



**QP CODE: 22101790**

**Reg No** : .....

**Name** : .....

**UNDER GRADUATE (CBCS) SPECIAL SUPPLEMENTARY EXAMINATIONS,  
MAY 2022**

**Fifth Semester**

(Offered by the Board of Studies in Physics )

**OPEN COURSE - PH5OPT02 - PHYSICS IN DAILY LIFE**

2019 Admission Only

5971FD CD

Time: 3 Hours

Max. Marks : 80

**Part A**

*Answer any **ten** questions.*

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

1. What is the SI unit of plane angle?
2. What is Snell's law in refraction of light?
3. What is the reason for sparking of diamond?
4. What is the unit of optical power of a lens?
5. If I have to reach a destination at 4Km away with 5minutes, What should be my speed in Km/hr? (Assume the path is a straight line and can have a smooth drive)
6. Distinguish between weight and mass.
7. What is the name of the instrument we use to measure Electric current?
8. What is the voltage and frequency of the domestic power supply in India?
9. The surface tension of a liquid is independent of the area of the liquid surface. Why?
10. What is fluorescence?
11. Generally glass utensils are used for baking food in a Microwave oven. Why?
12. What do you understand by the term Red Giant?

(10×2=20)





### Part B

Answer any **six** questions.

Each question carries **5** marks.

13. How can we calculate error in the case of addition and subtraction of two measurements?
14. Why we use red colour for traffic signals?
15. Distinguish between concave and convex mirrors.
16. In a tug of war, if each party experiences an equal but opposite reaction to the force they apply on the each side of the rope then how can a party win the war?
17. Explain the term Torque.
18. Distinguish between centripetal force and centrifugal force.
19. Express the boiling point of water in Degree Kelvin, degree Celsius and degree Fahrenheit.
20. List some situations where we make use of Doppler effect.
21. Why is Pluto no longer a planet?

(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. What are the different Power generation techniques known to us? Write a short note on each of it bringing out its principle , merits and demerits.
24. With a neat diagram explain how lunar and solar eclipse occurs.
25. What is GPS? Explain How is it achieved?

(2×15=30)

