BIRLA PUBLIC SCHOOL, DOHA – QATAR
Summative Assessment – II (SA – 2) March - 2013

SCIENCE

Class: VII
Date: 12/03/2013

Max time: 3Hrs
Max. marks: 90

General Instructions:

1. This question paper comprises of two sections. **Section A and Section B.** You are to attempt both the sections.
2. All questions are compulsory.
3. There is no overall choice.
4. All questions of Section A and all questions of Section B are to be attempted separately.
5. Question numbers 1 to 3 in section A are one mark questions. These are to be answered in one word or one sentence.
6. Question numbers 4 to 7 are two mark questions, to be answered in about 30 words each.
7. Question numbers 8 to 19 are three mark questions, to be answered in about 50 words each.
8. Question numbers 20 to 24 are five mark questions, to be answered in about 70 words each.
9. Question numbers 25 to 42 in section B are multiple choice questions based on practical skills. Each question is one mark question. You are to choose one most appropriate response out of the four provided to you.

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**Section – A**

One Mark Questions:

1. What is the name given to the wind with a speed of 120km/hr in China sea?
2. What are lenticels?
3. Give an example of a food chain.

Two Marks Questions:

4. What are the factors responsible for water depletion?
5. (a) What is sludge?
   (b) What is the function of screens in a waste water treatment plant?
6. Holes are made in hanging banners and hoardings. Why?
7. What is a septic tank? Where is it used?

Three Marks Questions:

8. (a) What are spherical mirrors?
   (b) Which are the different types of spherical mirrors? Give one use of each.
9. Give reasons:
(a) Chemicals like paints, insecticides etc should not be thrown in the drains.
(b) Cooking oil and fats should be thrown in the drains.

10. (a) What is an electric fuse? Why is it called a safety device?
(b) What are the characteristics of a fuse wire?

11. Explain Girdling experiment.

12. Complete the following table:

<table>
<thead>
<tr>
<th>Cell / Tissue</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylem</td>
<td>(a) -------------------------------</td>
</tr>
<tr>
<td>(b) ----------</td>
<td>Blood cell that transport oxygen</td>
</tr>
<tr>
<td>Platelets</td>
<td>(c) -------------------------------</td>
</tr>
</tbody>
</table>

13. Write an activity to show that increased wind speed is accompanied by reduced air pressure.

14. Differentiate between aerobic and anaerobic respiration.

15. Draw a neat labelled diagram of human excretory system.

16. What are the functions of a fruit with reference to a plant.

17. As a responsible individual, give three ways to conserve water.

18. (a) Define deforestation.
(b) Explain how forests check flood.

19. Which are the different ways to distinguish between concave and convex lenses? Explain

Five Marks Questions:

20. (a) Explain cutting and tissue culture.
     (b) What are the advantages of vegetative reproduction?

21. (a) A forest is a dynamic living entity. Explain
     (b) Why are forests being cut these days?

22. (a) How can you prove that a convex lens converges the sunrays to a single point?
     (b) What is a nichrome wire? To what use it put to?

23. (a) Differentiate between breathing and cellular respiration.
     (b) Why does an athlete breathe faster after running fast?
     (c) What is the normal breathing rate at rest?
24. Describe how you make an electromagnet in a laboratory. Support your answer with a diagram.

SECTION B

Multiple Choice Questions:

25. The last step in waste water treatment is a ____________ process.
   (a) Biological    (b) Mechanical    (c) Chemical    (d) Physical

26. The property of light travelling in a straight line is called
   (a) Curvilinear propagation of light.
   (b) Rectilinear propagation of light
   (c) Both (a) and (b)
   (d) None of these

27. ________ every year is celebrated as the World water day.
   (a) Jan 22    (b) May 22    (c) May 27    (d) March 22

28. Addition of aerobic bacteria in waste water treatment is in
   (a) Primary stage    (b) Secondary stage
   (c) Tertiary stage    (d) None of these

29. What is shown in the diagram?
   (a) Budding    (b) Regeneration    (c) Binary fission    (d) Spore formation

30. Only ____________ percentage of total water resources of the world
    consists of fresh water, and is known as the usable water.
    (a) 3.6    (b) 4.6    (c) 2.6    (d) 5.6

31. The system of winds which moves from sea towards the land in the latitude of
    5° to 30° is known as
    (a) Monsoon    (b) Tornado    (c) Typhoon    (d) None of these

32. Which of the following is the purest form of water?
    (a) River water    (b) Rain water    (c) Ground water    (d) All of these

33. Alveoli are structures present in
    (a) Bronchi    (b) Gills    (c) Lungs    (d) All of these

34. Which of the following places is likely to be affected by a cyclone?
    (a) Kanyakumari    (b) Amritsar    (c) Bhopal    (d) Bangaluru
35. The process of loss of water vapour from the leaves of plants is called
(a) Transpiration  (b) Transportation  (c) Evaporation  (d) None of these

36. The modified swollen underground stem of Ginger is known as
(a) Runner  (b) Rhizome  (c) Layering  (d) Grafting

37. Water present in earth, as in well and spring is
(a) Ground water  (b) Surface water
(c) Clarified water  (d) None of these

38. The fuel for Hurricane is
(a) Warm water vapour  (b) Cloud
(c) Rain  (d) Wind

39. Which of the following activities use maximum water?
(a) Industry  (b) Agriculture  (c) Domestic use  (d) None of these

40. Which of the following is not a forest product?
(a) Plywood  (b) Gum  (c) Sealing wax  (d) Kerosene

41. Electric bell is the
(a) Direct application of an electromagnet
(b) Direct application of electric current
(c) Neither (a) and (b)
(d) None of these

42. Which disease is not caused by drinking polluted water?
(a) Cholera  (b) Diabetes  (c) Typhoid  (d) Hepatitis