



DELHI PUBLIC SCHOOL, RANCHI
ANNUAL EXAMINATION (2016-17)

Class: VIII
Time: 3hr.

Subject: General Science
M.M: 90

PHYSICS

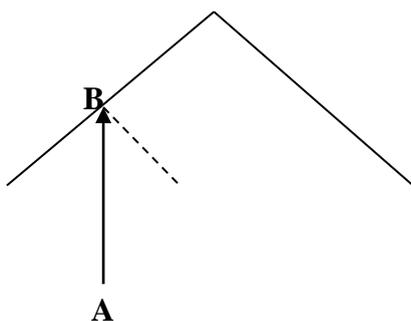
1. The intensity of an earthquake is measured on the
(a) seismic scale (b) Richter scale
(c) kelvin scale (d) mercury scale [1]
2. Sound travels
(a) the fastest in air (b) the fastest in vacuum
(c) faster in air than water (d) the fastest in solid [1]
3. The shape of milky way galaxy is
(a) elliptical (b) spiral
(c) ring (d) none of these [1]
4. Write function of (i) ciliary muscles (ii) retina in human eye. [1]
5. Does pure water conduct electricity? If not what can we do to make it conducting? [1]
6. Name the device used to protect our buildings from lightning? How does it function?
Show by drawing figure. [$\frac{1}{2}+1+\frac{1}{2}=2$]
7. Draw the wave forms of (i) soft sound and loud sound
(ii) low pitched sound and high pitched sound [1+1=2]
8. Name two (i) dwarf planet (ii) constellation [1+1=2]
9. What is the advantage of using LED in testing the electrical conductivity in liquids?
Write full form of LED. [1+1=2]
10. Reena started an awareness campaign in her neighbourhood not to burst
crackers or use loudspeakers during festivals. She also tried to convince them to turn
down the volume of their TVs and music systems during the operation.
(i) How noise pollution is harmful for us?
(ii) What is the measuring scale is used to measure the loudness of sound?
(iii) Write two moral values shown by Reena? [1+1+1=3]
11. How would you use an electroscope to determine the nature of the a charge on a
charged body? Explain with the help of diagram. [3]
12. (i) In which bodies are meteorite craters more commonly found and why?
(ii) What is source of energy in the stars?
(iii) What is light year? Is it unit of time or distance? [1+1+1=3]

13. What is electroplating? How is it used in refining impure copper? [1+2=3]
14. State the laws of reflection. Explain an activity to verify the laws of reflection. [1+3+1=5]
State two differences between regular reflection and irregular reflection.

OR

Draw the ray diagram to show formation of image by plane mirror. Also state the characteristics of the image. [2+1+2]

In the given figure AB is the incident ray, show the direction of reflected ray by from each plane mirror



CHEMISTRY

1. Why is petroleum called black gold? [1]
2. Uniforms of firemen are made up of: [1]
(a) Polyester
(b) Acrylic
(c) Melamine
3. Teflon is used for making: [1]
(a) Electrical switches
(b) Non stick coating on cookwares
(c) Ropes
4. Bakelite is used for making: [1]
a) Toys
b) Electrical switches
c) Floor tiles
5. How is coal gas obtained? What is it used for? [1+1=2]
6. What are inflammable substances? Give two examples of inflammable substances. [1+1=2]
7. How is Carbon Monoxide formed? Name the compound formed with the haemoglobin of the blood during Carbon Monoxide poisoning? [1+1=2]
8. Write any three advantages of polyester and acrylic as a fabric? [1+1+1=3]
9. Complete the following table : [1+1+1=3]

Constituents of petroleum	Uses (Any two)
(a) Bitumen	_____
(b) Paraffin Wax	_____
(c) Petrol	_____

10. Carbon Dioxide is the best extinguisher for fires involving electrical equipment. Give three reasons. [1+1+1=3]
11. Describe the three different zones of a candle flame with the help of a well labeled diagram. [3]
12. Why does the increasing level of nutrients in water affect the survival of aquatic organisms? [3]
13. Describe the threat to the beauty of the Taj Mahal. [5]

OR

Write short notes on the following: [1x5=5]

- a) Green house effect.
- b) Smog.
- c) Water pollutants.
- d) Chlorofluoro carbons.
- e) Ganga action plan 1985.

BIOLOGY

1. Answer the following in 10-20- words. [1X5=5]
- (a) What is the basic difference between an animal cell and a plant cell?
 - (b) Why do frogs lay a number of eggs?
 - (c) Why pituitary is called the master gland?
 - (d) Why milk is boiled and cooled suddenly before packing it?
 - (e) What are endemic species?
2. Answer the following in 20-30 words. [2X4=8]
- (a) Draw a well labelled diagram of female reproductive system.
 - (b) What are secondary sexual characters ? Write any two secondary sexual characters in boys.
 - (c) Name the cell organelle and its function .
 - (i) Kitchen of the cell
 - (ii) Power house of the cell
 - (d) List the various benefits of using manure ? (4 points)
3. Answer in 30-40 words. [3X4=12]
- (a) What is desertification? Write any four consequences of deforestation.
 - (b) Write any four uses of microbes and any two harmful effects of it.
 - (c) Write any three difference between prokaryotes and eukaryotes.
 - (d) Draw a diagram showing human sperm fertilizing an ova. Write one difference between internal and external fertilization ?

- 4. Answer in 60-70 words. [1X5=5]**
- (a) What are endocrine glands? [1]
- (b) Name any two sex hormones . [1]
- (c) Name the hormone released and their functions from the [3]
following endocrine glands
- (i) Thyroid gland
- (ii) Pancreas
- (iii) Adrenal

OR

- (a) Define adolescence. [1]
- (b) Write a difference between menopause and menarche. [1]
- (c) What are sex chromosomes? [1]
- (d) Explain sex determination in humans with the help of a [2]
flowchart.