**Tanta University** 

**Faculty of Medicine** 

Time allowed: 3 hours

Date: 1/3/2021

All questions to be answered



Dermatology and Venereology

Mycology, Immunology, Molecular Biology

MD, First semester, Final exam

**Total marks: 90** 

- 1. Acute type of tinea pedis (eczematized form) is commonly caused by: (1 mark)
  - A. T. mentagrophytes var interdigitalis
  - B. T. rubrum
  - C. T. mentagrophytes var mentagrophytes
- 2. The most common agent in tinea corporis is: (1 mark)
  - A. T. tonsurans
  - B. T. rubrum
  - C. M. canis
- 3. This is not correct in chronic mucocutaneous candidiasis: (1 mark)
  - A. Often genetic
  - B. There is tendency to visceral dissemination
  - C. Begins before age of 3 years

4. Candidiasis is best demonstrated in clinical specin	nen by:	(1 mark)
A. H&E		
B. Giemsa's stain		
C. Meyer mucicarmine stain		
D. Gram stain		
5. This agar media helps the formation of conidia:		(1 mark)
A. Corn meal agar		
B. CHROM agar		
C. Caffeic acid agar		
6. Classification of fungi depending on sexual reproincludes:  a)	duction (4 ma	rks)
7. Chlamydospores are produced by: a)b)	(2 ma	rks)

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8. Yeas	sts are characterized by the following:	(3 marks)
	a)	
) •	b)	
	c)	
9. The	se are biological importance of spores:	(4 marks)
a"	a)	
	b)	
	c)	
	d)	
10. V	irulence factors in the pathogenesis of fungal	disease are: (4 marks)
	a)	
ž.	b)	
	c)	
	d)	
11. Ex	pression of T-cell mediated immunity to fungi	includes: (3 marks)
	a)	
	b)	
	c)	

12. On using Gomori's methenamine silver stain (GMS) stain	n: (3marks)
a) Outline of fungi are	
b) Internal parts stain	
c) Background stains	
13. Causative fungi in two feet – one hand syndrome are:	(2 marks)
a)	
b)	
14. These are zoophilic dermatophytes:	(3 marks)
a)	
b)	
c)	
15. Pityriasis versicolor is caused by some types of Malasses	zia as:
	(4 marks)
a)	
b)	
c)	
d)	

	16. These tests are used for molecular biology detection of					
	fungi:	(3 marks)				
	a)					
£	b)					
	c)					
17. These are the advantages of using MALDI-TOFMS device for						
der	matophyte identification:	(2 marks)				
	a)					
	b)					
18. Sy	stemic treatment of tinea capitis includes:	(3 marks)				
	a)					
ä.	b)					
	c)					
19. Summarize the role played by the complement in the innate						
imı	mune response	(5 marks)				
20. G	ive an account on inflammasomes	(5 marks)				
21. Identify costimulatory signals for a T-cell immune response (5 marks)						

22. 1	Discuss Keratinocytes as immune targets a	nd initiators	(5 marks)	
23. Mention how to measure spatial distribution of DNA or RNA				
W	ithin tissues		(5 marks)	
24. I	Explain genetically engineered mouse mod	ules	(5 marks)	
25. Illustrate gene-based therapy for skin diseases targeting DNA				
			(5marks)	
26. <u>I</u>	Mark as True or False (10 m	narks)		
	A. Tumor cells often down-regulate MHC o	class I molecul	les to	
	escape recognition by cytotoxic T-cells	(	)	
B. Toll-like receptors aren't involved in the recognition of				
	viral component	(	)	
	C. T-helper 17 cells produce IL-17, IFN ar	nd IL-4, where	eas	
	T-helper 22 produces IL-22 only	(	)	
	D. RNA is easy to purify but it is much mor	e readily degr	aded	
99 98 17	than DNA	(	)	
	E. Western blot assay can determine prote	ein level and s	size	
		(	)	

**Good Luck** 



# 28/2/2021

### Doctorate exam - Semester 2

## All questions must be answered

Q1: Discuss sub-epidermal bullous diseases with neutrophilic infilterate. (30 Marks)

Q2: Discuss and illustrate pathological picture of different types of leprosy (20 Marks)

Q3: Give a short account on pathological feature of:

A. Pustular psoriasis

(10 Marks)

B. Sarcoidosis

(10 Marks)

#### Q4: Choose only one answer:

(20 Marks)

- 1- Gouty tophi is formed by an intense inflammatory reaction "of macrophages, lymphocytes and large foreign body giant cells" which surround a center formed of:
  - a. Lipid
  - b. Mucin
  - c. Urate crystals
  - d. Fibrin

### 2 - Cowdry Type A bodies are seen in:

- a. Herpes zoster
- b. Lichen planus
- c. Verruca vulgaris
- d. Molluscum contagiosum
- 3. Which of the following is NOT a pathological finding of psoriasis:
  - a. Parakeratosis
  - b. Supra-papillary thinning
  - c. Pautrier's microabscesses
  - d. Test tube acanthosis
- 4. Grover disease is characterized pathologically by:
  - a. Acantholysis
  - b. Eosinophilic spongiosis
  - c. Superficial dermal infiltrate of lymphocytes and eosinophils
  - d. All of the above