QP CODE: 21100041

21100041

Reg No : .....

Name : .....

# UNDERGRADUATE (CBCS) EXAMINATION, FEBRUARY 2021

## Fifth Semester

(Offered by the Board of Studies in Physics)

## Open Course - PH5OPT02 - PHYSICS IN DAILY LIFE

2017 Admission Onwards

AFAD4B37

Time: 3 Hours Max. Marks : 80

### Part A

*Answer any **ten** questions.*

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

1. What is the SI unit of Temperature?
2. What is the principal of optical fibre?
3. Which type of mirror is used by dentists to see the cavity in the tooth of a patient?
4. Which type of lens are called converging lens?
5. What is meant by instantaneous velocity?
6. How do Physicist measure inertia?
7. Explain the term weightlessness.
8. What is the name of the instrument we use to measure Voltage?
9. The sounds emitted by bats are extremely intense. Then why can't we humans hear them?
10. Write down some uses of LASER.
11. Can plants grow in moon? Why?
12. Name the Galaxy to which you belong to.

(10×2=20)

### Part B

*Answer any **six** questions.*

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

13. How can we calculate error in the case of multiplication and division of two

measurements?

14. What are the laws of refraction?

15. Explain the reason for twinkling of stars.

16. How does uniform linear motion differ from uniform circular motion? Give two points of differences.

17. When we travel in a vehicle which takes a curve, we feel a pull to the outward direction of curve. Explain this phenomenon

18. What is one kWh? How it can be equated to Joule?

19. The velocity of water in a river will less on the bank but great in the middle?. Do you agree. Why?

20. Write a short note about the Celsius scale of temperature.

21. With a neat diagram explain how solar eclipse occur.

(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)