

QP Code : U24A021

Reg. No :

Name :

ST MARY'S COLLEGE (AUTONOMOUS), THRISSUR-20

I SEMESTER B A/B Sc /B Com/BBA/BCA/BSW (FYUGP) DEGREE EXAMINATION,

November 2024

PHY1FM105 : Physics in Daily Life

2024 Admission Onwards

(Credits: 3)

Time : 1.5 Hours

Maximum Marks : 50

Section A

[Answer All. Each question carries 2 Marks] (Ceiling: 16 Marks)

1. What is the principle of electric heater ? [BTL1]
2. Distinguish between vertical fridges and horizontal fridges. [BTL2]
3. Why Freon is banned in a refrigerator? [BTL3]
4. What is meant by sidespin ? [BTL2]
5. How does the seam of the ball help the bowler in cricket ? [BTL4]
6. How does the characteristics of the sweet spot on a cricket bat affect the performance of different shots? [BTL4]
7. Distinguish between the throw-in and Goalkeeper's throw. [BTL2]
8. Illustrate the situations in which ball is kicked at high speed in football. [BTL3]
9. Describe the working of spring scale. [BTL2]
10. Short pendulum swings more often than a long one. Why? [BTL5]

Section B

[Answer All. Each question carries 6 Marks] (Ceiling: 24 Marks)

11. Why smell and smoke persists in kitchen? How fresh air fan remove this? [BTL4]
12. Illustrate the working of induction cooktop. [BTL3]
13. Compare the behavior of a cricket ball on different pitch. [BTL3]
14. How are the Hard shots made in football? [BTL4]
15. Explain the working of a pendulum. [BTL1]

Turn Over

Section C

[Answer any one. Each question carries 10 Marks] (1x10=10 Marks)

16. Explain the working of a refrigerator. [BTL2]

17. Explain the structure of a cricket ball and how does the seam of the ball help the bowler in cricket ? [BTL2]

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