

## PERIODIC TEST - 2

Class VIII

SCIENCE  
SET A

Time : 1½ hrs.

Marks : 40

### SECTION - A

1. Coal is processed in industries to get some useful products. Which of the following is not obtained from coal?

- a) Coke                      b) Coal tar                      c) Coal gas                      d) CNG                      1

OR

Natural gas contains only traces of :

- a) ethane                      b) methane                      c) both ethane & propane                      d) propane

2. The image shows a common binder in road construction it is :

- a) Bitumen  
b) Bituman  
c) Betumen  
d) betuman



1

3. Extinction of plants and animals will cause?

- a) evolution of new species                      b) loss of natural habitat  
c) rapid depletion of resources                      d) damage to food chain                      1

OR

What do black buck, elephant, python and golden cat together represent in a forest?

- a) Fauna                      b) Flora                      c) Ecosystem                      d) Species

4. Carpenters often grease screws before fixing them to

- a) Increase friction                      b) Maintain friction  
c) Decrease friction                      d) Make it light weight                      1

5. Which of the following quantities are proportional to each other?

- a) Frequency and wavelength                      b) Amplitude and loudness  
d) Time-period and frequency                      d) All of these                      1

6. What are the different constituents of petroleum?                      1

7. What is the unique feature of the biodiversity found in Pachmarhi Biosphere Reserve?                      1

OR

Define endemic species with suitable example.

8. The handle of a cricket bat or a badminton racquet is usually rough. Explain the reason.                      1

9. Name a musical instrument which produces sound by air column.                      1

10. Match the following :

2

Column A	Column B
a) Rock shelters	p) Poaching is prohibited
b) In sanctuaries	q) Black buck
c) Threatened wild animals	r) 55 rock shelters
d) Pachmarhi biosphere	s) idea of life of primitive people

### SECTION - B

In the following questions (No. 11-12) a statement of Assertion followed by a statement of Reason is given. Choose the correct answer out of the following choices.  $2 \times 1 = 2$

- a) If both the assertion and the reason are true and the reason is a correct explanation of the assertion.
- b) If both the assertion and reason are true but the reason is not a correct explanation of the assertion.
- c) Assertion is true but reason is false
- d) Assertion is false but reason is true.

11. Assertion (A) : Petroleum is called black gold.

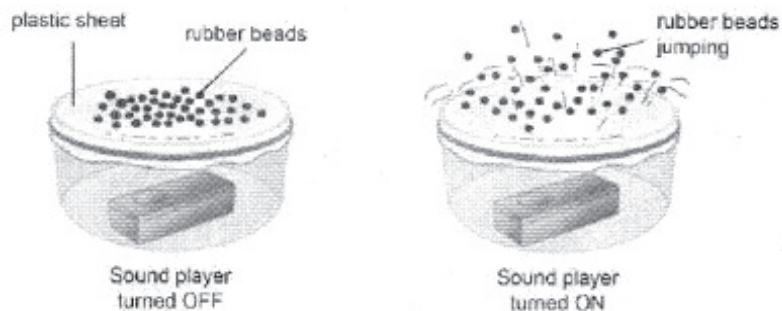
Reason (R) : Due to its great commercial importance, petroleum is called black soil.

12. Assertion (A) : It is done to provide the shoes better grip on the floor.

Reason (R) : The reason of shoes grip so that you can move safely.

13. Read the passage given below and answer the following questions.  $4 \times 1 = 4$

Raghav kept a mini sound player in each of two similar containers. He then tightly covered both the containers with stretched plastic sheets. He placed some tiny rubber beads on the surface of the sheets. The picture shows what Raghav noticed when he turned on the sound player.



- i) Which of these questions can be answered using the result of Raghav's activity?
  - a) Does sound travel through vacuum?
  - b) Does sound produce vibration?
  - c) Does sound travel as waves?
  - d) Does sound travel faster in solids than in gases?
- ii) Would the result of activity change if fewer beads had been used? Explain your answer.
- iii) A cat made a purring sound that had a frequency of 35 Hz.
  - a) Only human
  - b) Only elephant
  - c) Dog and chicken
  - d) Elephant and Human

- iv) Which of the animals mentioned in the table can hear the purring?
- Sounds that are softer than 20 dB
  - Sounds that are in between 20 dB and 40 dB
  - Sounds that are louder than 80 dB
  - Sounds that are between 40 dB and 80 dB

**SECTION - C**

14. Discuss the effects of deforestation on the next generation. 2

**OR**

Why are wildlife sanctuaries important for conservation of plants and animals?

15. When the cutting edge of a knife is put against a fast rotating stone to sharpen it, sparks are seen to fly? Explain the reason. 2
16. What is frequency? How does it affect the quality of sound? 2

**OR**

What are the consequences of noise pollution?

17. Is detorestation associated with global warming. If yes, how? 3

**OR**

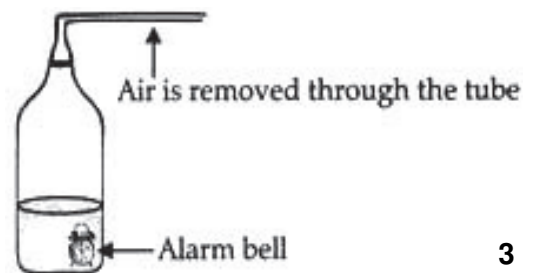
What are the causes and consequences of deforestation?

18. While travelling on a rickshaw, you might have experienced that if the seat cover is very smooth, you tend to slip when brakes are applied suddenly. Explain. 3

**OR**

Iqbal has to push a lighter box and Seema has to push a similar heavier box on the same floor. Who will have to apply a larger force and why?

19. An alarm bell is kept inside a vessel as shown in figure. A person standing close to it can distinctly hear the sound of the alarm. Now if the air inside the vessel is removed completely how will the loudness of alarm get affected for the same person?



20. a) What will happen if all the coal and petroleum reserves are depleted?  
 b) What can be done by you to prevent depletion of coal and petroleum? 4

**OR**

List major steps taken by government to conserve biodiversity in India.

21. Ram has to push a lighter box and Shikha has to push a similar heavier box on the floor. Who will have to apply larger force and why? 4

**OR**

What are the different methods to reduce friction?

## PERIODIC TEST - 2

**Class VIII**

**SCIENCE**

**Time : 1½ hrs.**

**SET B**

**Marks : 40**

### SECTION - A

1. That gas produced by burning of fossil fuels which is itself highly poisonous:
- |                    |                        |          |
|--------------------|------------------------|----------|
| a) Carbon monoxide | b) Chlorofluorocarbons |          |
| c) Carbon dioxide  | d) Carbonic acid       | <b>1</b> |

**OR**

Conversion of dead trees and other plants into coal is called :

- |                  |             |                    |                             |  |
|------------------|-------------|--------------------|-----------------------------|--|
| a) Carbonisation | b) Refining | c) Decarbonisation | d) Destructive distillation |  |
|------------------|-------------|--------------------|-----------------------------|--|
2. Air is a natural resource and cannot be exhausted by human activities. It is known as inexhaustible natural resource. Which of the following is another inexhaustible natural resource? **1**
3. The place meant for conservation of biodiversity in their natural habitat are :
- |                         |                      |                   |                 |          |
|-------------------------|----------------------|-------------------|-----------------|----------|
| i) zoological garden    | ii) botanical garden |                   |                 |          |
| iii) wildlife sanctuary | iv) national park    |                   |                 |          |
| a) (i) and (ii)         | b) (ii) and (iii)    | c) (iii) and (iv) | d) (i) and (iv) | <b>1</b> |

**OR**

In our country, large patches of forests are being cleared for cultivation of crops. The environmental impact of such a practice will lead to

- |                 |                      |                   |                   |  |
|-----------------|----------------------|-------------------|-------------------|--|
| a) soil erosion | b) soil conservation | c) soil pollution | d) soil fertility |  |
|-----------------|----------------------|-------------------|-------------------|--|
4. Friction offered by water is good for the
- |                              |                                     |          |
|------------------------------|-------------------------------------|----------|
| a) Movement of ships or boat | b) Respiration of aquatic organisms |          |
| c) Health                    | d) Breathing of aquatic plants      | <b>1</b> |
5. The relation between the speed of sound, frequency and wavelength is
- |                                   |                                   |          |
|-----------------------------------|-----------------------------------|----------|
| a) Frequency = speed × speed      | b) Wavelength = frequency × speed |          |
| c) Speed = frequency × wavelength | d) All of these                   | <b>1</b> |
6. What does CNG stand for and why is it considered to be a better fuel than petrol? **1**
7. What is the function of wildlife sanctuary? **1**

**OR**

How does deforestation lead to frequent floods and droughts?

8. What is used in cycle brakes to increase friction? **1**
9. What is velocity of sound? **1**

10. Match the following :

2

Column A	Column B
a) Biosphere Reserve	p) areas reserved for wildlife
b) National Park	q) endangered
c) Species	r) Panchmarhi biosphere reserve
d) Asiatic cheetah	s) capable of interbreeding

**SECTION - B**

**In the following questions (No. 11-12) a statement of Assertion followed by a statement of Reason is given. Choose the correct answer out of the following choices.  $2 \times 1 = 2$**

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- c) Assertion is true but reason is false
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11. Assertion (A) : The resources are present in unlimited quantity in nature and are not likely to be exhausted by human activities are called inexhaustible resources.

Reason (R) : Forests, wildlife, minerals are examples in exhaustible resources.

12. Assertion (A) : Friction is a force which acts in the direction of motion of a body.

Reason (R) : Polishing a surface reduces friction of the surface.

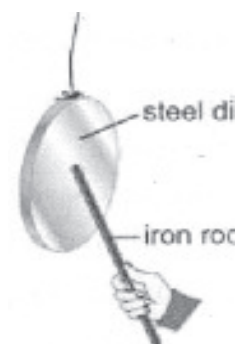
13. **Read the passage given below and answer the following questions.  $4 \times 1 = 4$**

Aditi hangs four steel dishes of the same size but different thickness. She hits each of them with an iron rod.

	Dish 1	Dish 2	Dish 3	Dish 4
Thickness of dish	1 mm	1.5 mm	0.5 mm	2 mm

- i) The thicker the dish, the lower will be the vibration.  
Which dish will produce the loudest sound when hit?

- a) Dish 1                      b) Dish 2
- c) Dish 3                      d) Dish 4



- ii) Which of these statements proves that sound can travel through solids?
- We can hear the sound of wind
  - We can hear the sound of lightning
  - We can hear a bell ringing from a distance
  - We can hear heartbeats by using a stethoscope
- iii) Which part of the human ear vibrates on receiving sound waves?
- Ear lobe
  - Eardrum
  - Inner ear
  - Ear
- iv) Name the sound producing organ in human.

**SECTION - C**

14. Protected forests are also not completely safe for wild animals. Why? **2**

**OR**

Why are endemic organisms in greater danger of becoming extinct?

15. Amit is pushing a heavy trunk on the floor. Finding it a little difficult, he turns the trunk to place it vertically. Will he need to do less effort now? Explain. **2**
16. Could you able to hear sound on the surface of moon? **2**

**OR**

Explain in what way noise pollution is harmful to humans?

17. What is the Project Tiger? What are its objectives? **3**

**OR**

Differentiate between the following :

- Wildlife sanctuary and biosphere reserve
  - Zoo and wildlife sanctuary
  - Flora and fauna
18. The soles of our shoes get worn out after a period of time. Explain why? **3**
19. How is sound produced and how is it transmitted and heard by us? **3**

**OR**

Suggest four measures to limit noise pollution in your locality.

20. Where is natural gas found? Also state its properties. **4**

**OR**

List some properties of petroleum.

21. The tyres of automobiles are made corrugated and rough. Why? **4**

**OR**

Explain why (a) sliding friction is less than static friction.

- objects moving in fluids must have special shapes.