

ST.ARNOLD'S CENTRAL SCHOOL, PUNE
PERIODIC TEST -2,2017-18
SUB-SCIENCE

MM-50

STD-VIII

Instructions:

1. Q.1 to 5 carries 1 mark each.
2. Q.6 to 11 carries 2 marks each.
3. Q.12 to 17 carries 3 marks each.
4. Q.18 to 20 carries 5 marks each

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1. Name the petroleum product used for surfacing of roads. (1)
 2. Define carbonisation. (1)
 3. Write full form of CNG and LPG. (1)
 4. A person sleeping in a closed room with burning coal, feels suffocated after sometime. Why? (1)
 5. What is the range of audible sound? (1)
 6. The sound from mosquito is produced when it vibrates it's wings at an average rate of 500 vibrations per second. What is the time period of the vibration? (2)
 7. A pendulum oscillates 60 times in 6 seconds. Find its time period and frequency. (2)
 8. Amit and Sunil were doing an experiment in which water needed to be heated in a beaker. Amit kept the beaker near the wick in the yellow part of the candle flame. Sunil kept the beaker in the outermost part of the flame. Water in which of the beakers would get heated faster? Why? (2)
 9. Camphor burns with a flame, but charcoal glows. Why? (2)
 10. Distinguish between inexhaustible and exhaustible natural resources. (2)
 11. Explain the term refining of petroleum? (2)
 12. Explain the characteristics and uses of coke. (3)
 13. With the help of diagram explain the process of petroleum and natural gas deposit. (3)
 14. We should not use water to put off fire caused by burning of petrol. Give Reason (3)
 15. Explain any two zones of flame with the help of neat well labeled diagram. (3)
 16. What is the calorific value of LPG and coal? Why LPG is better fuel than coal? (3)

17. Two friends Rajesh and Rakesh were walking on the road on a moonlit night.

Rajesh: I like to stare at moon. It looks so peaceful!

Rakesh: Yes, the moon is a quite and comfortable place. I like the fact that there is no traffic on the moon and there is no sound pollution.

Rajesh: Even the presence of traffic could not have caused noise pollution on the moon.

Rakesh: Yes, that is true. The moon is smaller than the Earth and has much less gravity.

So sound waves cannot travel on the moon and cause noise pollution.

Rajesh: No, that is wrong! We know that sound waves cannot travel in vacuum and always need a medium.

i) Who is right- Rakesh or Rajesh?

ii) State two measures which we can take to reduce noise pollution on the road.

iii) Write any one value which you learned from the topic sound. (3)

18. Describe with an activity how sound travels through solids. (5)

19. a) Paper by itself catches fire easily where as piece of paper wrapped around an aluminium pipe does not. Why?

b) In an experiment 5.5kg of fuel was completely burnt. The heat produced was measured to be 200000kJ. Calculate the calorific value of the fuel? (5)

20. a) You are roaming in the forest. Name the exhaustible resources and inexhaustible resources you find there.

b) Name the agency in India that advises people, how to save petrol/diesel. Write the tips given by them? (5)