

Department of Parhology Azra Hahaed Medical College Grand Test-5, 26 March 2019 MBBS 3" Year (SEQ)

(Immunology/ Stapylococci/ Streptococci)

Time Allowed: 60 min

Total Marks: 25

Name: _	PRILAN	BH
Roll No:	F17-01	63
Date:	331	

Instructions:

- 1. All subjective questions are to be attempted on the paper and returned to the invigilator within specified time after you have received the question paper.
- 2. Neat hand writing and use of margins will increase the outlook and presentation of your paper.

Attempt all Questions. Each Question carries 5 marks

- Q1. Define the following terms: (5)
 - a) Immunogen
 - b) Central tolerance
 - c) Molecular mimicry
 - d) Allograft
 - e) Clonal expansion

Q2 (a). Briefly describe cascade of events for exogenous antigen presentation to T cells. (3)

- (b). Name the autoantibodies present in the following diseases: (2)
 - (i) Grave disease
 - (ii) Myasthenia gravis
 - (iii) Rheumatoid arthritis

Q3. A child stung by a bee experiences respiratory distress within minutes and lapses into unconsciousness.

- a) Identify the hypersensitivity reaction (1)
- b) What is the pathogenesis of the disease? (4)

Q4. A student from Azra Naheed Medical College and his friend presented to emergency with complain of vomiting and diarrhea 4-6hrs after they had lunch at some local restaurant

a) What is the causative agent? (1)

b) Write in detail the virulence factors of this organism including cell wall associated factors and extracellular factors (4) and extracellular factors (4) Northale

Q5. A 13 year old boy came with complain of sore throat for 2 days associated with high grade fever O/E phartogeal was was inflamed with yellow exudate on both torisis and cervical lymph nodes were tender. Throat swah was send to microbiology Jab, Gram stained smear showed Gram positive cocci in chain which were catalase negative

a) What is the most probable causative organism'

b) Name 2 immunological, non-supporative sequales of group A streptococci? (1)

c) What is the basis of Lancefield classification?(1)

d) What is the basis of CAMP test? (2)

Acude Rheume Equel Acute Contomerosom

Q5. 30 year male received an allogenic kidney transplant. 3 weeks after he presented with generalised symptoms of feeling unwell and decreased urine out:

- (a). What type of rejection has occurred? (1)
- (b), what is the mechanism of GVHD? (3)
- (c), what is the role of HLA in transplantation? (1)

Q6, 35 year female presented with arthritis, photosensitivity and butterfly rash on lace.

- (a). What is the diagnosis. (1)
- (b). Which autoantibody is hallmark for diagnosis of disease. (1)
- (c), what do you understand by central and peripheral tolerance? (2)
- (d). What is molecular mimicry (1)





Department of Pathology Azra Nakeed Medical College Short Test-4, 28 February 2017 MBBS 3" Year (SEQ) (Immunology)

Time Allowed: 60 min

Total Marks: 30

Name: Abras Saleon	1
Roff No:	

Instructions:

- All subjective questions are to be attempted on the paper and returned to the invigilator within specified time after you have received the question paper.
- Neat hand writing and use of margins will increase the outlook and presentation of your paper.

Attempt all Questions: Each Question carries 5 marks

- Q1. Define the following terms: (5)
 - a) Immunogen
 - b) Hapten
 - c) Humoral Immunity
 - d) Cell mediated immunity
 - e) Clonal expansion
- Q2 (a). Differentiate between Innate and adaptive Immunity. (3)
 - (b). What is the mechanism of action of NK cells? (2)
- Q3 (a). Briefly describe cascade of events for exogenous antigen presentation to T cells. (3)
 - (b). What are the biological functions of antibodies? (2)
- Q4. A child stung by a bee experiences respiratory distress within minutes and lapses into unconsciousness.
 - a) Identify the hypersensitivity reaction (1)
 - b) What is the pathogenesis of the disease? (4)



Department of Pathology Azra Naheed Medical College Grand Test-5, 26 March 2019 MBBS 3" Year (SEQ)

(Immunology/ Stapylococci/ Streptococci)

Time Allowed: 60 min

Total Marks: 25

Name:	_
Rail No: _	_
Date:	

Instructions:

- 1. All subjective questions are to be attempted on the paper and returned to the invigilator within specified time after you have received the question paper.
- 2. Neat hand writing and use of margins will increase the outlook and presentation of your paper.

Attempt all Questions. Each Question carries 5 marks

- Q1. Define the following terms: (5)
 - Immunogen
 - b) Central tolerance
 - Molecular mimicry
 - Allograft
 - Clonal expansion
- Q2 (a). Briefly describe cascade of events for exogenous antigen presentation to Ticells. (3)
 - (b) Name the autoantibodies present in the following diseases: (2)
 - (i) Grave disease
 - (ii) Myasthenia gravis
 - (iii) Rheumatoid arthritis
- Q3. A child stung by a bee experiences respiratory distress within minutes and lapses into unconsciousness
 - a) Identify the hypersensitivity reaction (1)
 - b) What is the pathogenesis of the disease? (4)
 - C)
- Q4. A student from Azra Naheed Medical College and his friend presented to emergency with complain of vomiting and diarrhea 4-6hrs after they had lunch at some local restaurant
 - a) What is the causative agent? (1)
 - b) Write in detail the virulence factors of this organism including cell wall associated factors and extracellular factors. (4)
- Q5. A 13 year old boy came with complain of sore throat for 2 days associated with high grade fever O/E pharyngeal wall was inflamed with yellow exudate on both tonsits and cervical lymph nodes were tender. Throat swab was send to microbiology lab, Gram stained smear showed Gram positive cocci in chain which were catalase negative.
 - a) What is the most probable causative organism? (1)
 - b) Name 2 immunological, non-supporative sequales of group A streptococci? (1)
 - c) What is the basis of Lancefield classification?(1)
 - d) What is the basis of CAMP test? (2)

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