

# UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES DEPARTMENT OF PHARMACY FOURTH BPHARM PART I EXAMINATION – MARCH/APRIL 2021 PH 4141 CELL BIOLOGY AND IMMUNOLOGY - SEQ

-Original -

# TIME: TWO HOURS

Index No:...

(5)

# INSTRUCTIONS

- There are four questions in this paper.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.
- 01. Stem cells can be categorized according to their origin.

	1.1 List five different adult stem cells.	(20 marks)
	1.2 List five diseases treated with stem cell therapy.	(20 marks)
	1.3 Receptors are a main component of signal transduction process in cells.	Write a short
	note on "receptors".	(40 marks)
<del>1</del> 97	1.4 Explain the stages of cell cycle.	(20 marks)

#### 02.

2.1 State five different types of immunoglobulins and mention one	function of each
immunoglobulin.	(40 marks)
2.2 Write a short note on "antibody".	(40 marks)
2.3 Briefly explain four salient features of Ag – Ab reaction.	(20 marks)

### 03.

3.1 Write three main lymphoid organs with a function of each	organ. (30 marks)
3.2 What is "Innate immunity"? Explain briefly.	(35 marks)
3.3 Explain the mechanism of humoral immune response.	(35 marks)

## 04.

4.1 Name five mediators of type I hypersensitivity.	(20 marks)
4.2 Briefly explain the mechanism of type I hypersensitivity.	(30 marks)
4.3 List five autoimmune diseases.	(20 marks)
4.4 Write a short account on inflammation.	(30 marks)

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