Bihar Judicial Service (Mains) 2018

Elementary General Science · compulsory paper

Time: 3 hours · Full marks: 100

There are five Sections in the question paper. Answer one question from each Section

Section A

1. Define the following: (2×10 = 20 Marks)

a. AIDS
b. Greenhouse Effect
c. Ageing
d. Test-Tube Baby
e. Radar
f. Clone
g. Gene Therapy
h. Computer Virus
i. Misrage
j. Parasitic plant

2. Differentiate between the following: (2×10 = 20 Marks)

a. Type I and Type II error in statistics
b. X-rays and y-rays
c. GSM and CDMA
d. Butter and Margarine
e. In invo and In intro technique
f. Stain and Dye
g. National Parle and Sanctuary
h. CNG and LPG
i. Bone and Cartilage
j. RAM and ROM (Computer)

Section B

3. Answer the following questions: (2×10 = 20 Marks)

a. Why the colour of the Red Sea is red?
b. What is e-learning?
c. Why is it easier to stand on two legs than on one leg?
d. What is meant by half-life of a radioactive element?
e. What is grain alcohol and why is it so called?
f. What blood group is universal donor and which is universal acceptor and why?
g. What are the pollutants of automobile exhaust?
h. List any five mammals of the wildlife of India that are being conserved.
i. Why do leaves appear green?
j. Can you drink heavy water?

4. Give reasons of the following: (4×5 = 20 Marks)

i. Blood is red in colour

ii. Pulse rate be taken on an artery and not on a vein
iii. Stomach does not digest itself by its secretions
iv. Earthing in an electric network
v. Prawn is not a fish

Section C

5. Write a brief answer to the following: (4×5 = 20 Marks)
a. What is a cork?
b. Which wood is used to make pencil?
c. What is a computer mouse?
d. What is dry ice?
e. What is measured by potometer?

6. Fill in the blanks: (2×10 = 20 Marks)
a. Insulin is secreted by ..... cells of the islets of Langerhans.
b. Removal of testis is called .....
c. The ..... electron microscope is used to view the surfaces of cells.
d. By default, when you open Microsoft Word 2010, it shows you the tab .....
e. Type of ..... graph shows parts out of a whole.
f. A ..... is used to measure atmospheric pressure.
g. The alkaloid that contains in cola drinks is .....
h. ..... chemical is added to make toothpastes white.
i. That anti-malarial drug Quinine is made from a plant. The plant is .....
j. The chemical name of baking soda is .....

Section D

7. Name the scientists who discovered the following: (2×10 = 20 Marks)
a. DNA fingerprinting
b. Antibiotic (Penicillin)
c. Blood groups A, B and O
d. Fountain pen
e. Vitamin
f. Ultracentrifuge
g. y-ray
h. Stethoscope
i. Dynamite
j. Radium

8. Explain the following: (4×5 = 20 Marks)
a. Gold does not get rust
b. Sky is blue in colour
c. A drop of liquid water tends to be round in shape
d. Salt is added in excess to pickles
e. It is difficult to breathe at the top of a high mountain

Section E

9. Why do we: (4×5 = 20 Marks)

a. Sneeze

b. take antibiotics

c. use stainless steel in the kitchen;

d. apply washers with screws;

e. add spices to our food?

10. What happens, when: (4×5 = 20 Marks)

a. acid is added to water

b. you touch mercury

c. sugar is heated

d. you climb a mountain

e. milk is converted into curd?

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