

Year End Examination - 2015

SCIENCE

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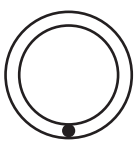
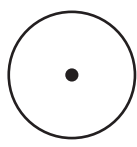
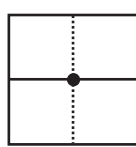
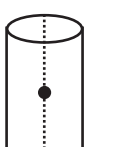
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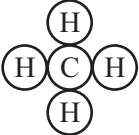


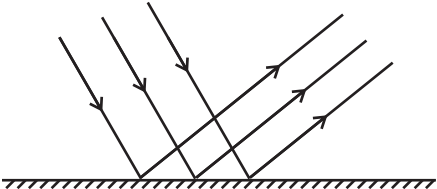
Time: 02 Hours

Name/ Index No.

PART - I

• Answer all the questions.

- 01 Even though this body of water is connected to the sea, it is permanently separated from the sea and it has salinity or brackish water. What is it?
(1) Lagoon (2) Estuary (3) Island (4) Delta
- 02 The example for a mountain forest is,
(1) Kanneliya (2) Samanala (3) Sinharaja (4) Kithulgala
- 03 What is the highly poisonous snake in Sri Lanka?
(1) Polon telissa (2) Kunakatuwa (3) Cobra (4) Garandiya
- 04 An answer which is in the order of solid, liquid and gas is,
(1) Iron, Oxygen, Water (2) Copper, Iron, Water
(3) Copper, Water, Oxygen (4) Oxygen, Water, Iron
- 05 The symbol that the copper is denoted by,
(1) Cl (2) CO (3) Cr (4) Cu
- 06 Select the animal who do not show the complete metamorphosis,
(1) Butterfly (2) Cockroach (3) Fly (4) Mosquito
- 07 A gas with the largest percentage in the atmosphere is,
(1) Oxygen (2) Hydrogen (3) Nitrogen (4) Helium
- 08 Select the non magnetic substance,
(1) Steel (2) Aluminium (3) Iron (4) Cobolt
- 09 Find the pressure that is exerted if a 8000N force acts on 8m^2 area,
(1) 1000Pa (2) 800Pa (3) 1600Pa (4) 6400Pa
- 10 An energy source that is non-renewable is,
(1) Mineral oil (2) Sunlight (3) Ocean Waves (4) Wind
- 11 Following diagrams show the centre of gravity in some objects. Select which one is incorrect among them.
- (1)  (2)  (3)  (4) 
- 12 Select the non luminous object,
(1) Firefly (2) Sun (3) Lighting bulb (4) Moon


- 13 What is the homo-atomic molecule from the given below,
- (1)  (2)  (3)  (4) 
- 14 Is a mineral which is not present in pyrites or iron ore,
- (1) Hematite (2) Ilmonite (3) Limonite (4) Magnetite
- 15 What is the root type which have the possibility of absorbing water from the atmosphere,
- (1) Prop roots (2) Stilt roots (3) Aerial roots (4) Respiratory roots
- 16 The diagram shows,
- (1) Scattered reflection
(2) refraction
(3) Regular reflection
(4) Divergence
- 
- 17 Is not a cultivation method coming under controlled Environmental Argulature,
- (1) Green house cultivation (2) Hydroponics
(3) Mushroom cultivation (4) Coconut cultivation.
- 18 Who was the scientist that found that messages can be transmitted along wires using electronic signal and get it down on paper using a code system.
- (1) Louis Brail (2) Alexander Graham Bell
(3) Samuel Morse (4) Benjamin Franklin
- 19 A mosquito species which spreads filaria is,
- (1) Anopheles (2) Culex (3) Aedes (4) All the above
- 20 The lightning type that most threat takes place,
- (1) Earth lightning (2) Inter cloud flash (3) Intra cloud flash (4) Cannot say

PART - II

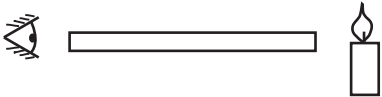
- **First question is compulsory and answer four more questions.**

01 You and your group was assign to conduct a conference regarding the properties of light and their uses.

- What is the topic you have selected to conduct the conference.
- Give two resources that you used to find information.
- Give two problems that arose while arranging the conference.
- Give two qualities developed within students by conducting the conference.
- A



B

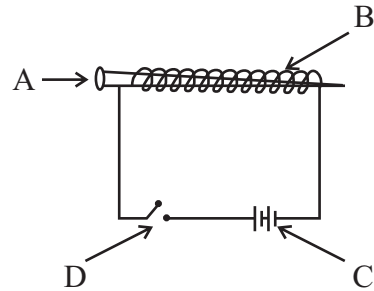


Give the observations you get in A and B.

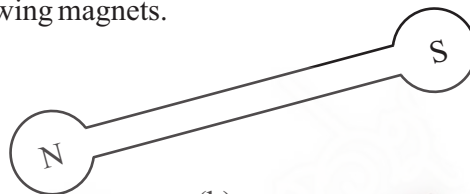
- (vi) What is your conclusion according to the observation you get in A and B.
- (vii) Name the two main methods of Reflection.
- (viii) Give two uses of reflection of light in day to day life.
- (ix) What is refraction of light ? Explain briefly.

02 Following diagram demonstrate an electro magnet made by a student.

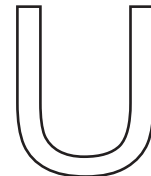
- (i) Name the parts A, B, C and D.
- (ii) Give a difference between an electro magnet and a permanent magnet.
- (iii) How can you increase the magnetic power of this electro magnet ? Give one method.
- (iv) Write one use of an electro magnet.
- (v) Give the names of the following magnets.



(a)



(b)



(c)

- (vi) Give two methods of loosing the magnetic power of permanent magnets.
 - (vii) Give two uses of permanent magnets.
- 03
- (i) State two characteristic for each of the forest type mentioned below.
 - (a) Wet evergreen forest.
 - (b) Mountain forest.
 - (ii) Write four advantages of the forest.
 - Snakes can be seen abundantly in Sri Lanka. Some of them are highly poisonous.
 - (iii) Write two places where snakes gather together in the environment.
 - (iv) What should not be done when a snake bites? Give two things.
 - (v) Write two things that you should do to prevent from snake bites.
 - (vi) Name two animals which are poisonous other than the snakes.
 - (vii) Why there must be poisonous animals live in the environment.
- 04 Some animals have different morphological forms from birth to adult.
- (i) Illustrate the life cycle of butterfly.
 - (ii) What is the name given for such order of changes observed in life cycle.
 - (iii) What is the importance of showing different morphological forms within the life cycle of an animal. Give two reasons.
 - "Even though the mosquito is a small insect, it spreads diseases to other animals."
 - (iv) Name two diseases spread by the mosquito.

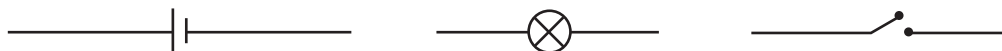
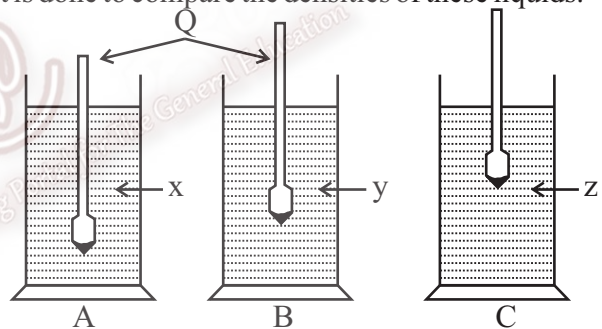
- (v) State one special characteristics for each of the diseases mentioned above.
- (vi) Mention a biological controlling method and a chemical controlling method of mosquitoes.
- (vii) Write two things that you can do to avoid the spread of mosquitoes.

05 Minerals and rocks are natural resources that can be obtained from the earth.

- (i) What are two main differences between minerals and rocks?
- (ii) Write four mineral resources in our country.
- (iii) Mention the three types of clay that are used in the manufacturing of clay products.
 - Atmosphere is a protective layer of gases which cover the earth. There are many important functions provided by the atmosphere.
- (iv) Name the man layers of the atmosphere.
- (v) Write two factors that affect the change in the optimum composition of the atmosphere.
- (vi) Write two actions that can be taken to protect the optimum composition of the atmosphere.

06 X, Y and Z are 3 liquids. Above experiment is done to compare the densities of these liquids.

- (i) What is density?
- (ii) What is the equipment Q?
- (iii) Which liquid is having the highest density?
- (iv) Which liquid is having the lowest density?
- (v) If the X, Y and Z liquids are immiscible draw a diagram to show the positions of these three liquids.
- (vi) Name the symbols given above.



- (vii) You have provided 2 cells, 2 bulbs and a switch. Prepare a circuit as even if the one bulb gets burnt the other bulb get extinguish and as to get maximum current from cells.

- 07
- (i) What is a cyclone?
 - (ii) Name the type of cyclone that affect our country.
 - (iii) State the place where cyclone starts.
 - (iv) If notice has been given before a cyclone write 03 activities to be done.
 - (v) Name the parts A, B, C and D.
 - (vi) Mention 02 protective steps that should be followed when there is a rain with lighting.

