"Dissemination of Education for Knowledge, Science and Culture"

- Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur

Department of Microbiology

Internal Exam Notice

Date- 22/12/2021

All the students of B.Sc II are hereby informed that Department of Microbiology has decided to conduct Internal assessment on 27th December 2021 at 2:00 – 3:00 pm in Room No. 64. All the Students should present on time.

VIVEKANAND COLLEGE ESTD. JUNE 1964 KOLHAPUR-416 003

for Head
Department of Microbiology.
Vivekanand College, Kolhapur

Vivekanand College, Kolhapur

Department of Microbiology

B.Sc ll Internal Exam (2021-2022)

Date: 27/12/2021

Question Paper

1. All the cells in a ..... culture divide at the same time.

a) Synchronous b) Continuous c) Normal d) None of these

2..... growth is characterized by a double growth cycle consisting of two exponential phases separated by a distinct lag phase.

a) Synchronous b) Diauxic c) Continuous d) Normal

3. ..... method is widely used in milk industry to determine level of contamination before pasteurization.

a) Electronic particle counter b) Petroffs-Hausser blood counter

c) Breed d) Plate count method

4. The culture maintained in the logarithmic phase and at a constant culture density for extended periods is called..... culture

a) Synchronous b) Continuous c) Normal d) Diauxic

5 The population in ..... phase is termed as youthful population.

a) Lag b) Log c) Stationary d) Death

6. Droplets present in air are larger than..... in diameter.

a) 0.1mm b) 0.1cm c) 1mm d) 0.01mm

7. *Mycobacterium tuberculosis* spread through .....

a) Droplet b)Food c) Droplet nuclei d) Milk

8. The food supplied to germ free animal is made sterile by using.....

a) Normal air b) Steam c) Irradiation d) Hot air

VIVEKANAND COLLEGE ESTD. JUNE 1964 KOLHAPUR

9. which of the following is not suitable medium for growth of organisms.

a) Food b) Milk c) Soil d) Air

10. Dust laden with air born pathogen is.....

a) Infectious dust b) Biodust c) Contaminated dust d) Pathogenic dust

11. The cells need for NADH is fulfilled by ..... pathway.

a) EMP b) ED c) HMP d) TCA

12. The condensation of acetyl Co. A and oxaloacetic acid is catalyzed by ..... enzyme.

a) Isocitrate synthase b) Citrate lyase c) Citrate synthase d) Pyruvate dehydrogenase

13. The enzyme KDPG aldolase is unique to ..... pathway.

a) HMP d) ED c) TCA d) EMP

14. The enzyme hexokinase requires ..... as a cofactor.

a) Ca++ b) Thymine pyrophosphate c) Mg++ d) Mn++

15. ..... accepts hydrogen from malate.

a) FAD b) NAD c) NADP d) FMN

16. ..... are used for aeration in the fermentor.

a) Sparger b) Baffles c) Steam d) None

17. .....is used to control the foam production.

a) Impeller b) Sparger c) Baffles d) None

18. ..... are used for proper mixing of nutrients in the fermentor.

a) Impeller b) Sparger c) Baffles d) None

19. The capacity of pilot plant fermentor is .....lit.

a) 100 – 500 b) 1 – 2 c) 1,00,000 d) None

20. The metabolites required for growth and multiplication are called ..... metabolites.

a) Primary b) Secondary c) Tertiary d) Quaternary

VIVEKANAND COLLEGE ESTD. JUNE 1964 KOLHAPUR

Vivekanand College, Kolhapur

Department of Microbiology

B.Sc ll Internal Exam (2021-2022)

Date: 27/12/2021

Sr.NO	Name of student	Roll Number	Signature
1	AGA SAYMA SAMIR	7191	
2	MOKASHI TANJILA BASHIR	7250	
3	PATIL MRUNALI ALAS MAYURI VITTHAL	7260	
4	BAGANIKAR VAISHNAVI MAHESH	7385	
5	BARDESKAR STUTI KAITAN	7386	
6	CHOUGALE PRIYANKA SANJAY	7387	
7	DABHOLKAR MEGHDUT VISHNU	7388	
8	DESAI TAMANNA SULTAN	7390	
9	GHOSALKAR MANASI SURESH	7392	
10	MUJAWAR NAAZ NAVAJ	7393	
11	KAMBLE PAVANASHWARI MALLAPPA	7394	
12	KAMBLE SANJIVANI NILKANTH	7395	
13	KASHID SHANTANU SUNIL	7396	
14	KOLI PRIYANKA SUNIL	7397	
15	UBALE PRATIBHA SARDAR	7398	
16	KUMTHEKAR KRUSHNAKANT SURENDRA	7399	
17	NALAWADE SAKSHI SUNIL		
18	PADWAL KISHORI NARAYAN	7403	
19	PATIL MADHURA BUDDHIRAJ	7404	
20	PATIL SHIVANI RANGRAO	7405	
21	JADHAV NISHA SHASHIKANT	7406	
22	BASARE GAYATRI PRAMOD	7408	
23	POWAR SHITAL EKANATH	7409	
24	POWAR SHRUTIKA SAMBHAJI	7410	
25	KILLEDAR MANASI SHEKHAR	7411	
26	SHIROLKAR DIPTEE BAJIRAO	7412	
27	TAMBOLI SAYMA RASHID	7413	
28	TADWALE AAROHI ANIL	7416	
29	ZUNAKE SUYASH DNYANDEV	7417	

VIVEKANAND COLLEGE ESTD. JUNE 1964 KOLHAPUR 416 003

Signature of Supervisor

Shri Swami Vivekanand Shikshan Sanstha's

VIVEKANAND COLLEGE (Autonomous), KOLHAPUR

Class B.Sc. II Div 27/12/21 (18/20) Roll No. 7399

Suppliment No. Krushnakant Surendra Kumthekar Subject Microbiology

Test / Tutorial No. B.Sc II Internal exam 2021-22

i) A cell in a synchronous culture divide at the same time.
✓ (a) synchronous (b) continuous (c) Normal (d) None of above

ii) diauxic growth is characterized by a double growth cycle consisting of two exponential Phases seprated by distinct lag Phase.
(a) synchronous (b) diauxic (c) continuous (d) Normal.

iii) Plate count method is widely used in milk industry to determine level of contamination before pasteurization.
(a) Electronic particle counter (b) Petroffs - Hausser blood count
(c) Breed (d) Plate count method.

iv) The culture maintained in logarithmic phase and at constant culture density for extended period called contineous culture.

v) The population in log phase is termed as youthful population.

i) Droplets present in air are larger than 0.1mm in diameter.
(i) 0.1mm (ii) 1mm (iii) 0.1 cm (iv) 0.01 mm

ii) Mycobacterium tuberculosis spread through Droplet nuclei

(viii) The food supplied to germ free animals is made ~~ste~~ sterile through Irradiation.
(i) Normal air (ii) steam (iii) Irradiation (iv) Hot air.

(ix) Air is not suitable medium for growth of microorganisms

x) Dust laden with air borne pathogen is called as Infectious dust.

xi) The cells need for NADH is fulfilled by EMP pathway.
(i) EMP (ii) ED (iii) HMP (iv) TCA

i) condensation of acetyl CoA and OAA is catalysed by citrate synthase enzyme.

ii) The enzyme - KDPG aldolase is unique to ED pathway.

) The enzyme hexokinase requires Mg^{++} as a cofactor.

NAD accepts hydrogen from malate.

) Sparger is used for aeration in the fermentor.

ii) Impeller is used to control foam formation.

iii) Impeller are used for proper mixing of nutrients in the fermentor.

ix) The capacity of pilot plant fermentor is 100-500 lit

(xx) The metabolites required for growth and multiplication are called primary metabolites.

Shri Swami Vivekanand Shikshan Sanstha's

VIVEKANAND COLLEGE (Autonomous), KOLHAPUR

Class BSc II Date: 27/12/2021 Div 18/20 Roll No. 7409

Suppliment No. Shital Ekanath Pawar Subject Microbiology

Test / Tutorial No. B.Sc II Internal exam

1) A cell in a synchronous culture divide at same time. ✓

2) Diauxic growth is characterised by a double growth cycle consisting of two exponential phases separated by distinct lag phase. ✓

3) Plate count Method is widely used in milk industry to determine level of contamination befor pasteurization ✗

4) The culture maintained in logarithmic phase and at a constant culture density for extended period is called synchronous culture. ✗

5) The population in log phase is termed as youthful population. ✓

6) Droplets present in air are larger than 0.1mm in diameter. ✓

7) Mycobacterium tuberculosis spread through Droplet nuclei ✓

8) The food supplied to germ free animals is made sterile through Irradiation ✓

9) Air is not suitable for growth of microorganism.

10) Dust laiden with air borne pathogen is called as Infectious dust.

11) The cells need for NADH is fulfilled by HMP pathway.

12) Condensation of acetyl. co.A and OAA is catalysed by citrate synthase enzyme.

13) The enzyme KDPG aldolase is unique to ED Pathway

14) The enzyme hexokinase require Mg^{++} as a cofactor

15) NAD accepts hydrogen from malate.

16) Sparger is used for aeration in the fermentor.

17) Impellar is used to control foam formation

18) Impeller are used for proper mixing of nutrients in the fermentor.

19) The capacity of ~~pilot~~ pilot plant fermentor is 100 - 500 lit.

20) The metabolites required for growth and multiplicati are called primary metabolites.

Signature of Supervisor

Shri Swami Vivekanand Shikshan Sanstha's

VIVEKANAND COLLEGE (Autonomous), KOLHAPUR

Class B.Sc. II Div 27-12-2021 (18/20) S.Mudbar Roll No. 7411

Suppliment No. Manasi Shekhar killedar Subject Microbiology

Test / Tutorial No. Internal exam 2021-22

1) A cell in a Synchronous culture deride at the same time. ✓

2) Diauxic growth is characterised by a double growth cycle consisting of two exponensial phases separated by distict lag phase. ✓

3) Plate Count Method is widely used in milk industry to determine level of contamination before pasteurization ✗
a) electronic particle counter b) Petroff's-Hausser blood Counter
c) Breed d) Plate count method

4) The culture maintained in logarithemic phase & at a constant culture density for extended period is called Continuous Culture. ✓
a) Synchronous b) Continuous c) Normal d) Diauxic

5) The population in Log phase is termed as youthful population.

6) Droplets present in air are larger than 0.1mm in diammeter.

7) Mycobacterium tuberculosis spread through Droplet nuclei.

a) Droplet b) Food c) Droplet nuclei d) milk

8) The food supplied to germ free animal is made sterile through Irradiation.

a) Normal air b) steam c) Irradiation d) Hot air

9) Air is not suitable medium for growth of microorganism.

10) Dust laden with air born pathogen is called as Infectious dust.

11) The cell need for NADH is fulfilled by HMP pathway.

12) Condensation of acetyl CoA & OAA is catalysed by citrate synthase enzyme.

13) The enzyme KDPG aldolase is unique to ED pathway.

14) The enzyme hexokinase require Mg^{++} as a cofactor

15) NAD accepts hydrogen from malate.

16) Sparger is used for aeration in the fermentor.

17) None is used to control foam formation.

a) impeller b) sparger c) Baffles d) None.

18) impeller is used for proper mixing of nutrients

19) The capacity of pilot plant fermentor is 100-500 lit

20) The metabolites required for growth & multiplication are called primary metabolites.

Signature of Supervisor

Shri Swami Vivekanand Shikshan Sanstha's
VIVEKANAND COLLEGE (Autonomous), KOLHAPUR

Class B.Sc II Div 27/12/21 (17/20) (8 Modified) Roll No. 7416

Suppliment No. Aarohi Anil Tadwale Subject Microbiology

Test / Tutorial No. Internal Exam 2021-22

1. A cell in a Synchronous culture divide at the same time

2. Diauxic growth is charachterized by a double growth cycle consisting of two exponential phases separated by distinct lag phase

3. Breed method is widely used in milk indwstry to determine level of contamination before pasteurization

4. The culture maintained in logarithmic phase & at a constant culture density for extended period is called Contineous culture.

5. The population in log phase is termed as youthfull population.

6. Droplets present in air are larger than 0.1 mm in diameter.

7. Mycobacterium tuberculosis spread through Droplet nuclei

8. The food supplied to germ free animals is made sterile through Irradiation

9. Air is not suitable medium for growth of microorganisms.

10. Dust laden with air born pathogen is called as Infecious dust

11. The cells need for NADH is fullfilled by TCA pathway

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13. The enzyme KDPG aldolase is unique to ED pathway.

14. The enzyme hexokinase requires Mg^{++} as a Cofactor

15. NAD accepts hydrogen from malate

16. Sparger is used for aeration in the fermentor

17. None is used to control foam formation

18. Baffles are used for propermixing of nutrients in fermentor

19. The capacity of pilot plant fermentor is 100 - 500 lit

20. The metabolites required for growth & multiplication are called Primary metabolites.

Vivekanand College, Kolhapur

Department of Microbiology

B.Sc ll Internal Exam (2021-2022)

Date: 27/12/2021

Sr.NO	Name of student	Roll Number	Marks out of 20
1	AGA SAYMA SAMIR	7191	06
2	MOKASHI TANJILA BASHIR	7250	05
3	PATIL MRUNALI ALAS MAYURI VITTHAL	7260	15
4	BAGANIKAR VAISHNAVI MAHESH	7385	09
5	BARDESKAR STUTI KAITAN	7386	15
6	CHOUGALE PRIYANKA SANJAY	7387	16
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8	DESAI TAMANNA SULTAN	7390	08
9	GHOSALKAR MANASI SURESH	7392	13
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13	KASHID SHANTANU SUNIL	7396	07
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15	UBALE PRATIBHA SARDAR	7398	08
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17	NALAWADE SAKSHI SUNIL		07
18	PADWAL KISHORI NARAYAN	7403	15
19	PATIL MADHURA BUDDHIRAJ	7404	12
20	PATIL SHIVANI RANGRAO	7405	08
21	JADHAV NISHA SHASHIKANT	7406	08
22	BASARE GAYATRI PRAMOD	7408	07
23	POWAR SHITAL EKANATH	7409	18
24	POWAR SHRUTIKA SAMBHAJI	7410	11
25	KILLEDAR MANASI SHEKHAR	7411	18
26	SHIROLKAR DIPTEE BAJIRAO	7412	15
27	TAMBOLI SAYMA RASHID	7413	15
28	TADWALE AAROHI ANIL	7416	17
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Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur

Department of Microbiology

Notice

Date –15/12/2021

All the students of B.Sc.III are hereby informed that Department of Microbiology has decided to conduct Internal assessment on 21th &22 th December 2021 .Students should present in time.

Time Table (2021-2022)

Day & Date	Time	Subject
21/12/2021	11.30 AM to 12.00 PM	Immunology & Clinical Microbiology (Paper V- Section I)
	12.00 PM to 12.30 PM	Immunology &Clinical Microbiology (PaperV-Section II)
22/12/2021	11.30 PM to 12.00 PM	Industrial Microbiology & Microbial Biochemistry(Paper – Section VI Section I)
	12.00 PM to 12.30 PM	Industrial Microbiology & Microbial Biochemistry(Paper – Section VI Section II)

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Vivekanand College, kolhapur

Department of Microbiology

B. Sc.III Internal Exam (2021-2022)

Subject- Immunology (Section I)

Time -11.30AM-12.00PM **Date-21/12/2021**

Question Paper

Q. Choose the correct alternative & rewrite the sentence

1. The chaperon is associated with free class Ig α chain facilitate its folding and release after binding to β macroglobin is.....

a.Calmexein b.Calreticulin c.Tapasin. d.Ubiqutin

2. NK cells do not .....s

a.Contain perforins. b.have receptor that recognize MHC molecule

c Generate memory response d.Respond to virus infection.

3. Which of the following subunits have 3 ITAM domains

a.gamma b.delta c.epsilon d.zeta

4.Which of the following act as a co receptor for B cell activation.

a.GD-28 b.IgA c.CD 19 d.IL-2

5.T cell receptor is a hetrodimer which consist of..... chain

a. α,β chain b.ϒ,ɗ chain c.both of above d.None of the above

6.B cell receptor are made up of.....

a side chains b.Ig α and Ig β c.Protein & lipid complex d. Inhibitory and activating receptor.

7.TCR is expressed on T cell surface along with the ..... signaling complex.

a.CD3 b.CD4 c.CD8 d.CD9

8. On the surface of TH cell ..... is present along with TCR

a.CD3 b.CD4. c.CD8 d.CD9

9.Inhibitory and activating receptors are present on.....

a.T cell b.B cell. c. NK cell d.Macrophage.

10. Phospholipid antigen are identified by TCR containing..... chains.

a.α,β b.ϒ,ɗ c.epsilon, zeta d. epsilon, delta.

Vivekanand College, Kolhapur
Department of Microbiology
B.Sc III Internal Exam (2021-2022)
Subject –Clinical Microbiology (Section II)

Time-12.00-12.30 p.m **Date: 21/12/2021**

Question Paper

Q. Choose the correct alternative & rewrite the sentence.

1. ..... produced by Clostridium perfringens is responsible for food poisoning.

a. Beta b. Epsilon c. Alpha d. Iota

2. ..... of the following is a virulent strain of Treponema pallidum.

a. Reiters strain b. Nichol's strain c. Kazan strain d. Noguchi strain

3. In ..... type of leprosy, high CMI is observed.

a. Lepromatous b. Indeterminate c. Dimorphous d. Tuberculoid

4. In multibacillary leprosy, minimum ..... organisms per lesions are observed.

a. Four b. Five c. Six d. Two

5. Hunterian chancres are observed in ..... stage of syphilis.

a. Primary b. Secondary c. Latent d. Tertiary

6. Nagler's test is used for diagnosis of .....

a. Treponema pallidum b. Mycobacterium leprae c. Clostridium perfringens d. Pseudomonas aeruginosa

7. ..... of the following is an acid fast organism.

a. Clostridium perfringens b. Mycobacterium leprae c. Pseudomonas aeruginosa d. Treponema pallidum

8. RPR test is an example of ..... test.

a. Agglutination b. Complement fixation c. Flocculation d. Precipitation

9. ..... is a strictly anaerobic organism.

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a. *Treponema pallidum*

b. *Mycobacterium leprae*

c. *Clostridium perfringens*

d. *Pseudomonas aeruginosa*

10. VDRL test is used for diagnosis of ..... organism.

a. *Pseudomonas aeruginosa*

b. *Treponema pallidum*

c. *Mycobacterium leprae*

d. *Clostridium perfringens*

Vivekanand College, Kolhapur

Department of Microbiology

B.Sc III Internal Exam (2021-2022)

Subject –Industrial Microbiology (Section I)

Time-12.00-12.30 p.m **Date: 22/12/2021**

Question Paper

Q.Choose the correct alternative & rewrite the sentence.

1.Some of the highly toxic metabolite like mycotoxins are produced by____

a.Fungus b.Bacteria c.Rickettsiae d.Yeast

2.Certain strains of *Aspergillus flavus* produce _____

a.Patulin b.Roquefortine c.Aflatoxin d.Peniillinic acid

3.Staphylococcal food poisoning is caused by ingestion of heat stable _____produced by the organisms.

a.Exotoxin b.Enterotoxin c.Cytotoxin d.Neurotoxin

4.Fresh milk contains _____ as naturally present inhibitory substances to prevent the growth of microorganisms.

a.Lacternins & anticoliform factor b.Lysosomes

c.Benzoic acid d.Furfurals

5.A highly oxidized substrate would have _____

a.Positive Eh b.Negative Eh c. Neutral Eh d.Both Eh

6.____acids,in addition to lowering the pH of food also actively inhibit microorganisms.

a.Mineral b.Organic c.Inorganic d.Fatty

7.The incubation period in Staphylococcal food poisoning is usually _____

a.2-4 hrs b.24hrs c.1 week d.48 hrs

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8.*Streptococcus lactic* produces _____ antibiotic that inhibit lactate fermenting microorganisms.

a.Penicillin b.Nisin c.Streptomycin d.Chloramphenicol

9.Aflatoxin causes mutation in _____ gene,an important gene in preventing cell cycle progression.

a.p^{54} b.p^{35} c.p^{53} d.p^{38}

10.In the treatment of Salmonellosis____ antibiotic is given to patient.

a.Streptomycin b.Cephalexin c.Azithromycin d.Ampicillin

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Vivekanand College, Kolhapur

Department of Microbiology

B.Sc III Internal Exam (2021-2022)

Subject –Microbial Biochemistry(Section II)

Time-12.30-1.00 p.m **Date: 22/12/2021**

Question Paper

Q.Choose the correct alternative & rewrite the sentence.

1. _____is essential for bioluminescence in bacteria.

a.Acetate b.Aldehyde c.Amino acid d.Alkali

2. Coperative binding of substrate is feature of ____

a. Isozymes b.Ribozymes c.Allosteric enzymes d.Nanoenzymes

3. ____ gene codes for luciferase enzyme.

a.Lux b.Cry c.Leu d.Lac

4.GOGAT system is involved in _____ assimilation.

a.Sulfur b.Carbon c.Sodium d.Nitrogen

5. _____is the primary acceptor of CO_2 in carbon assimilation.

a. Ribulose kinase b.Ribuloise1,5 di PO_4 carboxylase

c. Ribulose monophosphate carboxylase d.Ribulose PO_4 carboxylase

6.Aspartate transcarbomylase is an example of _____

a. Ribozymes b. Isozymes c.Allosteric enzymes d.Abzymes

7.V_0=-------

Km + (s)

a. km b.[s] c.V_{max} [S] d.V_{max}

8.The term enzyme was coined by _____

a. Robert Koch b. Elie Metechnikoff c. Wilhem Kuhne d. Isozymes

9. _____is non proteomic, organic part of enzyme.

a. Cofactor b. Coenzymes c. Prosthetic group d. Isozyme

10.Allosteric enzyme show _____ type of curve when plotted against [S] v/s V_0.

a. Sigmoidal b. Hyperbolic c. Parabolic d. Closed curve

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Vivekanand College, Kolhapur

Department of Microbiology

B.Sc III (2021-2022)

Internal Exam (Paper V/VI) Date : 21/12/2021

Sr. No	Name of student		Signature
1	BAGADE KARINA SURAJ	04	
2	BALUGADE SIDDHI ANANDA	04	
3	BANAGE ANAGHA AVINASH	08	
4	BANDIVADEKAR PRASAD ASHOK	05	
5	BARAPATRE YASH SANDESH	07	
6	DATAR PRANAV SHRIRAM	07	
7	DAVANG SHRADDHA ADINATH	08	
8	DIXIT SUJATA RAMASHISH	09	
9	GHADAGE VAISHNAVI VINAYAK	07	
10	GHADGE VAISHNAV DHARMARAJ	03	
11	JADHAV ADITI AJAY	08	
12	JADHAV VINAYA MOHAN	08	
13	KAMBLE SHIRISH SANJAY	03	
14	KATALE MAYUR MANOHAR	05	
15	KESARWANI ROMA BARAMDIN	05	
16	KHOT ASHWINI SHIVAJI	09	
17	KULKARNI DIVYA ASHOK	06	
18	MAHADIK RUCHITA PRASHANT	05	
19	MANE SNEHAL DIPAK	03	
20	MANUVEL ROHAN RAJSHEKHAR	03	
21	MORE RUTH MADAN	06	
22	MOULAVI SHAGUFTA RIZWAN AHMAD	05	
23	MULLANI SANA CHAND	09	
24	PANGE PRATIKSHA PRABHAKAR	04	
25	PATIL SHAMITA SHITAL	06	
26	PATIL SHWETA SANTOSH	05	
27	PATIL VAISHNAVI SURESH	07	
28	POWAR PHULABAI PRAKASH	09	
29	RANAMALE POOJA BANDOPANT	08	
30	SAKHALKAR VEDA SUNIL	06	
31	SALVANKAR SIDDHI DHANANJAY	09	
32	SAWANT SANIYA RAJVARDHAN	06	
33	SHAIKH SANIYA SHAKIL	09	
34	WAKRUSHE DIVYA VITTHAL	04	

VIVEKANAND COLLEGE ESTD. JUNE 1964 KOLHAPUR-416 003

ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षण प्रसार "
- शिक्षणमहर्षी डॉ. बापूजी साळुंखे

Signature of Supervisor

Shri Swami Vivekanand Shikshan Sanstha's
VIVEKANAND COLLEGE (Autonomous), KOLHAPUR

Class B.Sc III Div Roll No.

Suppliment No. ASHWINI SHIVAJI KHOT Subject MICROBIOLOGY

Test / Tutorial No. PAPER 5 SECTION - I IMMUNOLOGY

i. Choose the most correct alternative from given alternative -

1) Chaperones is associated with free class Ig α chain facilitates its folding and release after binding to B2 microglobin ise) Tapasin

a) Calnexein b) Calreticulin c) Tapasin d) Ubiquitin

2) NK cells do not Generate memory response.

a) have receptor that recognise MHC molecules.
b) Contains perforins
c) Generate memory response
d) respond to virus infections

3) Which of the following subunits have 3 ITAM domains Zeta.

a) γ b) δ c) ϵ d) ξ zeta

4) Which of the following act as coreceptor for B cell activation

a) CD28 b) IL-2 c) IgA d) CD19

5) TCR is a heterodimer which consists of c) both of the above

a) α & β chain
b) γ & δ chain
c) both of the above
d) None of the above

6) BCR are made up of b) Ig α & Ig β

a) Side chains b) Ig α & Ig β c) Protein & Lipid complex

d) Inhibitory and activating receptors

7) TCR is expressed on T cell surface along with the a) CD_3 signalling complex.

a) CD_3 b) CD_4 c) CD_8 d) CD_9

8) On the surface of T_H cells b) CD_4 is present along with TCR

a) CD_3 b) CD_4 c) CD_8 d) CD_9

9) Inhibitory and activatory receptors are present on c) NK cells

a) T cell b) B cell c) NK cell d) Macrophage

10) Phospholipid antigens are identified by TCR containing b) γ, δ chains.

a) α, β b) γ, δ c) ε, ζ d) ε, δ

09/10

Class B. Sc III Div Roll No.

Suppliment No. ASHWINI SHIVAJI KHOT Subject MICROBIOLOGY

Test / Tutorial No. PAPER 5 SECTION - II CLINICAL MICROBIOLOGY

1. c) α Toxin produced by Clostridium perfringens is responsible for food porsioning.

a) β b) ε c) α d) i

2. b) Nichol of the following is a virulent strain of Treponema pallidum.

a) Reiter b) Nichol c) kazan d) Noguchi

3. In d) Tuberculoid Leprosy high CMI is observed

a) Lepromatous b) indeterminate c) Dimorphous
d) Tuberculoid

4. In multibacillary leprosy minimum a) 4 organisms per lesions are observed.

a) 4 b) 5 c) 6 d) 2

5. Hunterian chancres are observed in a) Primary stage of Syphilis.

a) Primary b) Secondary c) Latent
d) Tertiary

6. Nagler's Test is used for diagnosis of c) Clostridium perfringens

a) Treponema pallidum
b) Mycobacterium leprae
c) Clostridium perfringens
d) Pseudomonas aeruginosa

7. b) M. leprae of the following is an acid fast organism.

a) Clostridium perferingens
b) Mycobacterium leprae
c) Pseudomonas aeruginosa
d) Treponema pallidum

8. RPR test is an example of c) Flocculation test

a) Agglutination
b) complement fixation
c) Flocculation
d) Precipitation

9. c) C. perfringens is a strictly anaerobic organism.

a) Treponema pallidum
b) Mycobacterium leprae
c) Clostridium perfringens
d) Pseudomonas aeruginosa

10. VDRL test is used for diagnosis of a) T. pallidum

a) T. pallidum
b) M. leprae
c) C. perfringens
d) P. aeruginosa

19/20

"ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षण प्रसार"
- शिक्षणमहर्षी डॉ. बापूजी साळुंखे

Signature of Supervisor

Shri Swami Vivekanand Shikshan Sanstha's

VIVEKANAND COLLEGE (Autonomous), KOLHAPUR

Class B.Sc. III Div - Roll No.

Suppliment No. Phulabai Prakash Powar Subject Microbiology

Test / Tutorial No. Paper V, Sec-I - Immunology

Q.1 Choose the most correct alternative from given alternatives 2

1) The chapedon is associated with free class Igκ chain facilitates it's folding and release after binding to β-2 macroglobi is calreticulin 1

a) Calnexein b) Calreticulin
c) Tapasin d) Ubiquitine

2) NK cells do not 1
a) have receptors that recognize MHC molecules
b) Contain perforins Ans: generate memory response
c) Generate memory response
d) respond to virus infection

3) Which of the following subunits have 3 ITAM domains 1
a) Gamma c) Epsilon Ans = Zeta
b) delta d) Zeta

4) Which of the following act as a co-receptor for B-cell activation.
a) CD_28 b) IL-2
c) d) CD19 Ans - CD19

5) T-cell receptor is a heterodimer which consist of

a) α & β chain b) γ and δ chain

c) Both of the above d) None of the above

Ans : Both of the above

6) B-cell receptors are made up of Igα and Igβ

a) Side chains b) Igα and Igβ

c) Protein and lipid

d) inhibitory and ~~activatory receptor~~ activating receptor

7) TCR is expressed on T-cell surface along with the CD_3 signalling complex

a) CD_3 b) CD_4

c) CD_8 d) CD_9

8) On the surface of TH cells CD_4 is present along with TCR.

a) CD_3 b) CD_4 c) CD_8 d) CD_9

9) Inhibitory and activating receptors are present on NK cell

a) T-cell b) B-cell c) NK cell d) Macrophage

10) Phospholipid Antigens are identified by TCR containing γ, δ chains

a) α, β b) γ, δ c) ϵ, ζ (zeta d) ϵ, δ (delta)

09/10

Signature of Supervisor

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VIVEKANAND COLLEGE (Autonomous), KOLHAPUR

Class B.Sc. III Div. Roll No.

Suppliment No. Phulabai Prakash Pawar Subject Microbiology

Test / Tutorial No. Paper V - Sec II - Clinical microbiology

1) <alpha toxin produced by Cl. perfringens is responsible for food poisoning

a) β (Beta) b) ∈ c) ∝ (alpha) d) Iota

2) Nichol of the following is a virulent strain of T. pallidum

a) Reiter b) Nichol c) kazan d) Noguchi

3) Tuberculoid leprocy high CMI is observed

a) lepromatous b) Indeterminate c) Dimorphous d) tuberculoid

4) In multibacillary leprosy minimum 4 organisms per lesions are observed

a) 4 b) 5 c) 6 d) 2

5) Hunterian chanker's are observed in primary stage of syphilis

a) Primary b) secondary c) Latent d) Tertiary

6) Nagler's test is used for diagnosis of Cl. perfringens

a) T. pallidum b) M. leprae

c) Cl. perfringens d) Pseudomonas aeruginosa

7) _____ of the following is an acid fast organism

a) Cl. perfringens b) Mycobacterium leprae c) P. aeruginosa d) T. pallidu

Ans: M. leprae (Mycobacterium leprae)

8) RPR test is an example of _____ test

a) agglutination b) complement fixation

c) flocculation d) precipitation

Ans: flocculation

9) Cl. perfringens is a strictly anaerobic organism.

a) T. pallidum b) M. leprae c) Cl. perfringens d) P. aeruginosa

Ans: Cl. perfringens

10) VDRL test is used for diagnosis of Treponema pallidum

a) M. leprae b) Cl. perfringens c) P. aeruginosa d) T. pallid