORKSHEET-60****SUBJECT – MATHEMATICS****CLASS – IX****CHAPTER-01****(Number System)****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.**

**3: - Read each and every topic (which will be given in worksheets) of the chapters from NCERT books.**

**4: - All the students must purchase NCERT books as it will help you to understand the chapter.**

**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. Find a rational number lying between  $\frac{3}{8}$  and  $\frac{2}{5}$

2. Rationalise the denominator of the following.

$$\frac{4}{\sqrt{11} - \sqrt{7}}$$

3. Find rational numbers a and b such that

$$\frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}} = a + b\sqrt{6}$$

4. Simplify by rationalising the denominator.

$$\frac{2\sqrt{6} - \sqrt{5}}{3\sqrt{5} - 2\sqrt{6}}$$

5. If  $x = 3 + 2\sqrt{2}$ , check whether  $x + 1/x$  is rational or irrational.

6. Add:

$$(2\sqrt{2} + 5\sqrt{3} - 7\sqrt{5}) \text{ and } (3\sqrt{3} - \sqrt{2} + \sqrt{5})$$

7. Express the following decimal in the form  $\frac{p}{q}$ , where p, q are integers and  $q \neq 0$ .

$$0.\overline{2}$$

8. Examine whether the following numbers are rational or irrational.

$$(i) 3 + \sqrt{3} \quad (ii) \sqrt{7} - 2 \quad (iii) \sqrt[3]{5} \times \sqrt[3]{25}$$



**HARI VIDYA BHAWAN**  
**SUBJECT- SOCIAL SCIENCE**  
**CLASS – IX**  
**SESSION – 2020 – 21**  
**WORKSHEET - 60**

**Date –12-01-2021**

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**General Instructions: -**

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**Chapter 1 : India- Size and Location**

**Very Short Question:**

1. Name the countries which are larger than India.
2. In which Hemisphere does India lie?
3. Name the parallel of latitude which divide India roughly into two equal parts?
4. Why 82°30 been selected as the standard meridian of India?
5. Which route connects countries of Europe in the west to the countries of Europe in the west to the countries of East Asia?

# हरि विद्या भवन

## विषय - हिंदी

### सामान्य निर्देश

- \* प्रस्तुत कार्य अपनी हिंदी साहित्य की पुस्तिका में कीजिए। किसी अन्य पुस्तिका में किया गया कार्य स्वीकार नहीं किया जायेगा।
- \* सभी विद्यार्थियों को परीक्षा हेतु यह कार्य करना अनिवार्य है।
- \* वर्कशीट में दिए गए पाठ और कविता को ध्यानपूर्वक पढ़ें।
- \* वर्कशीट से सम्बंधित समस्या पूछने के लिए आप अपने कक्षा ग्रुप पर सुबह 8 बजे से 3 बजे तक मैसेज कर सकते।

हरि विद्या भवन

कक्षा - दसवीं

विषय - हिंदी

वर्कशीट - 60

दिनांक :- 12|1|21

प्री-बोर्ड प्रश्न पत्र

पुनरावृत्ति कार्य

प्र01) प्रस्तुत प्रश्नों के उत्तर दीजिए।

(क) सआदत अली कौन था ? उसने वज़ीर अली की पैदाइश को अपनी मौत क्यों समझा ?

(ख) छोटे भाई ने अपनी पढ़ाई का टाइम-टेबिल बनाते समय क्या - क्या सोचा और फिर उसका पालन क्यों नहीं कर पाया ?

- (ग) मेखलाकार शब्द का अर्थ बताइए। कवि ने इस शब्द का प्रयोग यहाँ क्यों किया है ?
- (घ) कविता 'कर चले हम फ़िदा' का प्रतिपाद्य अपने शब्दों में लिखिए।
- (ङ) हेडमास्टर शर्मा जी ने पी टी साहब को क्यों मुअत्तल कर दिया ?
- (च) दस अक्टूबर सन पैंतालीस का दिन टोपी के जीवन में क्या महत्व रखता है ?

प्र02) निम्नलिखित वाक्यों का निर्देशानुसार परिवर्तन कीजिए।

(क) जो परिश्रम करता है उसकी पराजय नहीं होती।  
( सरल वाक्य )

(ख) लड़की बीमार थी इसलिए कुछ नहीं बोली।  
( मिश्र वाक्य )

(ग) जब उसने भाषण शुरू किया तो तालियों की गड़गड़ाहट से उसका स्वागत हुआ।  
( संयुक्त वाक्य )

प्र03) निम्निलिखित वाक्यों को शुद्ध रूप में लिखिए।

(क) राष्ट्रपिता का देश सदा आभारी रहेगा।

(ख) गाय को मिलाकर सानी खिलाओ।

प्र04) निम्निलिखित समस्त पदों का समास - विग्रह करके समास का नाम लिखिए।

(क) त्रिलोचन

(ख) महावीर

प्र05) आपके नाम से प्रेषित एक हज़ार रूपये के मनीऑर्डर की प्राप्ति न होने की शिकायत पत्र अधीक्षक ,पोस्ट ऑफिस को लिखिए।

प्र06) विद्यालय में छुट्टी के दिनों में भी प्रातः काल में योग की अभ्यास कक्षाएँ चलने की सूचना देते हुए इच्छुक

विद्यार्थियों द्वारा अपना नाम देने हेतु सूचना - पट्ट के लिए  
एक सूचना लगभग 30 शब्दों में लिखिए।

प्र07) अनुच्छेद

पुस्तकें पढ़ने की आदत

(संकेत - बिंदु )

- पढ़ने की घटती प्रवृत्ति
- कारण और हानि
- पढ़ने की आदत से लाभ



# HARI VIDYA BHAWAN

## Worksheet-60

### Class-X

### Subject-Science

### Session-2020-21

### (Practice Questions)

**Date: 12/01/2021**

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

- Q.1 Give one use of bleaching powder.
- Q.2 Which phenomenon is responsible for increasing the apparent length of the day by 4 min?
- Q.3 How many joules are there in 1 kWh?
- Q.4 Name the components which you will observe when you focus the stomata slide under high power objective of a microscope.
- Q.5 Why are magnetic field lines closed curves?
- Q.6 Why does the size of the atom increase down the group?

Q.7 Distinguish between pollination and fertilization. Mention the site and product fertilization in a flower.

Q.8 Why does high temperature inhibit photosynthetic action?

**Long Answer Type Question:**

Q. 9 (i) Draw the magnetic field lines through and around a single loop of wire carrying electric current .

(ii) State whether an alpha particle will experience any force in a magnetic field :

- a. It is placed in the field at rest.
- b. It moves in the magnetic field parallel to field lines.
- c. It moves in the magnetic field perpendicular to field lines

Justify your answer in each case.

Q.10 (i) Define optical centre of spherical lens.

(ii) A divergent lens has a focal length of 20 cm. At what distance should an object of height 4 cm from the optical centre of the lens be placed ,so that its image is formed 10 cm away from the lense .Find the size of the image also.

**Note –**

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