

**Atomic Energy Education Society**

**Annual Examination – 2018-19**

No.of printed pages: 4

Class: VIII

Time : 3 Hours

Subject: Science

Marks : 80

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**To be filled by the student**

Student Name: \_\_\_\_\_

Name of the school: \_\_\_\_\_

Class/Sec.:\_\_\_\_\_ Roll No.:\_\_\_\_\_

Date of Examination:\_\_\_\_\_

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**General Instructions:**

1. The question paper consists of 40 questions in four sections. ALL QUESTIONS ARE COMPULSORY
  2. **Section-A** contains 20 questions of 1 mark each.
  3. **Section-B** contains 8 questions of 2 marks each.
  4. **Section-C** contains 8 questions of 3 marks each.
  5. **Section-D** contains 4 questions of 5 marks each.
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**SECTION- A**

**(1x20=20)**

**A. Choose the correct answer. Write only the answer against the correct question number in your answer sheet. Do not copy the question** **( 1 x 10 = 10)**

1. Mars has \_\_\_\_\_ natural satellites.  
a) 1      b) 2      c) 3      d) 10
2. \_\_\_\_\_ is not a non-contact force  
a) magnetic force    b) muscular force    c) gravitational force    d) electrostatic force
3. Ball bearings are used to convert static friction into \_\_\_\_\_.  
a) Drag      b) sliding friction    c) rolling friction    d) mechanical force
4. The Halley's comet is seen after every \_\_\_\_\_.  
a) 56 months    b) 56 years      c) 76 months      d) 76 years
5. What is the angle of incidence of a ray if the angle between the incident and reflected ray is  $120^{\circ}$ .  
a)  $30^{\circ}$       b)  $60^{\circ}$       c)  $120^{\circ}$       d)  $240^{\circ}$
6. The loudness of normal breathing of human is \_\_\_\_\_.  
a) 10 dB      b) 30 dB      c) 50dB      d) 60 dB
7. \_\_\_\_\_ is a bad conductor of electricity .  
a) Copper sulphate    b) silver nitrate    c) sulphuric acid    d) distilled water
8. When a glass rod is rubbed with a piece of silk cloth, the rod  
a) and the cloth both acquire positive charge.  
b) and the cloth both acquire negative charge.  
c) becomes positively charged while the cloth has negative charge.  
d) becomes negatively charged while the cloth has a positive charge.
9. Which of the following is not a source of air pollution?  
a) power plant    b) automobile exhaust    c) burning of dung cake    d) solar cooker
10. The force exerted per unit area is called \_\_\_\_\_.  
a) Pressure    b) magnitude    c) friction    d) work

**B. FILL IN THE BLANKS**

**(1 x 10= 10)**

11. Splitting of light into its colours is known as \_\_\_\_\_ of light.
12. \_\_\_\_\_ is the process of transferring of charge from a charged object to the earth.

13. \_\_\_\_\_ is known as morning or an evening star.
14. The pressure exerted by air around us is known as \_\_\_\_\_.
15. A night bird can see very well in the night but not during the day because its retina contains more \_\_\_\_\_ cells.
16. Water which is suitable for drinking is called \_\_\_\_\_.
17. The voice box is also called \_\_\_\_\_.
18. Grooves are made in the tyres of vehicles to \_\_\_\_\_ friction.
19. An electric lamp glows due to \_\_\_\_\_ effect of electric current
20. The maximum displacement of a vibrating body from its mean position is called \_\_\_\_\_.

**SECTION – B**

**(2 x 8 = 16)**

21. Why does horse require more force to start a tonga than to keep it moving (2)
22. State the laws of reflection. (2)
23. What is a constellation? Name any two constellations. (2)
24. Expand CFC. How does it affect the atmosphere ? (2)
25. The bob of a pendulum oscillates 30 times per minute. Find its time period and frequency. (2)
26. A child staying in a coastal region tests the drinking water and also the sea water with his tester. He finds that the compass needle deflects more in the case of sea water. Explain the reason? (2)
27. What happens when two people exert pressure from opposite directions? (2)
28. What is a lightning conductor? How does it protect the buildings? (2)

**SECTION – C**

**(3 x 8 = 24)**

29. Draw a diagram to show image formation in a plane mirror and answer the following questions. (2)
  - i) What is the size of the image of an object having 6 cm height? (½)
  - ii) What is the position of the image if the object is placed at 20 cm far away from the mirror. (½)
30. a) What are artificial satellites? (1)
  - b) Name the first Indian artificial satellite. (1)
  - c) Write any two uses of artificial satellite. (1)
31. Friction has both advantages and disadvantages. Explain. (3)
32. Write any 3 examples of situations in which applied force causes a change in the shape of an object. (3)
33. a) Name the stretched thin membrane of human ear. (1)
  - b) Explain the mechanism of hearing in man. (2)

34. Suppose you are at home and an earthquake strikes. What precautions would you take to protect yourself? (Write any three precautions.) (3)
35. a) Name any two greenhouse gases. (1)  
b) What is global warming ? (1)  
c) Write any two effects of global warming. (1)
36. Describe what happens when an electric current is passed through the conducting solution. (3)

**SECTION –D**

**( 5 x 4 =20)**

37. a) What is electroplating ? (1)  
b) Draw a simple circuit showing electroplating. (2)  
c) Write the advantages of electroplating. (2)
38. a) What is noise pollution ? (1)  
b) List any four major sources of noise pollution. (2)  
c) Explain in what way noise pollution is harmful to human. (2)
39. Draw a neat diagram of human eye and label the following parts  
a) cornea b) retina c) lens d) optic nerve (5)
40. a) During their educational trip from the school Karthik and his friends were taken to a textile factory. Karthik noticed that waste water from the factory was directly discharged into the nearby river. Karthik was very upset seeing this. So he decided to write a complaint to the local governing body.  
i. Write the harmful effects of releasing chemically contaminated water to the aquatic bodies. (2)  
ii. What values does Karthik display? (1)
- b) What is Ganga Action Plan? What is its aim? (2)

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