



**परमाणु ऊर्जा शिक्षण संस्था**  
**Atomic Energy Education Society**  
**टर्म-1/आवधिक परीक्षा-2 2023-24 Term-I/PT-II Examination 2023 - 24**

**कक्षा / Class :VI**

**अवधि / Duration : 3 Hrs.**

**विषय / Subject :Science**

**अधिकतम अंक/ Max.Marks : 80**

**General Instructions:**

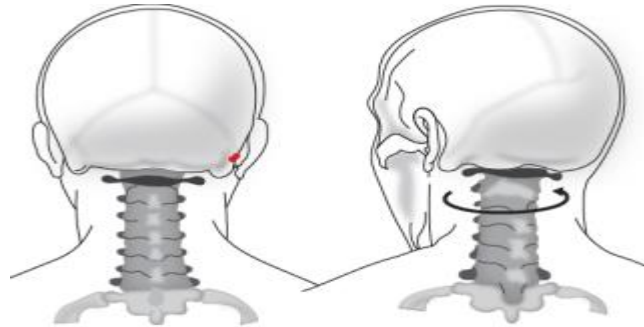
1. The question paper is divided into two Parts – Part A and Part B.
2. There are 47 questions in all. All questions are compulsory.
3. Part A consists of 30 questions each of 1M.
4. Q 1 to Q 18 are MCQ, Q 19 to Q 23 are to be answered in one word, Q24 to Q26 are based on Assertion and reasoning and Q27 to Q30 are case based questions.
5. Part B consists of subjective questions. Q 31 to 37 carries 2M each, Q38 to Q 44 carries 3M each and Q 45 to Q 47 carries 5M each.
- 6 . Draw figures wherever necessary with pencil and Write with neat and legible hand writing

**Part -A**

**I Choose the correct answer**

**(1X18=18M)**

1. A student observed a joint in the head of the body



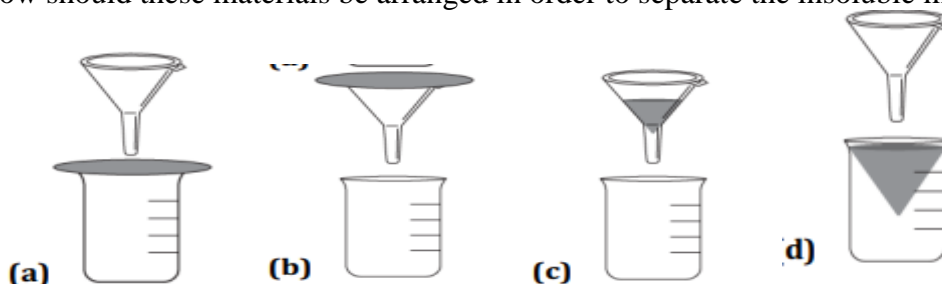
The student claimed that the joint is a pivotal joint. Is the claim made by the student correct?

- (a) No, as hinge joints are present in the head area.
- (b) No, as pivotal joints are present in the jaw portion only.
- (c) Yes, as it allows the individual to move its head in all directions.
- (d) Yes, as it allows forward and backward bending and right or left turning.

2. Plants perform photosynthesis in the presence of sunlight and chlorophyll. What other components are needed by the plants to perform photosynthesis? (1M)
- (a) Oxygen and water. (b) Carbon dioxide and water.  
(b) Carbon dioxide and oxygen. (d) Oxygen and Carbon monoxide.
3. An example of two immiscible liquid is . (1M)
- (a) Oil & water (b) Sugar & water (c) Sand & water (d) Milk & water
4. Roshan wants to build his muscles and thus joined a gymnasium for it. What changes should Roshan make in his diet to build strong muscles? (1M)
- (a) Eat more carbohydrate rich food. (b) Eat more vitamin rich food.  
(c) Eat more protein rich food. (d) Eat more fat rich food
5. Which of the following is **NOT** a function of water in our body? (1M)
- (a) To transport digested food (b) To get rid of waste  
(c) To release energy (d) To regulate body temperature
6. A bag has some lemons and oranges. A student separates them by the method of handpicking. Why do you think the student uses this method ? (1M)
- (a) Because both fruits have different size  
(b) Because both fruits have different colour.  
(c) Because both fruits have same shape and colour.  
(d) Both (a) and (b)
7. Metals lose shine and appear dull due to the action of (1M)
- (a) Air (b) Moisture (c) Both a and b (d) Either a or b
8. While preparing the tea, which method of separation is used to separate the tea leaves? (1M)
- (a) Filtration (b) Evaporation (c) Decantation (d) Sedimentation
9. The table shows the materials required for a filtration process. (1M)

- |   |
|---|
| 1. A beaker<br>2. A funnel<br>3. Filter paper |
|---|

How should these materials be arranged in order to separate the insoluble material from water?



- (a) like figure (a) (b) like figure (b) (c) like figure (c) (d) like figure (d)

10. Mixtures of red chilli powder in water, butter in water, petrol in water, and honey in water were given to Radha, Sudha, Sofia and Raveena, respectively. Whose mixture is in solution form? (1M)
- a) Radha,                      b) Sudha                      c) Sofia                      d) Raveena

11. Ravi conducted an experiment in which he filled a glass with one-third of the water. He added a drop of red ink into that glass and then stirred it for few minutes. After that he made an oblique cut at the base of the stem of a tender twig and then put it into the water as shown in the image. (1M)



This setup was left by the student overnight. What can be observed by the student on the next day?

- (a) Shedding of leaves from the stem                      (b) Rise of the colour into the stems  
 (b) Development of red coloured roots                      (d) Development of more branches at the stem
12. The table shows the list of some food items. (1M)



Which of these food items is important to be included in a balanced diet?  
 (a) Fruits, milk    (b) Cake, fruits    (c) Pizza, chocolate    (d) Ice-cream, cake

13. Match the objects below with the materials from which they could be made.

Object	Material
1. Notebook	i) Glass
2. Tumbler	ii) Wood
3. Belt	iii) Paper
4. Table	iv) Leather

a) 1- ii, 2-i , 3- iv , 4- iii

b)1- iii, 2- i , 3- iv , 4- ii

c) 1- i, 2- ii , 3- iii, 4- iv

d)1- iv, 2- ii , 3- i , 4- iii

14. \_\_\_\_\_ is a translucent substance. (1M)  
(a) Oily paper (b) Water (c) Sand paper (d) Wood

15 A student wants to identify a shrub in a garden, but he is getting confused between an herb and a shrub. Which characteristics of the plant will help the student identify the shrub?  
(a)Green stems (1M)  
(b)Hard and thick stems  
(c)Branches developed at the base of the stem  
(d)Branches developed in the upper part of the stem

16 Which of the following statements is incorrect? (1M)  
a.) Some materials appear shiny, while others appear dull.  
b.) Some materials are rough, while others are smooth.  
c.) Certain materials are hard, while others are soft.  
d.) Some stones are transparent, while some glasses are opaque.

17.The separation of heavier, insoluble impurities in an undisturbed mixture solution is known as \_\_\_\_\_. (1M)  
a.) Sedimentation b.) Decantationc.) Evaporation d.) Distillation

18. Which of the skull bones are movable?  
(a) Upper jaw (b) Teeth (c) Eye socket (d) Lower jaw (1M)

**Answer the following questions in one word** ( 1 x 5=5M)

19. The locomotory organ of snail :\_\_\_\_\_ (1M)

20. The condition caused by eating too much of fat rich food \_\_\_\_\_ (1M)

21. The grouping or sorting of things with similar or dissimilar characteristics (1M)  
is called :\_\_\_\_\_

22.Vitamins and minerals are called as \_\_\_\_\_ (1M)  
(Body building food/protective food)

23.The part of a plant that helps to carry materials like food and water to  
all parts of the plant:\_\_\_\_\_ (1M)

### **Assertion-Reason based question** (1 x 3=3M)

Assertion and reasoning type questions. Two statements are given. The first statement is Assertion and second statement Reason. Examine the two statements carefully and decide if the given options are correct:

- a) Both A and R is true and R is the correct explanation of A.
- b) Both A and R is true, but R is not the correct explanation of A.
- c) A is true, but R is false.
- d) A is false, but R is true.

24. Assertion (A): The bread slice when tested with iodine solution gives a blue-black colour.  
Reason (R): Blue-black colour confirms the presence of fat. (1M)

25. Assertion (A): Winnowing is used for separating components of a mixture based on of their particle sizes. (1M)  
Reason (R): Winnowing is done with help of wind.

26. Assertion (A): Shopkeepers usually keep biscuits, sweets etc. in transparent containers of glass or plastic.  
Reason (R): Buyers could see through the transparent containers. (1M)

### **Case Based Question** (1 x 4=4M)

#### **Read the following passage and answer the questions that follow.**

The process of conversion of water into its vapour is called evaporation. The process of evaporation takes place continuously wherever water is present. Salt is obtained from seawater through the process of evaporation. Sea water contains many salts mixed in it. One of these salts is the common salt. When sea water is allowed to stand in shallow pits, water gets heated by sunlight and slowly turns into water vapour, through evaporation. In a few days, the water evaporates completely leaving behind the solid salts. Common salt is then obtained from this mixture of salts by further purification.

27. Name the process in which water vapour is converted into water on cooling.  
(a) Condensation. (b) Evaporation. (c) Sedimentation (d) Decantation. (1M)

28. What does sea water contain? (1M)  
(a) Vitamins (b) Proteins (c) Salts (d) Carbohydrates.

29. Name the process by which salt is obtained from seawater. (1M)  
(a) Condensation. (b) Evaporation. (c) Sedimentation. (d) Decantation.

30. In the salt extraction process, the sea water is collected in \_\_\_\_\_ (1M)

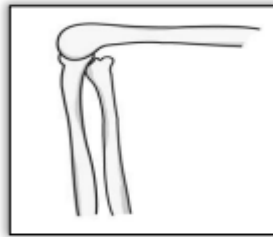
- (a) Dark pits      (b) narrow pits      (c) deep pits      (d) shallow pits

**Part -B**

**II Answer the following**

**( 7 X 2=14 M)**

31. Name a) two gases which are soluble in water. (2M)  
 b) two objects which are translucent ?
32. The animals A, B, C and D, all move without legs. The animal A moves by the alternate contractions and relaxations of the muscles of its foot. The animal B lives in water and swims by moving its tail from side to side. The animal C lives in soil and moves by lengthening and shortening its body segments alternately. The animal D moves forward by moving its body sideways in the form of many loops. What are A, B, C and D? (2M)
33. Draw a diagram showing tap root ,also label lateral roots (2M)
- 34 .Why should we eat cooked food? (2M)
35. Why should we group materials around us ? (2M)
36. Identify the type of joint in the given figure. Where do you find it? (2M)



37. Complete the following table (2M)

Items	Method of separation
i. Pebbles from rice	
ii .Sand from sand Water mixture	
iii. Water and Salt	
iv. Oil and water	

**III Answer the following**

**7 X 3=21 M**

38. Mention some cooking practices which causes loss of nutrients? (any three) (3M)
- 39 .Correct the following statements and rewrite the correct answer (3M)
- (a) Stem absorbs water and minerals from the soil.
- (b) We boil the leaf in oil to remove chlorophyll.

(c) Leaves need oxygen to prepare food by photosynthesis.

40.(a) Why do we need to separate different components of a mixture? Give one reason. (1M+2M)

(b) Identify the method of separation shown in the picture given below. Mention one situation where this method of separation is used



41. Write the name of any two objects which are made from following material (3M)  
a) Leather                      b) Cotton                      c) Wood

42 Write any three adaptive features of birds meant for flying. (3M)

43. What is the importance of skeleton of our body (Three points)? (3M)

44. Provide one-word answers to the following statements given below. (3M)

- a) Boney structure that enclose the organs of our body that lie in chest region.
- b) Part of the skeleton that forms the ear and nose-tip.
- c) Helps in the movement of the body by contraction and relaxation.

#### IV Answer the following

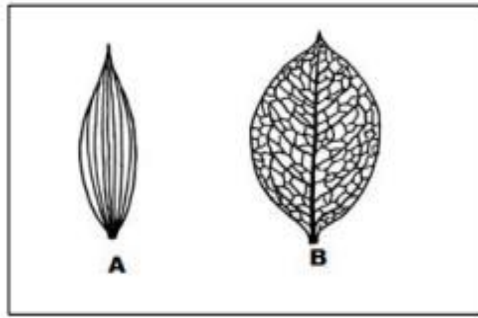
3 X 5=15 M

45. One may pluck mangoes or guavas from trees. But grain seeds are much smaller than mangoes or guavas. So, plucking them from their stalks would be impossible.

- a) How do farmers separate grain seeds from their stalks? (2)
- b) Which method is commonly used to separate the husk from grains? (1)
- c) How pebbles and stones are removed from sand at the construction sites? (1)
- d) Name the method that can be used to separate two liquids that do not mix together. (1)

46.(a) Draw and label the parts of a leaf. (2M)

(b) Identify the type of venation in A and B and give one difference between the two types of venation. ( $\frac{1}{2} M + \frac{1}{2} M + 1 M$ )



(c) If a plant has fibrous root, what type of venation are its leaves likely to have? (1M)

47. (a) What is a balanced diet? (1M)

(b) What is roughage? Why is it necessary to include roughage containing food in our diet? (2M)

(c) Identify P, Q, R and S in the given table.

( $\frac{1}{2}$  M X 4 = 2M)

Vitamin / Mineral	Deficiency/disorder	Symptom
<b>P</b>	Loss of vision	Poor vision, loss of vision in darkness.
Vitamin C	<b>Q</b>	Bleeding gums
Vitamin D	Rickets	<b>R</b>
<b>S</b>	Goiter	Glands in the neck appear swollen