

U.G. 3rd Semester Examination-2024**PHYSIOLOGY****[MAJOR]****Course Code : PHY-MJ-T-03****[NEP-2020]**

Full Marks : 40

Time : $2\frac{1}{2}$ Hours*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.***GROUP-A**

1. Answer any five questions from the following:

 $2 \times 5 = 10$

- a) What is Leukemia?
- b) State the functions of NK cells.
- c) What is hapten?
- d) What do you mean by antigen and antibody reactions?
- e) What are cytokines?
- f) What do you mean by haemostasis?
- g) What is ESR and what is its utility? 1+1
- h) Name any two anti-coagulants.

[Turn Over]

GROUP - B

2. Answer any two questions from the following:

5×2=10

- a) Write a note on Erythroblastosis Foetalis.
- b) Why blood normally does not clot in the blood vessels? Explain critically. 1+4
- c) Describe ABO blood group system.
- d) What do you mean by immunity? Classify different types of immunity. $2\frac{1}{2}+2\frac{1}{2}$

GROUP - C

3. Answer any two questions from the following:

10×2=20

- a) Discuss the different stages and factors controlling erythropoiesis. 4+6
- b) Classify different types of immunoglobulins and their functions. 4+6
- c) Discuss the structure, bio-synthesis and functions of haemoglobin. 2+6+2
- d) Define Haemostasis. Describe the mechanism of blood coagulation in brief with a schematic diagram. 2+8