

NEW AL WUROOD INTERNATIONAL SCHOOL, JEDDAH

Affiliated to CBSE – New Delhi, No:5730008



Pre-midterm Examination (2018 -2019)

SCIENCE X

Marks Allowed:03 Hours

Max.Marks: 80

General Instructions:

- (i) The question paper comprises two sections, A and B. You are to attempt both the sections.
- (ii) All questions are compulsory.
- (iii) All questions of Section-A and B are to be attempted separately.
- (iv) Question numbers 1 and 2 in Section-A are one mark question. They are to be answered in one word or in one sentence.
- (v) Question numbers 3 to 5 in Section- A are two marks questions. These are to be answered in 30 words each.
- (vi) Question numbers 6 to 15 in Section-A are three marks questions. These are to be answered in about 50 words each.
- (vii) Question numbers 16 to 21 in Section-A are 5 marks questions. These are to be answered in 70 words each
- (viii) Question numbers 22 to 27 in Section- B are based on practical skills. Each question is a two marks question. These are to be answered in brief.

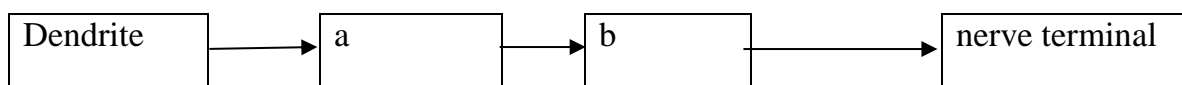
SECTION-A

1. What is dental caries? 1
2. Give an example of plant hormone that promotes growth. 1
3. What is washing Soda? State two properties and two uses of washing soda. 2
4. An object of height 1.2m is placed before a concave mirror of focal length 20cm so that a 2

real image is formed at a distance of 60cm from it. Find the position of an object. What will be the height of the image formed?

5. Define a) Pole b) Magnification 2
6. Why does aluminium not corrode right through? What is Anodizing? Why is it done? 3
7. Write the electronic dot structure of sodium and oxygen. Show the formation of sodium oxide by transfer of electrons. What are the ions present in it? 3
8. Explain chlor- alkali process .Write the equation evolved. Write two uses of the main product obtained from it 3
9. a) Which enzymes in pancreatic juice digest fats? 3
b) Where are the glands secreting intestinal juice located in our body?
c) What type of cells play role in opening and closing of stomata?
10. Name the hormones secreted by the following endocrine glands and specify one function of each. 3
(a) Gonads (b) pituitary (c) thyroid

11. Regular physical exercise for 45 minutes is advisable for normal functioning of human body. Comment upon the advantages of this statement/practice in daily life. 3
12. a) Name one gustatory receptor and one olfactory receptor present in human beings. 3
b) write a and b in the given flow chart of neuron through which information travels as an electrical impulse.



13. State Snell's law of refraction of light. Express it mathematically. Write the relationship between absolute refractive index of a medium and speed of light in vacuum. 3
14. A student has to project a three times magnified image of a candle flame on a wall. Name the type of the lens (converging/ diverging) required for the purpose. If the candle flame is at a distance of 6 m from the wall, find the focal length of the lens 3
15. Name the phenomenon responsible for the early sunrise and delayed sunset. Explain with the help of a diagram the reason why the sun is visible to us about 2 minutes before the actual sun-rise and about 2 minutes after the actual sunset. 3

16. What happens when manganese dioxide reacts with hydrochloric acid? Write down the equation and the substance oxidized and reduced and the oxidizing agent and reducing agent. 5
17. (a) Write two differences between metals and non-metals. 5
(b) Name a non-metal which conducts electricity.
(c) Name one metal which can be cut with knife.
(d) Name one metal each which can displace and cannot displace copper from copper sulphate solution.
(e) What special name can be given to zinc oxide ? Why?
18. a. (i) Draw a neat diagram of human brain and 5
(ii) Label Medulla and Cerebellum
(iii) Write the functions of the above mentioned parts
b. “ Both overproduction and underproduction of growth hormone leads to disorders in the body.” Explain.
19. a) Define Excretion. 5
b) Name the basic filtration unit present in the kidney.
c) Draw excretory system in human beings and label the following organs of excretory system which perform following functions:
(i) Form urine.
(ii) is a long tube which collects urine from kidney.
(iii) store urine until it is passed out.
20. (i) Which property of concave mirror is utilized for using them as shaving mirrors? 5
(ii) Light passes through a rectangular glass slab and through a triangular glass prism. Using proper ray diagram, explain in what way does the direction of the two emergent beams differs with respect to the incident beam of light.
(iii) A concave lens has a focal length of 50 cm Calculate its power.

21. Noopur needs a lens of power $-4.5D$ for correction of her vision. 5
- What kind of defect in vision is she suffering from?
 - What is the focal length and nature of the corrective lens?
 - Draw ray diagrams showing the
(a) defected eye and (b) correction for this defect.
 - What are the causes of this defect?

SECTION-B

22. (a) A strip of copper is placed in zinc sulphate solution. What is the change that observed in the reaction? 2
- (b) Which gas is liberated when sodium carbonate reacts with hydrochloric acid?
23. a) Why was the temporary stained mount of a leaf peel pinkish red under the microscope? 2
- b) Name the hormone which gives signals of closing of stomata.?
24. A student conducted an experiment to show that CO_2 is released during respiration. List two precautions he/she must take for correct observations.? 2
25. A student has focussed on the screen a distant building using a convex lens. If he has selected a blue coloured building as object, Give the nature of the image. 2
26. Draw a ray diagram to show the image formation of a distant object using a concave mirror. 2
27. An image of a distant object is displayed on a screen situated 25 cm away from the lens. Find the power of the lens. 2