

WORKSHEET-42**SUBJECT – MATHEMATICS****CLASS – IX****CHAPTER-13****(SURFACE AREAS AND VOLUMES)****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.
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INTRODUCTION**Volume of a Right Circular Cone**

$$\text{Volume of a Cone} = \frac{1}{3} \pi r^2 h$$

- 1.) The height of a cone is 15 cm. If its volume is 1570 cm^3 , find the radius of the base.
(Use $\pi = 3.14$)

Watch video: <https://youtu.be/ECH3MS7LJYw>

- 2.) A right triangle ABC with sides 5 cm, 12 cm and 13 cm is revolved about the side 12 cm. Find the volume of the solid so obtained?

Watch video: <https://youtu.be/HcPujK9aGCY>

- 3.) A heap of wheat is in the form of a cone whose diameter is 10.5 m and height is 3 m. Find its volume. The heap is to be covered by canvas to protect it from rain. Find the area of the canvas required.

Watch video: <https://youtu.be/IK79wxCIDfo>**Volume of a Sphere and Hemisphere**

$$\text{Volume of a Sphere} = \frac{4}{3} \pi r^3$$

$$\text{Volume of a Hemisphere} = \frac{2}{3} \pi r^3$$

- 4.) The diameter of the moon is approximately one-fourth of the diameter of the earth. What fraction of the volume of the earth is the volume of the moon?

Watch video: <https://youtu.be/r6YfkYoLRMM>

- 5.) Twenty seven solid iron spheres, each of radius r and surface area S are melted to form a sphere with surface area S' . Find the (i) radius r' of the new sphere, (ii) ratio of S and S' .

Watch video: <https://youtu.be/i-IGh6RrkXs>

- 6.) A capsule of medicine is in the shape of a sphere of diameter 3.5 mm. How much medicine (in mm^3) is needed to fill this capsule?

Watch video: <https://youtu.be/4jbgsryrOPA>

HARI VIDYA BHAWAN
SUBJECT- SOCIAL SCIENCE
CLASS – IX
SESSION – 2020 – 21
WORK SHEET - 42

Date – 16-10-2020

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Chapter-3 Nazism and the Rise of Hitler

Practice Questions

Short Answers Questions

1. What was the name given to mass killings of the Jews under Hitler's regime?
2. Name the incident that started the Second World War.
3. Name the city where US dropped the first Atom bomb in Japan.
4. Which party came to be known as the Nazi party?
5. Name the countries against which Germany fought the First World War.

6. What is the German Parliament known as?
7. Quote the slogan under which Hitler integrated Austria and Germany in 1938?

हरि विद्या भवन

विषय- हिंदी

सामान्य निर्देश

1. सभी विद्यार्थियों को इकाई परीक्षा के लिए प्रस्तुत कार्य को पूर्ण करना अनिवार्य है।
2. वर्कशीट में दिए गए कार्य को ध्यानपूर्वक पढ़ें उसे अपनी कार्य पुस्तिका में करें।
3. सभी विद्यार्थियों को पाठ को पढ़ने और समझने के लिए किताब की आवश्यकता पड़ेगी अतः सभी विद्यार्थियों को किताब लेना अनिवार्य है।
4. वर्कशीट से संबंधित समस्या पूछने के लिए आप अपनी कक्षा ग्रुप में सुबह 8:00 से दोपहर 3:00 बजे तक मैसेज कर सकते हैं।

हरि विद्या भवन
विषय - हिंदी
कक्षा - दसवीं
वर्कशीट :- 45

तारीख-16-10-20

अनुच्छेद

सामान्य निर्देश

★ नीचे दिया गया कार्य अपनी व्याकरण की कॉपी में करिए।

संसाधनों का दुरुपयोग

◆ संकेत - बिंदु :- प्राकृतिक संसाधन का अर्थ व प्रकार, प्राकृतिक संसाधन सीमित, इनके दुरुपयोग से हानि।

प्रकृति मानव की सहचरी ही नहीं, मनुष्य की सहायिका भी है। प्रकृति के बिना मनुष्य के जीवन की कल्पना भी नहीं की जा सकती। प्रकृति ने भूतल पर तथा भूमि के नीचे अनेक प्रकार की वस्तुओं से मानव को उपकृत किया है। प्रकृति का कण-कण मानव की सेवा में सलंगन है। वृक्ष, पर्वत, नदियां, झरने, झीलें, समुंद्र, वनस्पतियाँ तथा पृथ्वी के गर्भ में छिपी अनेक बहुमूल्य धातुएँ मानव के लिए अत्यधिक आवश्यक है। मानव इन प्राकृतिक संसाधनों का जितनी कुशलता से उपयोग करेगा उतना ही लाभान्वित होगा। दुर्भाग्य का विषय है कि मनुष्य इन प्राकृतिक संसाधनों में से कुछ का दुरुपयोग कर रहा है। मानव के लिए अति उपयोगी वनों की अंधाधुंध कटाई की जा रही है, पर्वतों को काट-काट कर मार्ग बनाए जा रहे हैं तथा प्रकृति के नैसर्गिक स्वरूप को विकृत किया जा रहा है। प्राकृतिक संसाधनों के दुरुपयोग के कारण पर्यावरण प्रदूषण, जलवायु एवं वर्षा का असंतुलन तथा अन्य प्राकृतिक आपदाएँ समय-समय पर आकर जान-माल की क्षति का कारण बनती हैं। आज भूस्खलन, रेगिस्तान का प्रसार, भूमि की उपजाऊ शक्ति में हास आदि की गंभीर समस्याएँ उत्पन्न हो गई है। जिनका कारण भी प्रकृति के संसाधनों का दुरुपयोग ही है। मनुष्य का कर्तव्य है कि वह प्रकृति के साथ छेड़-छाड़ बंद कर दें तथा प्राकृतिक संसाधनों का सदुपयोग करें।

नीचे दिए गए अनुच्छेदों को आप स्वयं करेंगे।

प्रश्न 1. विज्ञान के लाभ

संकेत बिंदु :- विकास में विज्ञान का योगदान, वैज्ञानिक आविष्कारों के लाभ और हानियाँ, विज्ञान का संतुलित प्रयोग।

प्रश्न 2. आधुनिक नारी

संकेत बिंदु :- आधुनिक युग में नारी का स्थान, 21वीं सदी की नारी, आज के समाज में नारी की भूमिका।

ऊपर दिया गया कार्य अपनी व्याकरण की किताब का पेज नंबर 195 की सहायता से कीजिए।

HARI VIDYA BHAWAN

Worksheet-45

Class-X

Subject-Science

Session-2020-21

Ch-8: How do organisms reproduce (Practice Questions)

Date: 16/10/2020

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Multiple Choice Question:-

- Q.1 The period of pregnancy is called
- (a) gestation period
 - (b) incubation period
 - (c) ovulation
 - (d) menstruation period
- Q.2 Which among the following diseases is not sexually transmitted?
- (a) Syphyllis
 - (b) Hepatitis

- (c) HIV-AIDS
- (d) Gonorrhoea

Q.3 Which of the following is not a part of the male reproductive system?

- (a) Vas deferens
- (b) Seminal vesicle
- (c) Oviduct
- (d) Testis

Q.4 Along the path of the vas-deferens the secretions of which gland provide nutrition to the sperms?

- (a) Prostate glands
- (b) Seminal vesicles
- (c) Scrotum
- (d) Urinary bladder

Q. 5 Offspring formed as a result of sexual reproduction exhibit more variations because

- (a) sexual reproduction is a lengthy process
- (b) genetic material comes from two parents of the same species
- (c) genetic material comes from two parents of different species
- (d) genetic material comes from many parents

Very Short Answer Type Question: -

Q. 6 Write the expanded form of AIDS.

Q. 7 Why are pair of testes located outside the male body?

Q. 8 Why does the lining of uterus becomes thick and spongy during every month?

Short Answer Type Question: -

Q.9 What happens when egg is not fertilized?

Q.10 What are the basic principles of contraception? Explain principles with four methods or example of device used

Long Answer Type Question: -

Q.11 Mention the role of the following organs of human reproductive system:

- (a) Vas deferens
- (b) Testis
- (c) Ovaries
- (d) Oviduct
- (e) Prostate gland

Q. 12 (a) What is placenta? Mention its role during pregnancy.

- (b) Draw a labelled diagram of female reproductive system.

Note –

- This worksheet is for your self assessment. To solve the above questions read all the notes of chapter 8 and try to answer them.
- All the practice worksheets have to be done in same notebook wherever you are writing notes.