

# Punjab Board Class 10 Science Question Paper 2016 Set-5B

SS

05/B

1036

ANNUAL EXAMINATION SYSTEM

SCIENCE (Theory)

Time allowed: 3 Hours

Maximum Marks:50

## Part-A

All questions are compulsory. Each question carries 1 mark.

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|----|--|---|
| 1. | Define main focus of Convex Lens:                            | 1 |
| 2. | Write full form of INSAT.                                    | 1 |
| 3. | Write chemical name and formula of Baking Soda.              | 1 |
| 4. | Write the names of respiratory organs of fish and cockroach. | 1 |
| 5. | What do you mean by Homeostasis ?                            | 1 |

## Part-B

Questions are compulsory. Each question carries 2 marks.

- |     |  |   |
|-----|--|---|
| 6.  | What is the function of ciliary muscles and optic nerves of Human Eye ?  | 2 |
| 7.  | Three resistances of two ohm ( $2\Omega$ ) each are connected in series. Find their combined resistance.   | 2 |
| 8.  | What is an Exothermic Reaction ? Explain with an example.  | 2 |
| 9.  | Complete the Equations :<br>(i) $\text{H}_2\text{S}_2\text{O}_7 + \text{H}_2\text{O} \rightarrow$<br>(ii) $\text{CH}_3\text{COOH} + \text{Na} \rightarrow$ | 2 |
| 10. | Write four functions of Human Kidneys.   | 2 |
| 11. | What is Asexual reproduction ? Write any two of its types.   | 2 |

## Part-C

All questions are compulsory. Each question carries 3 marks.

- |     |  |   |
|-----|--|---|
| 12. | What is Mirror formula ? Write mirror formula with the help of symbols. What is focal length of plane mirror ?             | 3 |
| 13. | What is Ozone Layer ? What are harmful effects of loss of ozone layer?   | 3 |
| 14. | Explain with the help of labelled diagram, the extraction of Sulphur by Frasch Process                                     | 3 |
| 15. | What are harmful effects of drinking alcohol to our health ?   | 3 |
| 16. | How many blood groups are in Human beings ? Which are Universal donor and Universal recipient blood groups ? Give reasons. | 3 |
| 17. | What is Soil Erosion ? Write four adverse effects of Soil erosion.   | 3 |

## Part-D

- |     |  |   |
|-----|--|---|
| 18. | Explain the principle construction and working of Floating Gas Holder type Biogas plant with the help of a neat labelled diagram. Name two main gases in Biogas. | 5 |
|-----|--|---|

**Or**

Explain the principle, construction and working of A D.C. Motor with the help of labelled diagram. **5**

**19.** Explain the condition for Rusting of iron with the help of diagram. Write two measures to prevent rusting. **5**

**Or**

What factors affect the rate of chemical reaction ? Explain by give two example.

**20.** Explain various parts of Human Digestive System with the help of labeled diagram **5**

**Or**

What are Chromosomes ? Explain various types of chromosom according to position of centromere. Also draw diagram. **5**