

**PUNJAB BOARD CLASS 10 SCIENCE (A)  
PREVIOUS YEAR QUESTION PAPER- 2017**

Total No. of Questions : 21]

[Total No. of Printed Pages : 7

X

2037

ਸਲਾਨਾ ਪਰੀਖਿਆ ਪ੍ਰਣਾਲੀ  
SCIENCE (Theory)

**(Morning Session)**

Time allowed : Three hours

Maximum marks : 50

**(English Version)**

- Note : (i) You must write the subject-code / paper-code 05/A in the box provided on the title page of your answer-book.*
- (ii) Make sure that the answer-book contains 26 pages (including title page) and are properly serialied as soon as you receive it.*
- (iii) Question/s attempted after leaving blank page/s in the answer-book would not be evaluated.*
- (iv) All questions are compulsory.*
- (v) Question paper is divided into four parts i.e. Part-A, B, C and D.*
- (vi) Questions of 1-1 mark each should be answered in approximately 10-15 words, 2-2 marks should be answered in approximately 30-40 words, 3-3 marks should be answered in approximately 50-60 words and 5-5 marks should be answered in approximately 100-120 words.*
- (vii) Draw also neat and labelled diagrams wherever necessary.*

**Part-A**

**Marks = 7**

1. Define main focus of a convex lens. 1
2. Write symbols for a Electric cell and wire crossing without joining.  $\frac{1}{2} + \frac{1}{2} = 1$

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( 6 )

- |   |       |
|---|-------|
| 3. What do all acids and bases have in common ? | ½+½=1 |
| 4. Define malleability.                         | 1     |
| 5. Define autotrophic nutrition.                | 1     |
| 6. What are fossils ?                           | 1     |
| 7. What are biodegradable wastes ?              | 1     |

**Part-B**

Marks = 10

- |  |       |
|--|-------|
| 8. $6\Omega$ , $8\Omega$ and $10\Omega$ resistances are connected in series. Find total resistance of the circuit.       | 2     |
| 9. Why is Sodium stored under kerosine ?   | 2     |
| 10. How do metallic character and valency of elements change in a period moving left to right in modern periodic table ? | 2     |
| 11. What are dental caries ? How are they caused ?   | 1+1=2 |
| 12. Why is the depletion of ozone layer a matter of concern for us ? What steps have been taken to minimise it ?         | 2     |

**Part-C**

Marks = 18

- |   |         |
|---|---------|
| 13. What is a wind mill ? Write its advantages.   | 1+2=3   |
| 14. Explain Fleming's left hand rule with the help of labelled diagram.                                       | 2+1=3   |
| 15. Write chemical formula of Plaster of Paris (POP) and its advantages also.                                 | 1+2=3   |
| 16. Write balanced chemical equation with the help of chemical symbols and formulas for following reactions : | 1+1+1=3 |
| (i) Zinc + Silver nitrate $\longrightarrow$ Zinc nitrate + Silver   |         |
| (ii) Copper oxide + Hydrogen $\longrightarrow$ Copper + Water   |         |
| (iii) Barium chloride + Aluminium sulphate $\longrightarrow$ Barium sulphate + Aluminium chloride             |         |
| 17. Draw a labelled diagram of internal structure of human heart.   | 2+1=3   |
| 18. How is short sightedness (Myopia) caused ? How it can be corrected ? Explain with diagram.                | 1+1+1=3 |

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**Part-D**

Marks = 15

19. Write characteristics of an ideal fuel. 5

or

With the help of a labelled diagram explain principle, construction and working of an electric generator (Dynamo). 5

20. What is an acid ? Write four properties of acids by giving examples. 1+4=5

or

Write three chemical properties of Ethanol. Why is it used as a fuel ? 3+2=5

21. What changes occur among boys and girls during adolescence ? 5

or

What changes can you suggest to make your house eco-friendly ? 5