

INDIAN SCHOOL SALALAH

FINAL EXAMINATION – MARCH 2019

SCIENCE

Class: VIII

Max.Marks: 80

Time: 3 hours

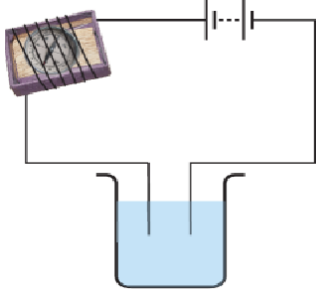
General Instructions:

- (i) This question paper consists of 4 pages with 27 questions in all.
- (ii) The question paper comprises of five sections – A,B,C,D and E. You are to attempt all the sections.
- (iii) All Questions are compulsory.
- (iv) Internal choice is given in sections B,C,D and E.
- (v) Questions 1 & 2 in Section –A are **one** mark questions . They are to be answered in one word or in one sentence.
- (vi) Questions 3 to 5 in Section –B are **two** mark questions . They are to be answered in about 30 words each.
- (vii) Questions 6 to 15 in Section –C are **three** mark questions . They are to be answered in about 50 words each.
- (viii) Questions 16 to 21 in Section –D are **five** mark questions . They are to be answered in about 70 words each.
- (ix) Questions 22 to 27 are in Section –E are based on practical skills and carry **two** marks each . These are to be answered in brief.

SECTION-A

1.	Name the hormone secreted by adrenal gland and state any one function	1
2.	What are the two steps involved in the preparation of soil?	1
SECTION-B		
3.	How is menarche different from menopause?	2
4.	a. Bhoojo while waving his hand very fast in front of his eyes observes that his fingers appear blurred. What could be the reason for it? b. What are the functions of cornea and lens in a human eye/ Why blind spot is named so? OR a How many images of a candle will be formed if it is placed between two parallel plane mirrors separated by 40cm? b. Write the uses of i) kaleidoscope ii) periscope.	2
5.	Name the constituents of petroleum used in the following i) Solvent for dry cleaning. ii) Fuel for heavy motor vehicles.	2
SECTION-C		
6.	Iron nails are placed in copper sulphate solution for two hours. State your observation and write the word equation in support of your answer.	3

7.	Write a short note on formation of Petroleum. OR It is believed that it took millions of years for the formation of coal a. Name and define the process, which results in the formation of coal? b. How is coke obtained from coal? State any two uses of coke.	3
8.	When we light a candle, the wax vapour mixes with air and then catches fire to produce a flame. a. Draw the structure of a candle flame and label the hottest part, moderately hot and least hot part. b. Which zone of a flame is used by goldsmiths to make gold ornaments? State the reason.	3
9.	a. Write short note on the two broad cropping pattern of India. b. Why are weeds harmful to the crops?	3
10.	Draw and explain the structure of the male gamete. OR Name the following. a. The female reproductive part where the female gametes are produced. b. Fertilisation takes place in which part of the female body. c. A baby before birth is termed as. d. Egg laying animals are known as. e. The first cloned mammal. f. A fertilized egg.	3
11.	Define the following a. Adolescence b. Hormones c. Adam's apple	3
12.	Why is the distance between stars expressed in light years? What do you understand by the statement that a star is 8 light years away from the earth? Convert 8 light years into metre. OR What are a. asteroids b. comets c. meteors d. meteorites e. artificial satellites ?	3
13.	Write the difference between contact forces and noncontact forces. Explain with examples.	3
14.	What are the different ways of charging? When a comb is rubbed against hair, the comb attracts the bits of paper. Why?	3
15.	How does light enable us to see something? Draw a ray diagram to show the image formation in a plane mirror. Write the characteristics of image formed by a plane mirror.	3
SECTION-D		
16.	Combustible materials produce heat energy on burning. a. State the three conditions necessary for combustion. b. If the clothes of a person catch fire, he is immediately wrapped up in a thick blanket in order to put off fire. Explain the reason behind it. c. Why is water not used in controlling electrical fires? d. Define the term inflammable substances by providing two examples OR	5

	<p>Efficiency of a fuel can be compared on the basis of its calorific value.</p> <ol style="list-style-type: none"> Define calorific Value. 5kg of wood produces 100,000 KJ of heat energy on complete combustion. Calculate the calorific value of the wood. State any two undesirable effects on the environment that are caused by combustion of fuels. 		
17.	<p>Abu was asked to check the conductivity of certain liquids with the following set up. But he found that there was no deflection of magnetic needle with distilled water.</p> <ol style="list-style-type: none"> Give a reason for the above observation. How will you change the distilled water into a conducting liquid? He also found that water breaks down into its components when electricity is passed. <ol style="list-style-type: none"> Name the process mentioned above. Name the gases formed during the process. 		5
18.	<ol style="list-style-type: none"> Write short note on plastids. Differentiate between plant cell and animal cell. 		5
19.	<ol style="list-style-type: none"> Define asexual reproduction. Explain the type of reproduction in hydra with neat diagrams. <p style="text-align: center;">OR</p> <ol style="list-style-type: none"> What is in vitro fertilization Explain the process of fertilization in human beings. 		5
20.	<ol style="list-style-type: none"> What is an electroscope? Explain the construction and working of an electroscope with the help of a diagram. What do you understand by <ol style="list-style-type: none"> Charging Discharging Earthing <p style="text-align: center;">OR</p> <p>What are the causes of earthquakes? How the power of an earthquake is estimated? At what strength it becomes destructive? What are the safety measures to be taken during an earthquake?</p>		5
21.	<p>What is a constellation? Draw sketches to show the relative positions of prominent stars in</p> <ol style="list-style-type: none"> Ursa Major Orion <p>How can we locate</p> <ol style="list-style-type: none"> The pole star with the help of Ursa Major? The star Sirius with the help of Orion? 		5
SECTION-E			
22.	Define reflection. What are the laws of reflection?		2
23.	<p>Write an activity to show that liquids exert pressure on the walls of the container.</p> <p style="text-align: center;">OR</p> <p>Define atmospheric pressure. Write an activity to show that the magnitude of atmospheric pressure is very large.</p>		2
24.	A paper cup containing water does not catch fire easily and can be held for a long time on the flame. Why?		2
25.	On touching an electric switch with wet hands a person can receive an electric shock. State		2

the reason.

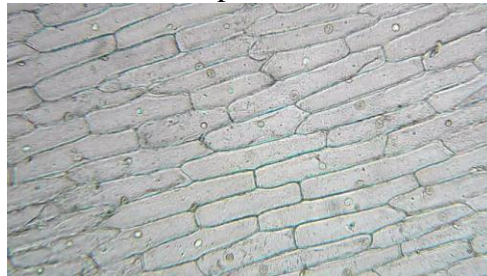
OR

Ali decided to electroplate an iron spoon with copper metal

- i) Name the electrolyte he is supposed to use for the activity.
- ii) Which terminal of the battery should be connected to the iron spoon, so that it is electroplated with copper?

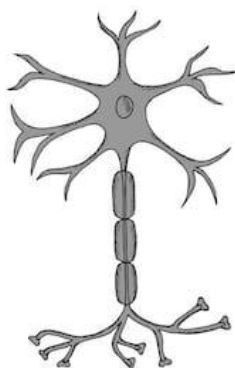
26.

Identify the cell and write the basic components of a cell.



OR

Identify the cells and write their functions.

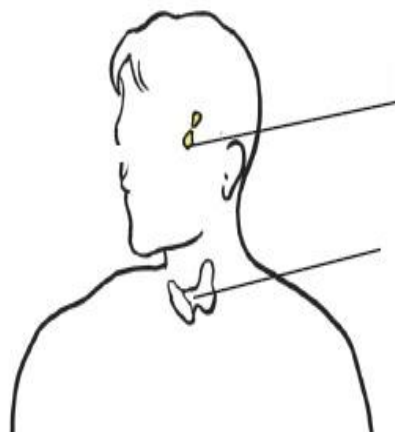


a. _____

b. _____

2

27.



Identify the endocrine glands located in the brain and neck. Name the hormone secreted by these glands and write its function.

2