1857

23129209

QP CODE: 23129209

Reg No : .....

Name : .....

UNDER GRADUATE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, OCTOBER 2023

Fifth Semester

(Offered by the Board of Studies in Physics)

OPEN COURSE - PH5OPT02 - PHYSICS IN DAILY LIFE

2017 Admission Onwards

C7B5E252

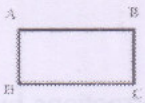
Time: 3 Hours Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What is the dimensional representation of velocity?
2. What is the order of magnitude of a) 367 and b) 6748?
3. What are the laws of reflection?
4. What is the reason for blue colour of sky?
5. A man walks 4meters along AB and then 3meters along BC to reach from A to C. Calculate his displacement and distance travelled.



6. How do Physicist measure inertia?
7. Define acceleration due to gravity.
8. What is the unit of Electric charge?
9. Convert 300 degree Kelvin to degree Fahrenheit.
10. What is the unit of loudness of sound ?
11. It is quite dangerous to dance on a floor illuminated with class 3 lasers. Explain Why?
12. Can lunar eclipse occur in day time? Why?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. How rainbows are formed?
14. Distinguish between concave and convex mirrors.
15. What is focal length of a lens? Give the expression for focal length of a lens in terms of refractive index of the lens and radius of curvature of the lens.
16. Why does sparks comming out tangentially from the grid stone when kinfe aor any other such objects are sharpened?
17. For a vehicle to have a safe turning at a reasonable speed on road banking is necessary. Why?
18. How much electrical energy will be consumed by a motor of 1HP if used for an hour?
19. Our farmers plough fields before summer to reduce the evaporation of groundwater. What is the science behind it?
20. Write down the name of the planets in the solar system in the increasing order of their distance from the Sun.
21. What do you understand by the term constellation? Give two examples.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Write note on any three defects of human eye and give their corrections by lens.
23. With a neat diagram explain hydroelectric power generation. What are its merits and demerits?
24. State Bernoulli's theorem and derive Bernoulli's equation.
25. Explain the importance of artificial satellites in our modern life.

(2×15=30)