QP CODE: 22100041

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Reg No : .....

Name : .....

UNDER GRADUATE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, JANUARY 2022

Fifth Semester

(Offered by the Board of Studies in Physics)

OPEN COURSE - PH5OPT02 - PHYSICS IN DAILY LIFE

2017 Admission Onwards

C56D0584

Time: 3 Hours Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. What do you mean by absolute error?
2. What do you mean by refraction of light?
3. Which type of mirror is used as rear view mirror in motor vehicle?
4. Explain focal length of a lens.
5. What do you understand by the term acceleration?
6. State the law of motion involved in the working of a rocket .
7. Why do we place handles at maximum possible distance from the hinges in a door ?
8. What is meant by Banking of Curves?
9. State different phases of water you see in your daily life.
10. What is infrasonic Sound?
11. What is superconductivity?
12. Jupiter contains the Great Red Spot, an area in the clouds of this huge planet big enough to fit at least two Earths across it. Exactly, what is the Great Red Spot?

(10×2=20)

Part B

*Answer any **six** questions.*

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

13. Distinguish between fundamental quantities and derived quantities with example.
14. Why we use red colour for traffic signals?
15. How rainbows are formed?
16. Two objects having the same mass on the Earth is taken to moon.On the surface of the moon will they have same mass or same weight? Explain your answer
17. What is Ohm's law?
18. A transformer has 2300 winding in primary and 100 winding's in secondary. If a voltage of 230 V ac is aplied to the primary, how much voltage do you expect at secondary?
19. An airplane requires a long run on the ground before taking off. Explain why?
20. What are the various scales we use to measure temperature?
21. Explain electromagnetic spectrum and mark position of UV,IR, visible and micro wave in it.

(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. How do we classify stars?
25. Explain the importance of artificial satellites in our modern life.

(2×15=30)