



**RAMAGYA SCHOOL, NOIDA**  
VII/SCIENCE/2017-18  
OLYMPIAD PRACTICE WORKSHEET

**1) Vacuum toilets are usually used in**

- a) Superfast trains                      b) cinema halls                      c) aeroplanes                      d) large ships

**2) One of the following type of trees are said to help in purifying wastewater quite rapidly when planted all along the sewage ponds. These are:**

- a) Peepal trees                      b) eucalyptus trees                      c) ficus trees                      d) neem trees

**3) The minimum amount of water recommended by the United Nations per person per day is:**

- a) 25 L                      b) 50 L                      c) 75L                      d) 40 L

**4) Which of the following does not deplete the water table at a place?**

- a) Increasing number of tube wells                      b) increasing deforestation  
c) Scanty rainfall                      d) increasing snowfall

**5) A diverging mirror is:**

- a) a plane mirror                      b) a shaving mirror                      c) a concave mirror                      d) a convex mirror

**6) The image formed by a concave mirror is seen to be virtual, erect and larger than the object. The position of object must then be:**

- a) between focal length and twice the focal length  
b) beyond the focus  
c) within its focus  
d) greater than twice the focal length

**7) A concave mirror has a focal length of 10 cm. At which of the following distance should an object be placed so that it may form virtual, erect and magnified image?**

- a) 12 cm                      b) 25 cm                      c) 8 cm                      d) 15 cm

**8) Which of the following does not work on the heating effect of current?**

- a) Electric bulb                      b) miniature circuit breaker                      c) electric fuse                      d) immersion rod

**9) The 'element' of an electric iron is made of:**

- a) Iron                      b) nickel                      c) nichrome                      d) tungsten

**11) The sound produced in a door bell is due to the:**

- a) Chemical effect of current                      b) heating effect of current  
c) Magnetic effect of current                      d) lighting effect of current

**12) The speed of a moving object is determined to be 0.06m/s. This speed is equal to:**

- a) 2.16km/h                      b) 1.08km/h                      c) 0.216km/h                      d) 0.0216km/h

**13) The slope of a distance time graph of a moving object indicates:**

- a) Distance moved by the object                      b) time taken by the object  
c) Speed of the object                      d) position of the object

**14) Which of the following is the most appropriate to demonstrate the runs scored in the various overs of a cricket match?**

- a) time graph                      b) bar graph                      c) pie chart                      d) line graph

**15) Which blood vessel does not carry any carbon dioxide?**

- a) Pulmonary artery                      b) vena cava                      c) hepatic vein                      d) pulmonary vein

**16) The wave of expansion of an artery when blood is forced into it is called:**

- a) Flow                      b) heartbeat                      c) pulse                      d) ticking

**17) Which of the following is most likely to have a much higher breathing rate?**

- a) Man                      b) dog                      c) sparrow                      d) fish

**18) Which of the following has haemoglobin containing blood?**

- a) Grasshopper                      b) cockroach                      c) goose                      d) wasp

**19) Which of the following region is more vulnerable to cyclonic storms?**

- a) Northern hills of India                      b) western deserts of India  
c) East coast of India                      d) west coast of India

**20) During a wind storm, when high speed winds blow over the tin roofs of houses, the tin roofs get lifted and blown away. This happen because:**

- a) High speed winds reduce air pressure over the tin roofs  
b) High speed winds increase air pressure over the tin roofs  
c) High speed winds do not change air pressure over the tin roofs  
d) Higher air pressure acts from below the tin roofs  
(i) A & B                      (ii) B & C                      (iii) A & D                      (iv) only

**21) Which of the following does not live in tropical rainforests?**

- a) Leopard                      b) gorilla                      c) reindeer                      d) lizard

**22) If the region of a country is nearer to the equator, it will have a:**

- a) Temperate climate                      b) polar climate                      c) desert climate                      d) tropical climate

**23) The mammal which is known to migrate seasonally in search of favourable climatic conditions and food is:**

- a) Siberian crane      b) reindeer      c) African elephant      d) toucan

**24) Which of the following is a mineral acid?**

- a) Citric acid      b) acetic acid      c) carbonic acid      d) oxalic acid

**25) Which indicator will produce a pink colour on adding a few drops of sodium hydroxide solution?**

- a) Blue litmus      b) phenolphthalein      c) turmeric paper      d) china rose indicator

**26) The dilute solutions of which of the following are not harmful to drink?**

- a) Magnesium hydroxide      b) potassium hydroxide  
c) Sodium hydrogencarbonate      d) sodium carbonate

**27) Which of the following does not cause acid rain?**

- a) Sulphur dioxide      b) carbon monoxide      c) carbon dioxide      d) nitrogen dioxide