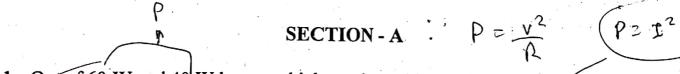
## R. C. B. S. E.

# FIRST PRE BOARD EXAMINATION 2018-19 SCIENCE

MARKS: 50 TIME: 2 HRS.

#### General Instructions.

- 1. This question paper comprises of four sections Section-A, Section-B, Section-C and Section-D. You are to attempt all the sections.
- 2. All questions are compulsory.
- 3. All questions of Section-A, Section-B, Section-C and Section-D are to be attempted separately.
- 4. Question number 1 and 2 in Section A is one mark question. These are to be answered in one word or one sentence.
- 5. Question numbers 3 to 5 in Section B are two mark questions. These are to be answered in about 30 words each. Whereas question numbers 6 to 11 in Section B are based on practical skills. These carry two marks each.
- 6. Question numbers 12 to 16 of Section C are three mark questions. These are to be answered in about 50 words each.
- 7. Question numbers 17 to 19 of Section D are five mark questions. These are to be answered in about 70 words each.



- 1. Out of 60 W and 40 W lamps, which one has a higher electrical resistance when in use?
- 2. What is the role of decomposers in the ecosystem? [1]

### **SECTION - B**

3. An electrical bulb is rated as 50W, 220 V. Calculate the energy consumed by the bulb in 20 minutes. Express your answer in commercial unit of 770 - VXI electric energy. [2]

4. What is electromagnetic induction? :[2]

- 5. "Burning fossil fuels is a cause of global warming." Justify this statement. [2]
- 9+ releases acidic substantial 6. What is geothermal energy? P
- For the same angle of incidence in media, P, Q and R, the angles of refraction are 45°, 35° and 15° espectively. In which medium will the velocity of light be minimum? Give reason for your answer. [2]

[1]

#### **SECTION - D**

A person's image when seen through a stream of hot air arising above to hot steam a fire disperses to waver. Explain. I due to change in R.I. du [5] ii) Define dispersion. How does a prism disperse white light? 18.i) The molecular formula of 2 carbon compound are C<sub>4</sub>H<sub>8</sub> and C<sub>3</sub>H<sub>8</sub>. Which one of the two is most likely to show addition reaction? Justify your answer, also give chemical equation to explain the process of addition reaction in the case. [5]

ji) Write the mechanism of cleansing action of soap

19.a) Draw a diagram of human female reproductive system and label the parts.

that produces egg fight

M) where fusion of egg and sperm take place UKros

ィii) where zygote is implanted りいんしょ

iv) birth canal yaqina

b) What happens to human egg when it is not fertilized?

[5]