



विद्या सर्वार्थ साधिका

ANANDALAYA
PERIODIC TEST - 2
Class : VIII

Subject: Science
Date : 25-09-2023

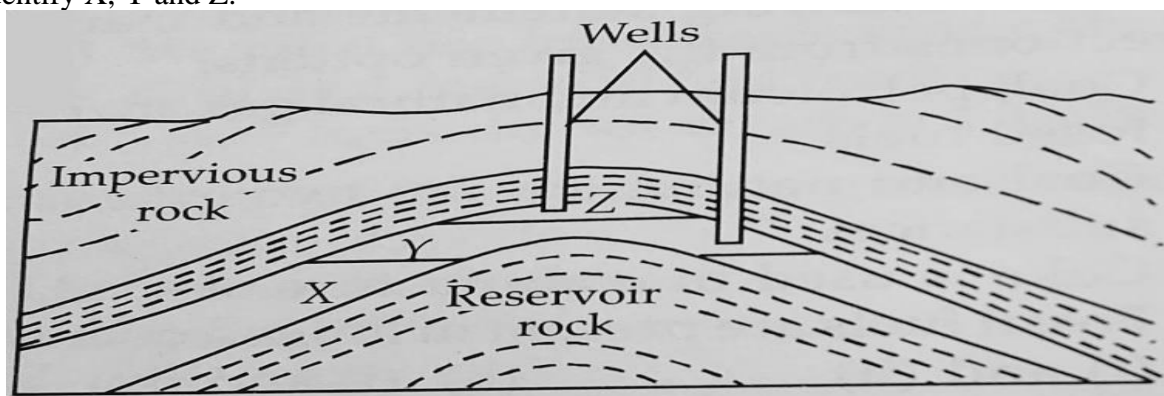
MM : 50
Time:2 hours

General Instructions:

1. This question paper consists of 23 questions. All questions are compulsory.
2. Question paper has four sections: Section A, Section B, Section C and Section D.
3. Section A consists of 11 multiple choice questions carrying 01 mark each.
4. Section B consists of 3 short answer questions carrying 02 marks each.
5. Section C consists of 6 short answer type questions carrying 03 marks each.
6. Section D consists of 3 long answer type questions carrying 05 marks each.

SECTION A

1. Shrillness of a sound is determined by the _____ of vibration. (1)
(A) Amplitude (B) Frequency
(C) Loudness (D) Intensity
2. In the tug of war, two teams pull the rope equally hard. The rope _____. (1)
(A) moves towards left side team (B) moves towards right side team
(C) does not move either side (D) breaks at the ends
3. A load is suspended from a spring balance. The effect of force is the change in the _____ of spring. (1)
(A) speed (B) direction (C) mass (D) shape
4. The following figure shows the deposits of petroleum and natural gas below the earth's surface. (1)
Identify X, Y and Z.



	X	Y	Z
(A)	oil	water	gas
(B)	water	oil	gas
(C)	water	gas	oil
(D)	gas	oil	water

5. Which element undergoes spontaneous combustion? (1)
(A) Calcium (B) Phosphorous (C) Copper (D) Iron
6. The status of algae in aquatic food chain is _____. (1)
(A) Carnivore (B) Producer (C) Host (D) Parasite

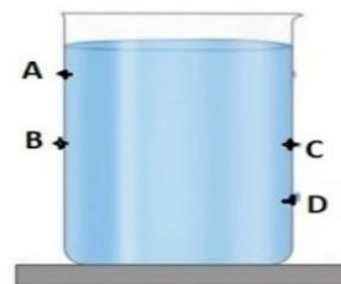
7. Which one is the infectious but non-communicable disease? (1)
 (A) Tetanus (B) Chicken pox (C) Cancer (D) Hepatitis
8. Read the statements given below. (1)
 (i) Seeds require moisture for germination.
 (ii) Plants can absorb nutrients mostly in dissolved form.
 (iii) Irrigation protects crops from both frost and hot air currents.
 (iv) Irrigation improves soil texture.
 Choose the combination of statements which indicate the need to irrigate crops.
 (A) i and ii (B) i, ii, iii (C) i, ii, iii, iv (D) i and iii

For question numbers 9 to 11 two statements are given one labelled as Assertion and the other labelled Reason, Select the correct answer to these questions from the codes (A), (B), (C) and (D) as given below.

- (A) Both Assertion and Reason are true and Reason is the correct explanation of Assertion.
 (B) Both Assertion and Reason are true but Reason is NOT the correct explanation of Assertion.
 (C) Assertion is true but Reason is false.
 (D) Assertion is false and Reason is also false.
9. Assertion: Fluid friction can be minimised by giving suitable shapes to bodies moving in fluids. (1)
 Reason: Fluid friction slows down the movement of bodies in fluid.
10. Assertion: Kerosene is a fossil fuel. (1)
 Reason: Kerosene is not obtained as a fraction of fractional distillation of petroleum.
11. Assertion: Organism like rats, locusts that attack and damage crop are called pests. (1)
 Reason: Chemicals are sprayed on the crops to kill pest.

SECTION B

12. (i) Mention any two properties of liquid pressure.
 (ii) A water tank has four taps fixed at points A, B, C and D as shown in the figure. Compare the pressure of water at A, B, C and D.



13. (a) Define calorific value. (2)
 (b) Y is formed when X is heated in the absence of air. Y is a tough, porous, and black substance. Both X and Y are carbon-rich materials. What could X and Y be?
14. Rahim visited his agricultural farm and pulled out a sweet pea plant from the field. He observed root nodules on the roots. (2)
 (a) What do root nodules contain?
 (b) Write the significance of root nodules.

SECTION C

15. A labourer pushes hard to move a heavy box that is lying on the floor. He finds two cylindrical iron rods nearby and keeps them under the heavy box. Now he could move the box with less effort. Answer the following questions based on the situation given. (3)
 (i) Why is a labourer finding difficulty in moving the box?
 (ii) How do the cylindrical iron rods help him to move the box easily?
 (iii) What are the factors affecting frictional force?
16. (i) How is pressure related to force and area? (3)
 (ii) A 20 N cuboid block has dimensions 4 m x 2 m x 1m. Calculate and compare the pressure exerted by the block on the table if it is made to lie with its sides of dimensions
 (a) 4 m x 2 m (b) 2 m x 1 m and (c) 4 m x 1m.

17. (a) Classify the natural resources based on their availability and write an example of each type. (3)
 (b) Which fraction of petroleum is used in making skin ointments and vaseline?
18. (a) Make a coloured diagram of a candle flame and label the following zones of flame: (3)
 Luminous zone, non-luminous zone and dark zone
 (b) It is difficult to burn a heap of green leaves but dry leaves catch fire easily. Explain.
19. (a) Name any two diseases that spread through mosquitoes. (3)
 (b) Why are raw vegetables kept in refrigerators whereas pickles can be kept outside?
 (c) Write the causative organism and mode of transmission of rust of wheat.
20. Given below is a conversation between two farmers Heera and Beera. (3)

Heera : Brother Beera, your maize crops look beautiful! They have grown fast.
 Beera : Yes, I have sprayed urea this time. What about you?
 Heera : Well, I am still relying on good old cow dung. I am saving money for buying a tractor.
 Beera : That's good. Tractor saves a lot of time and labour.
 Heera : Yes, it's been very labour intensive for me and now these weeds have come up.
 Beera : Try weedicides, they are very effective.

Now answer the following questions based on the conversation.

- (i) List the practices which are not environment friendly and why?
 (ii) What is the advantage of modern agriculture implements over traditional ones?
 (iii) Name one weedicide and the precaution farmers must take during its application.

SECTION D

21. (i) We have learnt that vibration is necessary for producing sound. Explain why, the sound produced by every vibrating body cannot be heard by us. (5)
 (ii) What is the difference between Music and Noise?
 (iii) What is noise pollution?
 (iv) List any two sources of noise pollution in your surroundings.
22. (a) Define Fossil fuels. (5)
 (b) In an experiment 4.5 Kg of fuel was completely burnt. The heat produced was measured to be 180000 kJ. Calculate the calorific value of the fuel.
 (c) How does a fireman (i) cut off the supply of air and (ii) control the temperature during extinguishing fire?
23. (a) The two experimental set ups were kept undisturbed for an hour as shown in the figure 1 and figure 2. (5)

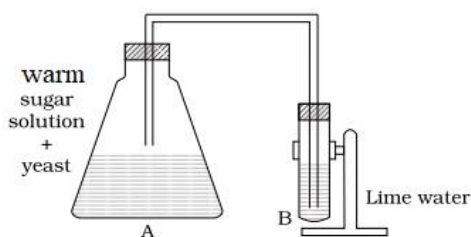


Figure 1

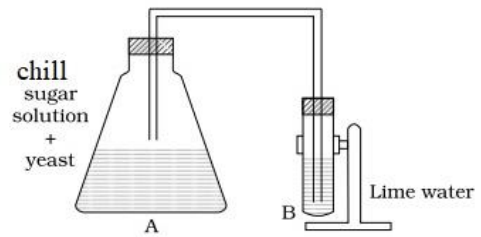


Figure 2

- (i) What happens to the sugar solution in Figure 1?
 (ii) What change will be observed in the test tube of Figure 2? Give scientific reasons for your answer.

(b) Complete the given table by replacing A, B, C and D with appropriate answers.

Human Diseases	Microbe	Mode of Transmission
Tuberculosis	A	B
Chikungunya	C	D