Roll Number			

INDIAN SCHOOL MUSCAT
SECOND PERIODIC ASSESSMENT

SCIENCE

CLASS: IX   Sub. Code: 086   Time Allotted: 50 mts.
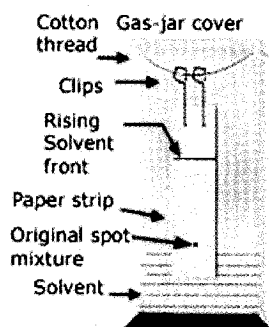
14 .11.2019   Max. Marks: 20

GENERAL INSTRUCTIONS:
- All questions are compulsory.
- Draw diagrams if necessary.

1. State the factors on which acceleration due to gravity on a planet depends.   1

2. State Archimedes' Principle. Write two practical applications of it.   2

3. A man weighs 600N on the Earth. What is his mass on Earth? Take $g = 10 m/s^2$. If he were taken on Moon, his weight would be 100N. What is his mass on Moon? What is acceleration due to gravity on Moon?   2

4. What is the source of centripetal force that a planet requires to revolve around the Sun? On what factors does that force depend?   2

5. Two miscible liquids A and B are present in a solution. The boiling point of A is $70^0 C$ while that of B is $90^0 C$. Suggest a method to separate them.   1

6. Write any two differences between physical and chemical changes. Give one example in which both physical and chemical changes take place.   2

7. (a) In a reaction 4.6 g of barium chloride reacted with 3.4 g of sodium sulphate. The products were 2.8g of sodium chloride and 5.2g of barium sulphate. The reaction takes place as follows: 2

    Barium chloride + Sodium sulphate----------> Sodium chloride + Barium sulphate

    Show that the above reaction is in agreement with law of conservation of mass.

    (b) State the law of conservation of mass.

8. Observe the diagram and answer the following questions: 2

(a) Identify the separation technique in the above diagram.

(b) State the principle of the above separation technique.

(c) Give any two applications where you can use this technique.

9. In which phylum the following characters are present? 1

    (a) Pseudocoelom

    (b) Water driven tube system for moving around

10. Define notochord. 1

11. Write any two characters that separate class Amphibia and class Pisces. 2

12. Name the following : 2

    (a) Body with three layers of cells

    (b) Species of Coelenterates living in colonies

    (c) The right and left half of the body have the same design

    (d) An Egg laying mammal

End of the Question Paper

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GENERAL INSTRUCTIONS:
- All Questions are compulsory.
- Draw diagrams if necessary.

1. State universal law of gravitation   1

2. What is meant by relative density? The density of a liquid is 860 Kg/m^3 What will be its   2
   relative density? Density of water is 1000 Kg/m^3.

3. a) Why will a sheet of paper fall slower than one that is crumpled into a ball?   1

   b) Write down the relationship between G and g.   1

4. A stone is dropped from the roof of a building takes 4s to reach the ground. Calculate the
   height of the building. (g= 9.8m/s^2)   2

5. How can we obtain pure copper sulphate from impure sample?   1

6. Classify the following as a chemical or physical change: 2

   (a) water boils to form steam

   (b) Burning of paper

   (c) An iron almirah gets rusted

   (d) Making a fruit salad with raw fruits

7. State any four postulates of Dalton's atomic theory   2

8. Draw a flow chart to explain water purification system in water works. 2

9. Define bilateral symmetry   1

10. In which phylum the following characters are present   1

    (a) Pseudocoelom

    (b) Water driven tube system for moving around

11. Name the following :   2

    (a) Body with three layers of cells

    (b) Species of Coelenterates living in colonies

(c) Phylum of spiny skinned animals

(d) An Egg laying mammal

12. Write two similar and two dissimilar characters of phylum Mollusca and Arthropoda   2

End of the Question Paper

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GENERAL INSTRUCTIONS:
- All Questions are compulsory.
- Draw diagrams if necessary.

1. Define weight of a body.   1

2. What is the source of centripetal force that a planet requires to revolve around the Sun? On what factors does that force depend?   2

3. A ball is thrown up with a speed of 0.5m/s. How high will it go before it begins to fall? Take $g = 10$ m/s^2.   2

4. a) When an object is immersed in a fluid, name the two forces acting on it.
   b) On which factors the magnitude of the upward force acting on the object depends?   2

5. Give any two applications of chromatography?   1

6. Draw a flow chart showing the separation of components of air. Name the process of separation of different gases from air?   2

7. (a) State the law of constant proportion.   2
   (b) Which postulate of Dalton's atomic theory can explain the law of constant proportion?

8. Name and explain the process used for separating acetone (boiling point =329K) and water from their mixture.   2

9. Write two specific characters of class Mammalia.   1

10. Define bilateral symmetry.   1

11. Write two similar and two dissimilar characters of phylum Mollusca and Arthropoda.   2

12. Name the following: 2

    (a) Common name for organisms coming under phylum porifera

    (b) Phylum of spiny skinned animals

    (c) Rod like support structure separating the nervous system from the gut.

    (d) Internal body cavity

End of the Question Paper