

# KENDRIYA VIDYALAY SANGATHAN

## REGIONAL OFFICE VARANASI

### SUMMATIVE ASSESSMENT II- 2014-15

CLASS- VIII

TIME -2.30 HRS

SUBJECT -SCIENCE

MAX. MARKS - 60

#### **GENERAL INSTRUCTIONS -**

- 1- The question paper comprises of two sections, A and B
- 2- All questions are compulsory.
- 3- Q.NO.1 to 10 carry one mark each.
- 4- Q.No 11 to17 carry two marks each.
- 5- Q. No 18 to24 carry 3 marks each.
- 6- Q. No.25 carry five marks.
- 7- A separate text material will be provided to answer the OTBA questions in section B

### **Section A**

#### **(A) Fill in the blanks-----**

1. First step before sowing the crop is ----- of the soil.
2. Coal is a -----fuel.
3. A place where animals are protected in their natural habitat is called-----.
4. The fusion of ovum and sperm is called-----.
5. The unit of frequency is-----

#### **(B) Answer the following-----**

6. Name the device which is used to measure the intensity of earthquake.
7. Name the cells in the human eye which are sensitive to bright light.
8. Name the brightest planet in the night sky.
9. In which direction stars appear to move with respect to earth.
10. Name any two Rabi crops.
11. What is flora fauna of an area?
12. Name any two products of petroleum and write one use of each.
13. Define metamorphosis. Write the name of one stage in this process.
14. Why CNG is considered a better fuel for vehicles ?( write any two reasons)
15. How noise is harmful to human health? Mention two effects.
16. Write two differences between meteor & meteorite.

17. A ray of light is incident at angle of

(i)  $30^\circ$

(ii)  $90^\circ$

Find the angle of reflection for both the incident angles.

18. Suggest three measures to protect yourselves from lightning when you are inside the house .

19. Explain how deforestation leads to reduce rainfall.

20. Explain how can you take care of your eyes.(Write any three precautions)

21. A Charged body loses its charge if we touch it with our hand. why?

22. Write any two difference between regular and irregular reflection of light. Give one example of each.

23. Draw the diagram of female reproductive system of human. Label any three parts on it.

24. Draw the sketch of Ursa Major to show the relative positions of prominent stars.

25. What are weeds? Write any three methods to control weeds. Name a Weedicide.

## **Section B**

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### MARKING SCHEME

- |  |           |
|--|-----------|
| 1. Preparation   | 1Mark     |
| 2. Fossil  | 1Mark     |
| 3. Sanctuary   | 1 Mark    |
| 4. Fertilization   | 1Mark     |
| 5. Hertz   | 1 Mark    |
| 6. Richer Scale  | 1 Mark    |
| 7. Cone Cells  | 1 Mark    |
| 8. Venus   | 1 Mark    |
| 9. East to West  | 1 Mark    |
| 10. Wheat, Gram (any Other   | 1 Mark    |
| 11. Flora-Plants found in a particular area                            | 1 Mark    |
| Fauna- Animals found in a particular area                              | 1 Mark    |
| 12. Petrol- Used as a motor fuel                                       | 1 Mark    |
| Kerosene- fuel for stoves.   | 1 Mark    |
| 13. Metamorphosis- Transformation of larva into adult drastic changes. | 1 ½ Marks |
| Egg or Larva or Tadpole  | ½ Marks   |
| 14 (. i) CNG burns without Smokes hence pollution free.                | 1 Mark    |
| (ii) It can be used directly for burning in homes and factories.       | 1 Mark    |
| 15. (i) Noise causes heart problems.                                   | 1 Mark    |
| (ii) It may cause temporary or even permanent impairment of hearing.   | 1 Mark    |
| 16. Difference between meteors and meteorite.                          |           |
| Meteors  | 1 Mark    |
| Small heavenly object when enter into earth atmosphere                 |           |
| Due to friction gets heat up glows and evaporate.                      |           |
| Meteorite  |           |
| Large object, they reach on earth before they evaporate completely     | 1 Mark    |
| 17.  |           |

Incident angle	Reflection angle
30°	30°
0°	0°

1Mark

1 Mark

18. Three measures to protect ourselves from lightening.

1+1+1=3 Marks

(i) Contact with electrical wires and metal pipes should be avoided.

(II) Bathing should be avoided during thunders storms to avoid contact with running water

(III) Electrical appliances like TVs etc. should be unplugged.

19. Deforestation increases the amount of carbon dioxide in the atmosphere because due to deforestation number of trees gets reduced hence less photosynthesis. Increased amount of carbon dioxide leads to global warming. This situation disturbs the water cycle and reduces rainfall. 3 Marks

20. Three precautions to protect our eyes.

1+1+1=3 Marks

(I) avoid looking of sunlight

(II) Never rub your eyes with dirty hands.

(III) Wash your eyes frequently with clean water

21. A charged body looses its charge if we touch it with our hand because the charge of charged body goes directly to the earth through our body. 2mark

Our body acts as a conductor for the flow of electric charge. 1 mark

22. Regular Reflection –

1 ½ +1 ½=3 Mark

(1)In this phenomenon all the rays reflected from the plain surface are parallel.

(2) It occurs on smooth surfaces

Example – plain mirror

Irregular reflection-

In this phenomenon all the reflected rays are not parallel to each other.

(1) It is caused by irregularities of the reflective surface.

Example – card board

23. Diagram of human female reproductive system

1 ½ Mark

Diagram – please refer to the text book class VIII

Labeling any three parts

3x ½ Mark

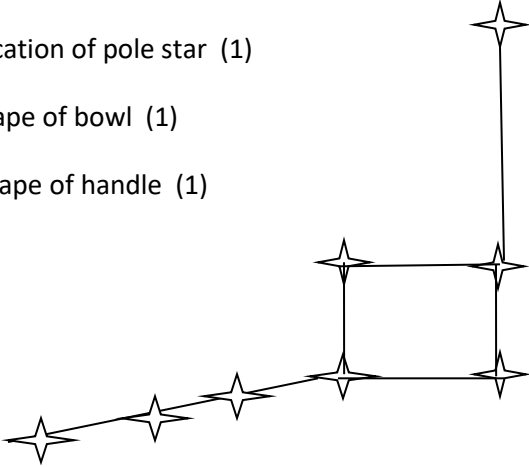
24 sketch of URSA MAJOR with seven stars showing exact position.

3 Mark

-Location of pole star (1)

-Shape of bowl (1)

- Shape of handle (1)



25. weeds – undesirable plants grown along with crop naturally in the crop field.

1 Mark

Methods to control weeds –

(i) Tilling before sowing of crops

1 Mark

(ii) Manually removal by uprooting or cutting weeds.

1 Mark

(iii) Spraying weedicides.

1 Mark

(iv) One weedicides- 2, 4-D

1 Mark