

21.01.20

EVERWIN VIDHYASHRAM

STD: IX(Boys)

TT – BIOLOGY

Marks:25

I. Answer the following questions:

8x1=8

1. Which of the is a mismatch?

- a)AIDS – Bacterial infection b)Polio – Viral infection
c)Malaria – Protozoan infection

d) Elephantiasis – Helminth infection

2. BCG is an effective vaccine to prevent -----

- a)Tetanus b)Tuberculosis c)Diphtheria d)Pertussis

3. The organism which spreads the disease from an infected person to a healthy person is called -----

4. Any organism capable of producing a disease is called -----

True or False:

5. The process of vaccination was developed by Jenner in the year 1796.

6. The immune system of our body is normally fighting off microbes.

Very Short Answer:

7. Name the virus which cause jaundice.

8. List out some air-borne diseases.

II. Answer in brief:

4x3=12

9. State the principle of immunization.

10. Why can we not make antiviral drugs?

11. What is inflammation? What are the symptoms and sign of inflammation.

12. What are the conditions favouring air-borne diseases?

(OR)

Name the target organs for the following diseases:

i) Hepatitis targets -----

ii) Fits (or) unconsciousness targets -----

iii) Pneumonia targets -----

III. Answer in detail:

1x5=5

13. What are the differences between a virus and a bacteria?

(OR)

“On exposure with an infectious microbe does not necessarily mean developing noticeable disease”. Do you agree? Explain with reason. If yes, how severe infections occur in our body?

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STD: IX(Girls)

TT – Physics

Marks:25

I. Answer in one word:

1x5=5

1. What is power?

2. Define 1 watt of power.

3. Write the expression for the Potential energy of an object.

4. What are the forms of energy which is present in nature.

5. The energy used in one hour at the rate of is called 1 kWh.

II. Answer in brief.

5x3=15

1. Find the energy possessed by an object of mass 10 kg when it is at a height of 6 m above the ground. Given, $g = 10 \text{ m s}^{-2}$.

2. An object of mass 12 kg is at a certain height above the ground. If the potential energy of the object is 480 J, find the height at which the object is with respect to the ground. Given, $g = 10 \text{ m s}^{-2}$.

3. A person holds a bundle of hay over his head for 30 minutes and gets tired. Has he done some work or not? Justify your answer.

4. An electric heater is rated 1500 W. How much energy does it use in 10 hours?

5. A certain household has consumed 250 units of energy during a month. How much energy is this in joules?

III. Answer in detail.

1x5=5

1. Two girls, each of weight 400N climb up a rope through a height of 8m. We name one of the girls A and the other B. Girl A takes 20 s while B takes 50 s to accomplish this task. What is the power expended by each girl?