

PRACTICE WORKSHEET-37

REVISION

SUBJECT – MATHEMATICS

CLASS – IX

CHAPTER-6 and 7

(Lines and Angles) and (Triangles)

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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- 1.) In Fig. 6.14, lines XY and MN intersect at O. If $\angle POY = 90^\circ$ and $a : b = 2 : 3$, find c.

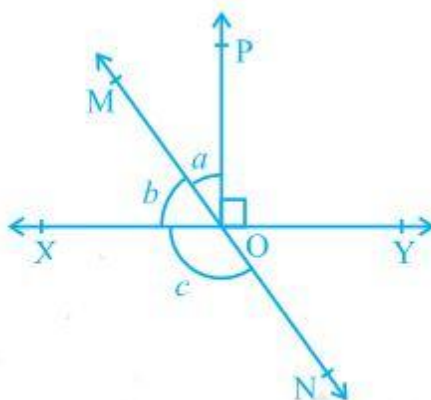


Fig. 6.14

- 2.) In Fig. 6.15, $\angle PQR = \angle PRQ$, then prove that $\angle PQS = \angle PRT$.

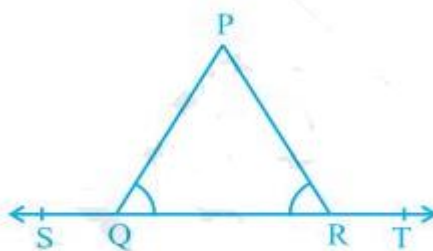


Fig. 6.15

- 3.) In Fig. 6.17, POQ is a line. Ray OR is perpendicular to line PQ. OS is another ray lying between rays OP and OR. Prove that $\angle ROS = \frac{1}{2}(\angle QOS - \angle POS)$.

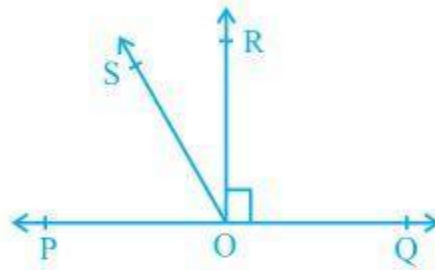


Fig. 6.17

- 4.) In Fig. 6.29, if $AB \parallel CD$, $CD \parallel EF$ and $y : z = 3 : 7$, find x .

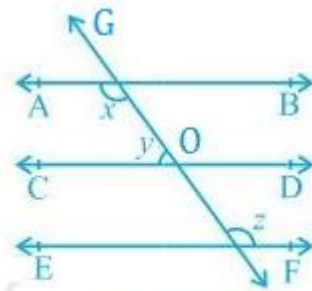


Fig. 6.29

- 5.) In Fig. 6.43, if $PQ \perp PS$, $PQ \perp SR$, $\angle SQR = 28^\circ$ and $\angle QRT = 65^\circ$, then find the values of x and y .

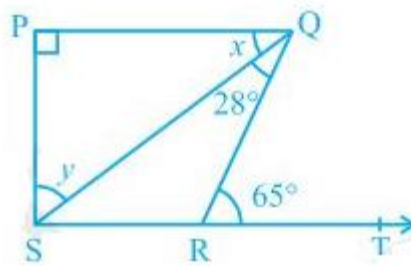


Fig. 6.43

- 6.) ABCD is a quadrilateral in which $AD = BC$ and $\angle DAB = \angle CBA$ (see Fig. 7.17). Prove that

- (i) $\triangle ABD \cong \triangle BAC$
- (ii) $BD = AC$
- (iii) $\angle ABD = \angle BAC$.

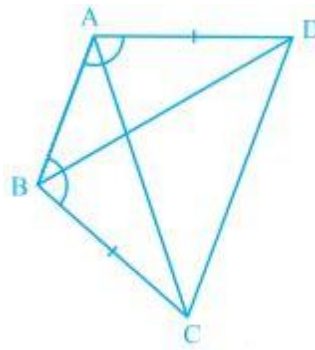


Fig. 7.17

7.) Show that the angles of an equilateral triangle are 60° each.

8.) AD is an altitude of an isosceles triangle ABC in which $AB = AC$. Show that

(i) AD bisects BC (ii) AD bisects A.

9.) In $\triangle ABC$, AD is the perpendicular bisector of BC (see Fig. 7.30). Show that $\triangle ABC$ is an isosceles triangle in which $AB = AC$.

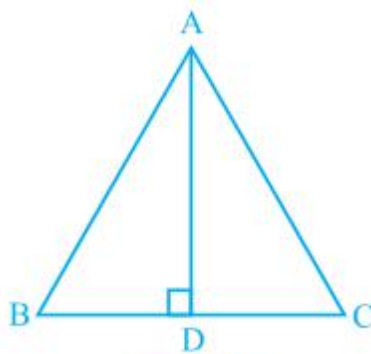


Fig. 7.30

10.) ABC is a right-angled triangle in which $A = 90^\circ$ and $AB = AC$. Find B and C.

HARI VIDYA BHAWAN
SUBJECT- SOCIAL SCIENCE
WORKSHEET NO -37
REVISION WORKSHEET
CLASS -IX

Date- 11-09-2020

General Instructions: -

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VERY SHORT QUESTIONS

Q1. What is the aim of production?

Q2. What is the full form of HYV?

- Q3. What do you understand by 'people as a resource'?
- Q4. Who wrote the The Spirit of the Laws?
- Q5. Which ruler came to power in France in 1774?
- Q6. In which year did " Indira Point" submerge under water due to tsunami?
- Q7. Why has 82°30' been selected as the standard meridian of India?
- Q8. What is a referendum?
- Q9. After how many years does Mexico hold elections for electing the president?
- Q10. Define yield.

SHORT QUESTIONS

- Q11. How did the use of modern farming methods prove beneficial for Indian farmers?
- Q12. Mention any three features of National Health Policy.
- Q13. What are the disadvantages of using modern farming methods?
- Q14. Define Sarva Siksha Abhiyan?
- Q15. How did storming of Bastille became the main cause of the French Revolution?
- Q16. Who were Jacobins? What was their role in emergence of France as a Republic?
- Q17. What purpose does mid-day meal scheme serve?
- Q18. What is a subcontinent? Name the countries that constitute the Indian subcontinent. How is India different from other countries of Asia?

LONG QUESTIONS

- Q19. what is the aim of production? State any four requirements for production.
- Q20. Explain different types of unemployment found in India.
- Q21. Mention some features of democracy.
- Q22. What are the merits and demerits of a democracy?

Q23. Distinguish between the democratic government and non-democratic government.

Q24. Distinguish between traditional methods of farming and modern methods of farming.

Q25. How did philosophers influence the thinking of the people of France?

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 - 40

दिनांक :- 11|9|20

पुनरावृत्ति कार्य

पुस्तक - स्पर्श (गद्य खंड)

पाठ - 2 तताँरा वामीरो कथा

(लेखक - लीलाधर मंडलोई)

* प्रस्तुत प्रश्न याद करके अपनी हिंदी पुस्तिका में कीजिए।

- प्र01) तताँरा वामीरो कहाँ की कथा है ?
- प्र02) तताँरा की तलवार के बारे में लोगों का क्या मत था ?
- प्र03) वामीरो ने तताँरा को बेरुखी से क्या जवाब दिया ?
- प्र04) तताँरा - वामीरो की त्यागमयी मृत्यु से निकोबार में क्या परिवर्तन आया ?
- प्र05) निकोबार के लोग तताँरा को क्यों पसंद करते थे ?

- प्र06) निकोबार द्वीपसमूह के विभक्त होने के बारे में निकोबारियों का क्या विश्वास था ?
- प्र07) तताँरा खूब परिश्रम करने के बाद कहाँ गया ?
- प्र08) वामीरो से मिलने के बाद तताँरा के जीवन में क्या परिवर्तन आया ?
- प्र09) रूढ़ियाँ जब बंधन बन बोझ बनने लगें तब उनका टूट जाना ही अच्छा है । क्यों ?
स्पष्ट कीजिए।
- प्र010) तताँरा और वामीरो के गाँव की क्या रीती थी ?

HARI VIDYA BHAWAN

Worksheet-40 (Revision Worksheet-2)

Class-X

Subject-Science

Session-2020-21

Ch- 6: Life Processes

Ch- 15: Our environment

Ch- 12 : Electricity

Date: 011/09/2020

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Answer the following questions:

Multiple choice type questions

Choose the correct answer:

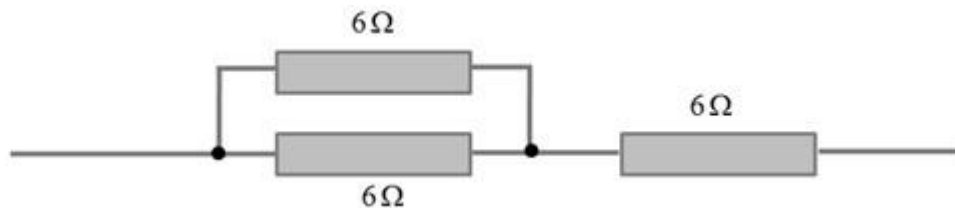
1. Arteries and veins are connected by a network of extremely narrow tubes called:
(a) Sieve tubes
(b) Capillaries
(c) Vena cava

(d) Valves

2. Which among the following is necessary to carry out the blood coagulation in a cut or wound?

- (a) White Blood Cells
- (b) Blood plasma
- (c) Platelets
- (d) Red blood cells

3. If in the given arrangement, the three resistors are to be replaced by a single resistor. What will be the value of this resistor?



- (a) 4Ω
- (b) 6Ω
- (c) 9Ω
- (d) 18Ω

4. The functional unit of environment is

- (a) Ecosystem
- (b) Nitrogen
- (c) Carbon
- (d) Oxygen

5. Arteries and veins are connected by a network of extremely narrow tubes called:

- (a) Sieve tubes
- (b) Capillaries
- (c) Vena cava
- (d) Valves

Very short answer type questions:

In the following questions a statement of Assertion is followed by a statement of Reason. Mark the correct choice as

(A) If both Assertion and Reason are true and Reason is the correct explanation of Assertion.

- (B) If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
(C) If Assertion is true but Reason is false.
(D) If Assertion is false. But Reason is true

6. **Assertion:** Conductors allow the current to flow through themselves..

Reason: They have free charge carriers.

7. **Assertion:** Saliva contain pepsin enzyme..

Reason: Pepsin digest proteins.

8. What is the primary requirement for pancreatic enzymes to act.

9. Why do the walls of the trachea not collapse when there is less air in it?

10. What is emulsification of fats ?

Short answer type questions :

11 Give any three methods to reduce the problem of waste disposal.

12. Why does the cord of an electric heater not glow while the heating element does?

13. Explain food chain with an example.

14. What are decomposers? Write their importance with respect to our environment.

15. (a) What material is used in making the filament of an electric bulb?

(b) Name the characteristics which make it suitable for this.

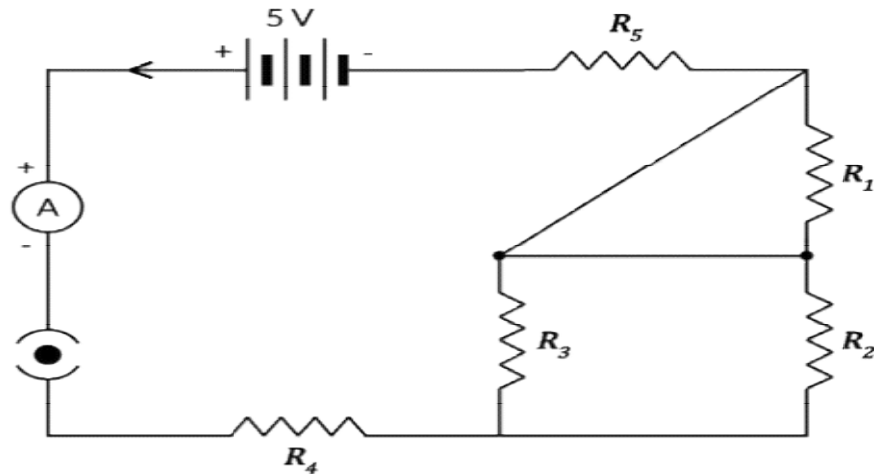
16. An electric bulb draws a current of .8 A and works on 250 V on the average 8 hours a day.

a. Find the power consumed by the bulb.

b. If the electric distribution company charges Rs 5 for 6 KWH, what is the monthly bill for 60 days.

Long answer type questions :

17. (a) Consider the following electric circuit.



- (i) Which two resistors are connected in series?
- (ii) Which two resistors are connected in parallel?
- (iii) If every resistor is $2\ \Omega$, what current will flow in the circuit?
- (b) An electric heater draws a current of 10 A from a 220 V supply. What is the cost of using the heater 5 hours per day for 30 days if the cost of 1 unit is Rs. 2.50?
18. (a) What is the role of liver in the human beings?
 (b) Write down the function of blood and lymph.
 (b) What is ultrafiltration? How does it occur?
19. Explain the process of nutrition in Amoeba.
20. (a) Give the differences between biodegradable and non-biodegradable substances.
 (b) What will be the amount of energy available to the organisms of the 2nd trophic level of the food chain, if the energy available at the first trophic level is 10,000J?

NOTE:

- This worksheet is for your self assessment. To solve the above questions read NCERT book and all the notes of chapter 6, 15 and chapter 12