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Name	NILARGHO NATH BISWAS	Registration Number	19P1256
College	P020--EAST POINT COLLEGE OF PHARMACY ,BANGALORE.-BANGALORE		
Exam	PHAR5C--B.PHARM SEMESTER-III (RSS)	Category	OBC

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Sl. No.	College Code	Reg. No.	Application No.	Component	QP Code	Fees	Payment Ref.No.	Remarks
1	P020	19P1256	20170040888	PHAR5C0400Th	5012	250.00	YHMP1976009551	PHOTO COPY
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Course	PHAR5
TermCode	MAY-2023 (APR-23)

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Term: MAY-2023 (APR-23)

Sl.No.	QPCode	AnswerBookletId
1	5012	9451323392

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# Rajiv Gandhi University of Health Sciences

4th T Block, Jayanagar, Bengaluru, Karnataka 560041

## Digital Valuation Slip (Student Copy)

ANSWER BOOKLET NUMBER : XXXXXXX672  
EXAMINATION : PHARM-D-NOV23  
Q.P. CODE : 2857/PHARM. MICROBIOLOGY-TTP

Question No.	EVALUATION LEVEL				
	I	II	III	IV	V
1	NA*	NA*	-	-	-
2	2	2.5	-	-	-
3	1	0	-	-	-
4	0	0	-	-	-
5	NA*	NA*	-	-	-
6	1	1	-	-	-
7	2	1.5	-	-	-
8	1	0.5	-	-	-
9	NA*	NA*	-	-	-
10	2	0.5	-	-	-
11	1	1	-	-	-
12	0	0	-	-	-
13	0.5	0	-	-	-
14	1	0.5	-	-	-
15	1	0	-	-	-
16	1	0.5	-	-	-
17	0.5	0	-	-	-
18	0.5	0	-	-	-
19	1	0	-	-	-
20	0	0	-	-	-
21	0.5	0	-	-	-
<b>TOTAL</b>	<b>16</b>	<b>8</b>	-	-	-

  
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Note: Marks indicated in "\*" are not considered for totalling

Signature Registrar Evaluation

Note : This is a system generated report and hence signature not required

Question Answered (Darken the circles for answered questions)

Q. No.	ANSWER	Q. No.	ANSWER	Q. No.	ANSWER	Q. No.	ANSWER	Q. No.	ANSWER
1	<input type="radio"/>	6	<input checked="" type="radio"/>	11	<input checked="" type="radio"/>	16	<input checked="" type="radio"/>	21	<input checked="" type="radio"/>
2	<input checked="" type="radio"/>	7	<input checked="" type="radio"/>	12	<input checked="" type="radio"/>	17	<input checked="" type="radio"/>	22	<input type="radio"/>
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4	<input type="radio"/>	9	<input type="radio"/>	14	<input checked="" type="radio"/>	19	<input checked="" type="radio"/>	24	<input type="radio"/>
5	<input type="radio"/>	10	<input checked="" type="radio"/>	15	<input checked="" type="radio"/>	20	<input checked="" type="radio"/>	25	<input type="radio"/>
								26	<input type="radio"/>
								27	<input type="radio"/>
								28	<input type="radio"/>
								29	<input type="radio"/>
								30	<input type="radio"/>

Q.P. Code

2	8	5	7
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Page 01



## RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES, KARNATAKA

### OMR ANSWER BOOK LET

#### Instruction to Candidates to fill Registration Part of the Answer Book

Please follow these instructions carefully for filling up this form, which will help declaration of the results promptly and accurately.

1. This form will be scanned.
2. Fill this form neatly with BLACK INK BALL PEN only.
3. Fill this form in capital letters only.
4. Do not fold this sheet and Do not make any stray marks on this form.
5. PLEASE DARKEN THE APPROPRIATE CIRCLES FOR REGISTER NO., DATE, Q.P. CODE ANSWERED MANDATORILY.
6. Wrong darkening or double circle darkening will be treated as invalid.
7. Use only Alphabets / Numbers and darken the circle completely.

**NO ADDITIONAL SHEETS ARE GIVEN**

JUN-2023

4330012

Candidate shall fill Part-I Candidate's Registration as per the instructions given below.

1. Degree / Diploma : Write the name of the Degree / Diploma (for eg. : MBBS, BDS, Physiotherapy, MS-Ortho, MD-General Medicine, etc)
2. Exam : Write the Examination in which student is appearing (for eg., : 1st year, 1st Phase, Final Year, etc.)
3. Sub. / Paper & section : Write the subject name (for eg., Anatomy-Paper I - Section A).
4. Candidate Name : Write your name in BLOCK letters.
5. Reg. No.: Enter the register number (all seven digits) in the boxes first. Do not leave any boxes empty or do not fill any boxes other than number (0 to 9) and alphabets (A to Z). Darken the appropriate ovals neatly with BLACK INK BALL PEN only. The Register Number composition for UG course is 99x9999 (Eg.. 03M1253) Whereas for courses other than UG, it is 99xx999 (Eg.03MS101).
6. Q.P. Code : Question paper code is printed on your question paper. For example, question paper code on Anatomy - Paper I might look like 1201. In this case, you are required to darken only the number portion of the Q.P. code - i.e., 1201 in the boxes provided for the purpose.
7. Exam date : Enter date of examination in dd/mm/yy format.
8. Signature of the candidate : Affix your signature within the box.
9. Please darken tick the answered Question Numbers in appropriate boxes provided in the top of this page.

**General Instructions:-**

1. The answer must be legibly written using black ink ball pen only
2. The answer should begin on fresh page, at the end of each answer, draw a horizontal line using pencil only
3. Write answer on both side of all pages.
4. The main answer book has 56 pages. If you find either less or more number of pages in the answer book, kindly inform the room superintendent, Please exchange the answer booklet if you find any discrepancy.
5. Do not leave any page(s) unused in between answers.
6. Do not tear off any pages from the main answer book.

Q 10	32-34 pages	Q 21	49 page
Q 11	35-37 pages	Q 22	50 page

15. Please do not write the answers for questions, in the pages with question number printed differently. Such answers either it will not be evaluated or marked in appropriately by the evaluator.
16. Each question number will begin in a fresh page.
17. Students should not spill over the answers to the other pages, which are designated for the different questions.
18. Students are instructed not to strike off the question number printed on the pages and write the answers for different questions.
19. Students are instructed not to tamper or overwrite the barcodes printed on the booklet.
20. Invigilator are instructed to strike off the empty pages and Room Superintendent must ensure that it is done by the Invigilator. Alternatively, students may be instructed to strike off the empty pages and Invigilator and Room Superintendent must ensure it.

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To be retained with the answer book

Part - III

**To be filled by Invigilator**

Q.P. Code: 2857

Exam Date: 06/11/23

**To be filled by Custodian**

Serial No. in the Packet:     

Degree/Diploma : PHARM D

Exam & Subject : MICROBIOLOGY



**To be filled by Custodian**

Q.P. Code:     

Packet No.:     

Sl. No. in packet:   

**FOURTH VALUATION**  
**To be filled by Examiner**



Q. No.	MARKS	Q. No.	MARKS	Q. No.	MARKS	Q. No.	MARKS	Q. No.	MARKS	Q. No.	MARKS
1		6		11		16		21		26	
2		7		12		17		22		27	
3		8		13		18		23		28	
4		9		14		19		24		29	
5		10		15		20		25		30	
Sub Totals											

Grand Total
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1
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9
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9

RGUHS Part - VII

(Grand Total in words):

Name of the Examiner: \_\_\_\_\_

Signature of the Examiner with date: \_\_\_\_\_

Note: Please refer instructions over leaf carefully before entering marks.

Grand Total   

Please tear along the dotted line

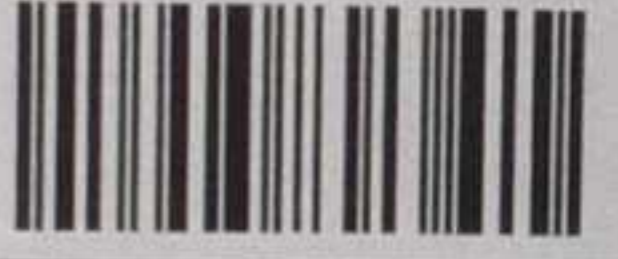
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**To be filled by Custodian**

Q.P. Code: 2857

Packet No.:     

Serial No. in the packet:    



Exam Date: 06/11/23

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CUSTODIAN

RGUHS Part - II

Please tear along the dotted line

Please cut through the dotted line



### GENERAL INSTRUCTIONS CONTINUED (Not applicable to BDS students)

9. This answer booklet is having a total of 56 pages including cover pages.
10. Each page has a barcode. Please verify that received answer booklets for total number of pages and barcodes on each page. If they are not found in any page, then please inform the invigilator before the beginning of examination and you can request for another booklet.
11. Please verify that on each page below the barcode question number is printed. If it is not printed in any page, please inform the same to the invigilator and request for another booklet, before the beginning of examination.
12. Please note that, each question number is marked for definite number of pages in the answer booklet.
13. If all the question numbers are not printed in the answer booklets, then such answer booklets are to be replaced with correct one before the beginning of examination.
14. Students are instructed to write the answers for a question in the designated pages only, where the question number is mentioned.

Question No.	Answers to be written in the Page Nos.	Question No.	Answers to be written in the Page Nos.
Q 1	01-05 pages	Q 12	38-40 pages
Q 2	06-10 pages	Q 13	41 page
Q 3	11-13 pages	Q 14	42 page
Q 4	14-16 pages	Q 15	43 page
Q 5	17-19 pages	Q 16	44 page
Q 6	20-22 pages	Q 17	45 page
Q 7	23-25 pages	Q 18	46 page
Q 8	26-28 pages	Q 19	47 page
Q 9	29-31 pages	Q 20	48 page
Q 10	32-34 pages	Q 21	49 page
Q 11	35-37 pages	Q 22	50 page

15. Please do not write the answers for questions, in the pages with question number printed differently. Such answers either it will not be evaluated or marked in appropriately by the evaluator.
16. Each question number will begin in a fresh page.
17. Students should not spill over the answers to the other pages, which are designated for the different questions.
18. Students are instructed not to strike off the question number printed on the pages and write the answers for different questions.
19. Students are instructed not to tamper or overwrite the barcodes printed on the booklet.
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DO NOT WRITE

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Q.No.01



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Q.No.01



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2. Hot air oven.

Principle

sterilization using Hot air oven is proceed through dry heat method.

Heat is maintained and proceed and later absorbed by the surface sent to the center of the system.

It Act by destroy the oxydizing cells of the microorganism and other essential particles of the microorganism.

After destoying the oxydizing cells and and other molecules the microorganism faces dysfunction due to lack of ~~nutritional~~ nutritional requirements and general function, microorganism got destroyed.



## Procedure

① The contents which tend to be sterilized put / keep in the Hot air oven.

② The heater and fans are turned on.

③ Thermocouples placed in the hot air oven.

→ Thermocouples indicates the temperature at the center of the ~~envi~~ entire environment as well every point of the environment.

④ After this desired / standard temperature is fixed.

→ Temperature should not deviate  $\pm 5^\circ\text{C}$  while sterilization proceed.

in the ~~particats~~ particats inside sterilization

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⑤ This process continued for desired time of period.





⑥ When the sterilization completed current is withdrawn.

⑦ Hot air oven is allowed to cool.

⑧ The door is closed until the inside environment come to osmotic condition.

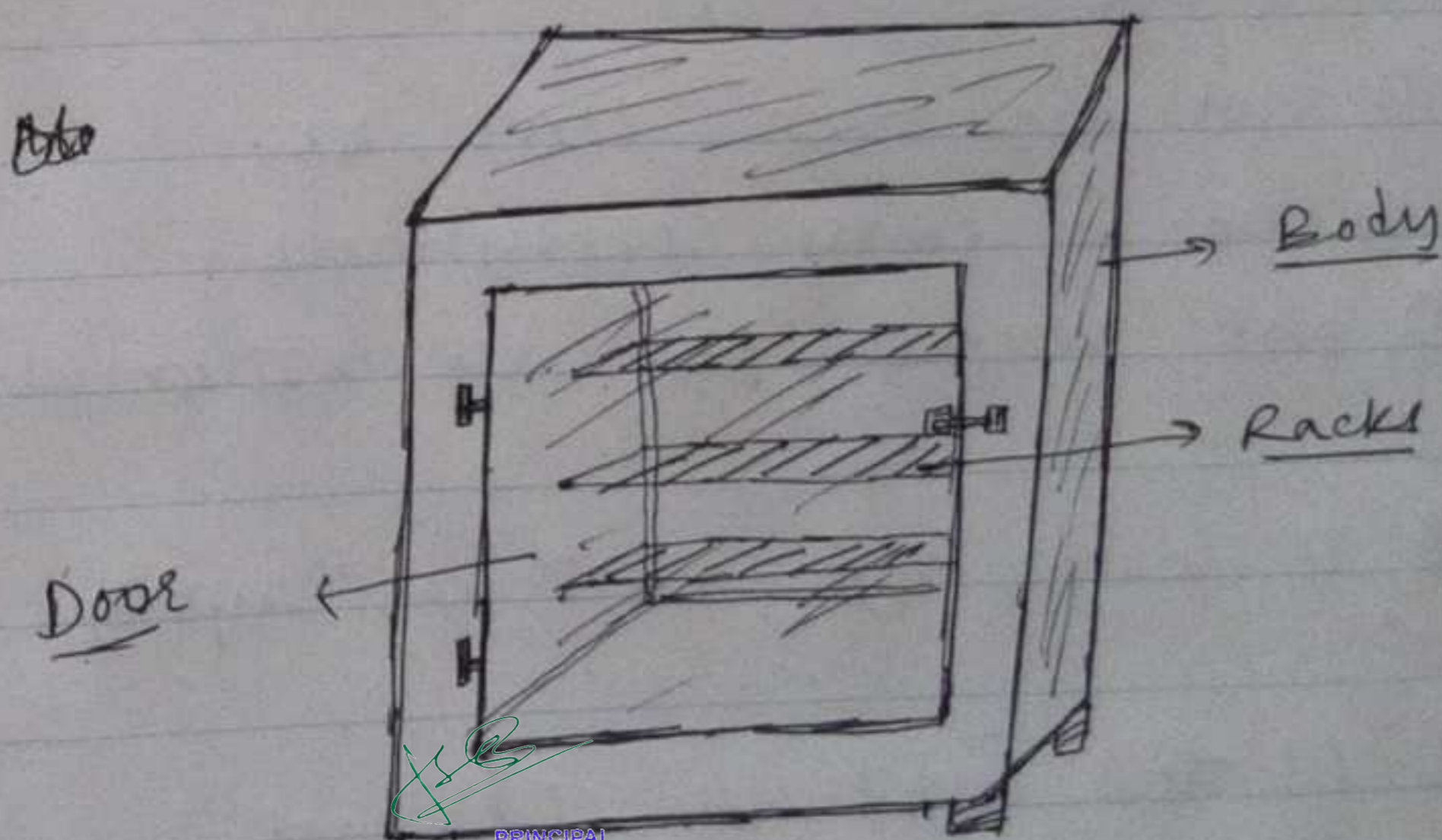
⑨ After that the door is opened and unloaded.



Q.No.02

### Application

- ① Hot air oven is used to sterilize medical instruments like syringe, metallic, steel materials.
- ② Use to sterilize powder, oil etc.
- ③ Used to sterilize laboratory instruments and useful in microbiological assay.
- ④ Use to disinfection of wide range of medical products.



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Hot air oven



## Merits

- ① Useful in sterilizing medical instruments like syringes, canoes, blades, bowls, metallic products.
- ② Useful in sterilizing powders, oils
- ③ Useful in microbiological assays
- ④ sterilize test tubes, glassware, plates.



## Demerits

- ① Hot air oven can't be placed or carry everywhere.
- ② Not useful for all instruments
- ③ It needs high electrical supply.
- ④ Plastics can't be sterilized because of high temperature.
- ⑤ Bandage, cotton products, septic bands can't be sterilized because in the previously moisture is added.

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③ Antigen - Antibody reactions.

- ① Precipitation
- ② Agglutination
- ③ Enzyme immuno Assay
- ④ Radio immuno assay
- ⑤ Western blotting
- ⑥ Chemiluminescence
- ⑦ Immuno-electron microscopy
- ⑧





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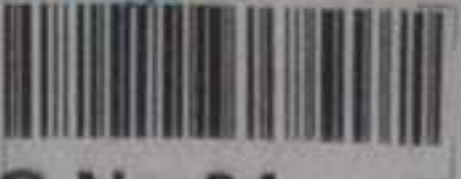
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1.Acid-fast staining.ReagentMediaReagent

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Q.No.04



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b.

## Disinfectants

### Classification.

(i) Surfactant

eg → soap.

(ii) Phenol supplements.

eg → Phenyl.

(iii) Acid

eg → Lactic

(iv) Aldehyde

eg → Formaldehyde.

(v) Alcohols

eg → Ethylene.

(vi) Oxidizing agents

eg → copper sulphate

(vii) Halogenes

eg → Cobalt

(viii) Metallic products components

eg → copper.



## Properties of ideal disinfectant

- ① Disinfectants should be ideally concentrated for actual rapid action.
- ② Ideal disinfectant should have rapid action with short duration.
- ③ Disinfectants should not have side effects.
- ④ Ideal disinfectants - should be cost efficient. sold at low cost for sufficient use.
- ⑤ Ideal disinfectant should produce action with balancing much number of factors. like time, pH, temperature.
- ⑥ Ideal disinfectant should have low surface tension for wide action.
- ⑦ should follow germicidal coefficient value.

*YSB*



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## 7. Bacterial growth curve.

When bacteria are left in a fresh media they show various differences in size or number due to various factors with time.

For this differentiated bacterial growth curve is differentiated into 4 parts -

- (a) Lag phase.
- (b) Log phase
- (c) Initial stationary phase
- (d) Decline phase

(a) Lag phase : In this phase increase in bacterial size is seen and metabolic rate is also increase.





### (b) Log phase

In this phase number of bacteria doubles with each generation of time increases.

### (c) Stationary phase

In this phase the rate of multiplication and death of bacteria become same due to -

- (i) Depletion of nutrients
- (ii) Toxic accumulation.

### (d) Decline phase

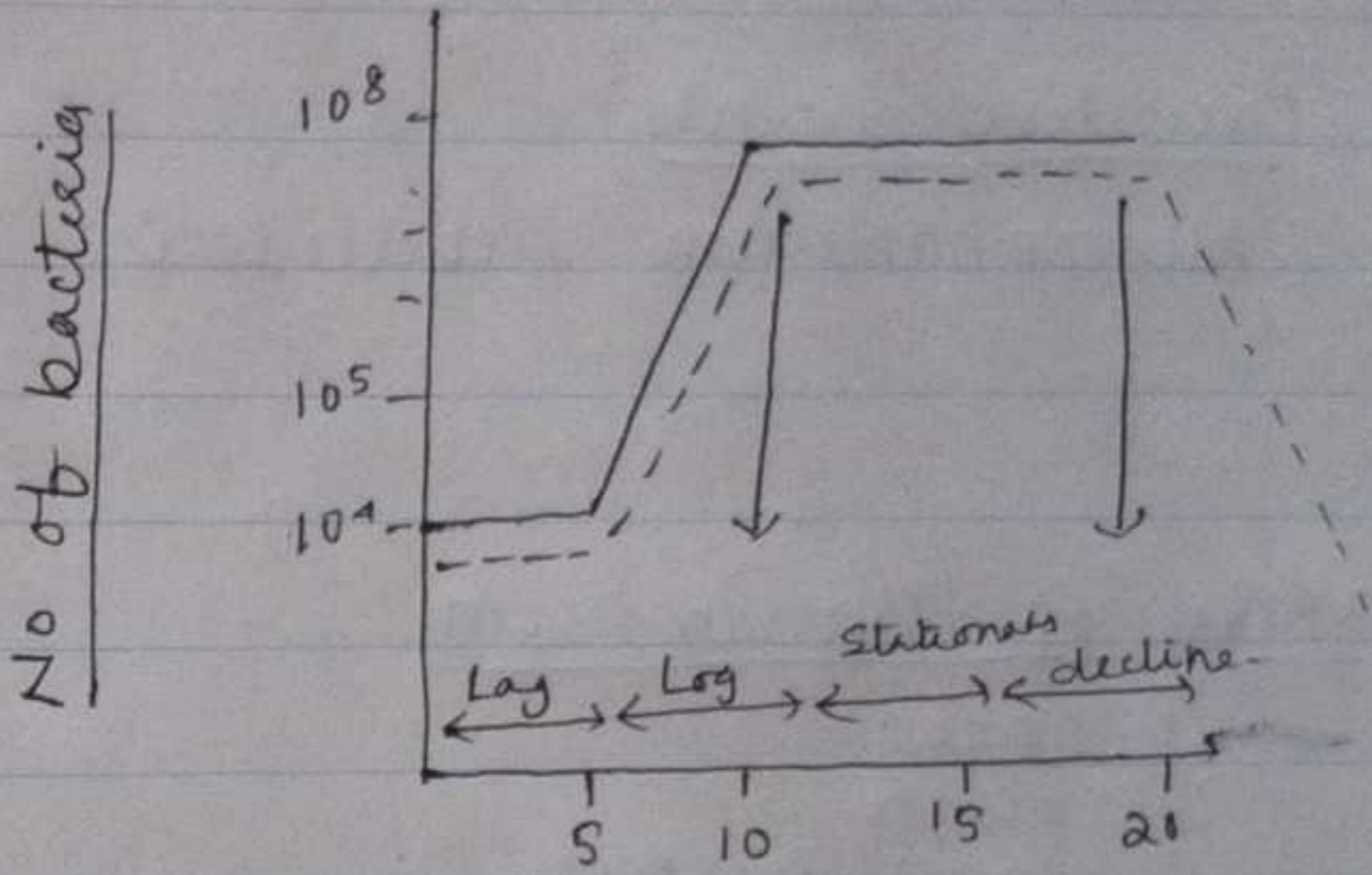
In this phase number of bacteria become reducing continuously due to death because of -

- (i) Toxic accumulation
- (ii) Lack of nutrients.



Q.No.07

# Bacterial growth curve



Generation of time



8.

Tuberculosis.Causative agents

Mycobacterium Tuberculosis.

Mode of transmission.

- (i) sneez
- (ii) cough
- (iii) Nasal particle
- (iv) spit
- (v) Blood sharing.

Signs and symptoms

- (i) eye damage.
- (ii) white spots on body
- (iii) Ulcer
- (iv)

Diagnosis: (i) AFB test  
(ii) Blood culture

TreatmentPRINCIPAL  
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Rifampine.



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Q.No.09



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Q.No.09



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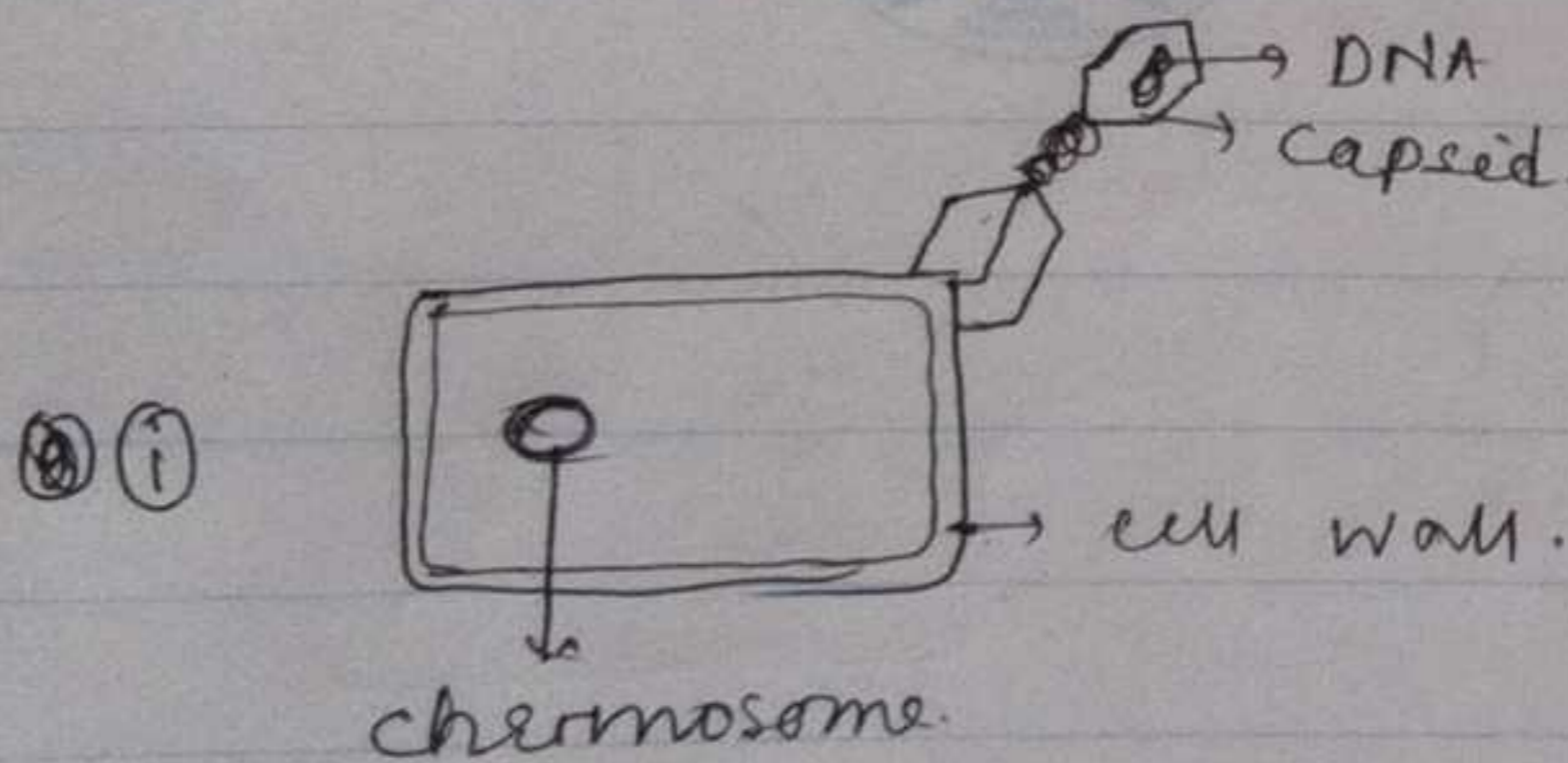


## 10- Replication of virus.

Viruses are replicated with a series of steps which is a serial ~~me~~ steps those are mentioned below —

(i) Attachment: A weak bond is formed between the receptor site and reactant's site.

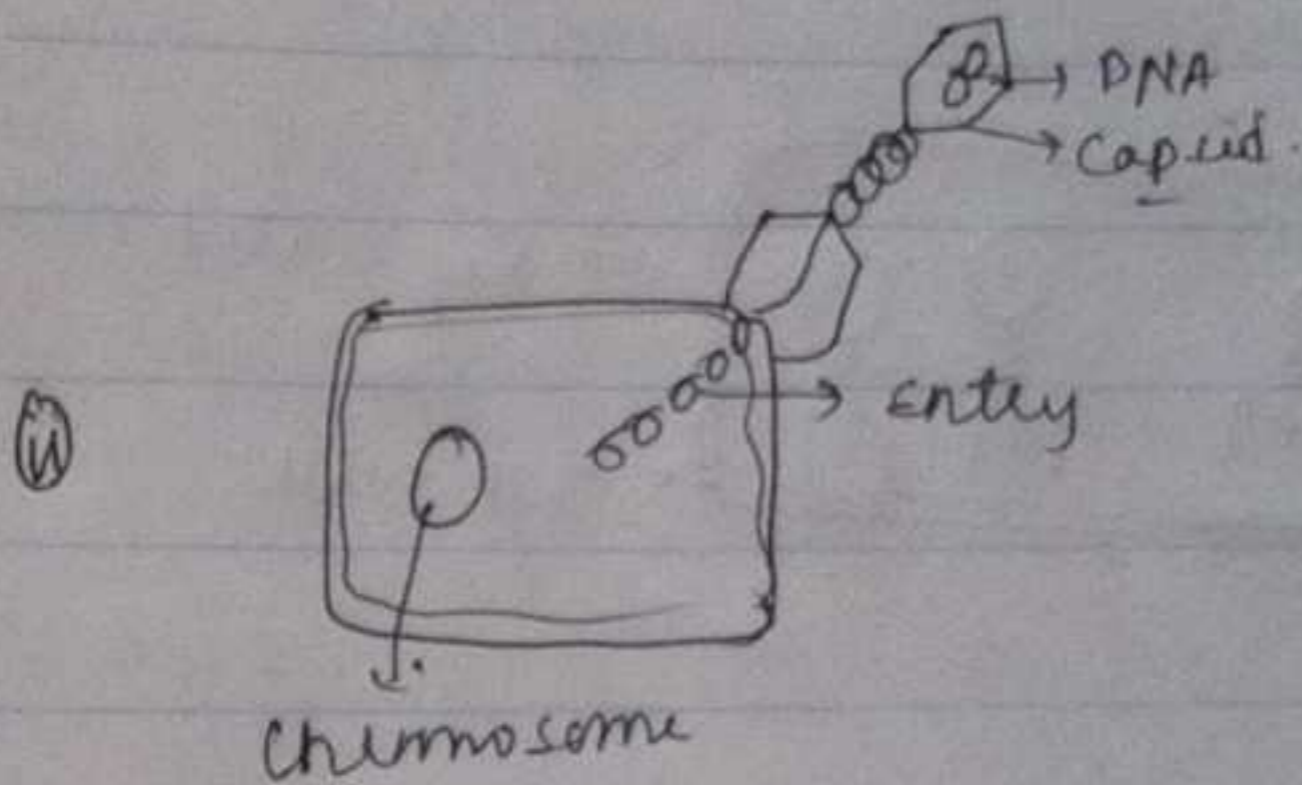
This bond helps in further chemical reactions.



(ii) Entry: The cytoplasm makes a hole on the cell wall for entry of the DNA ~~of~~ from capsid.

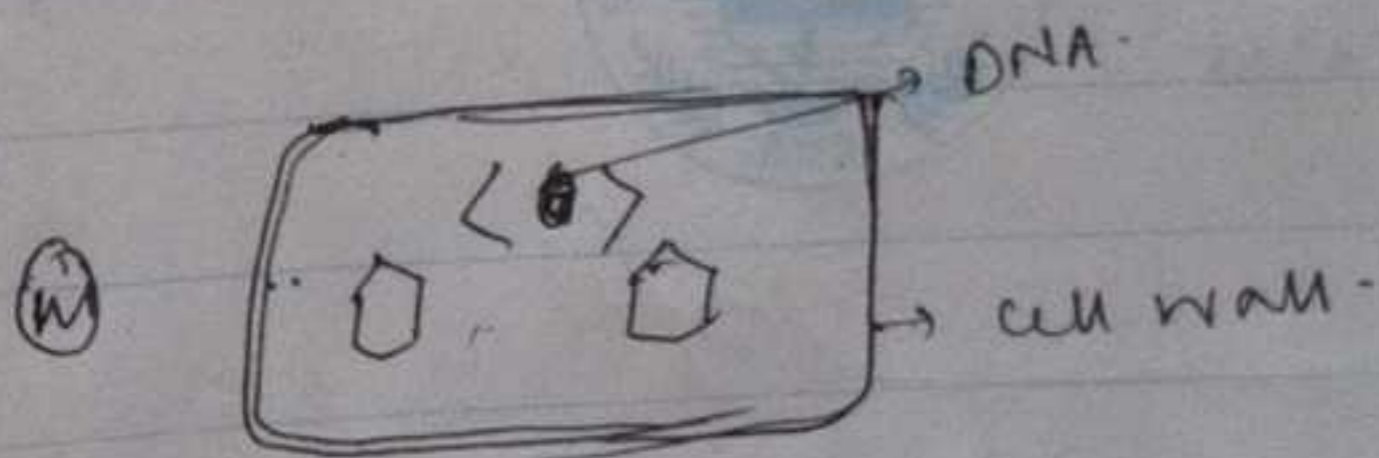


Q.No.10



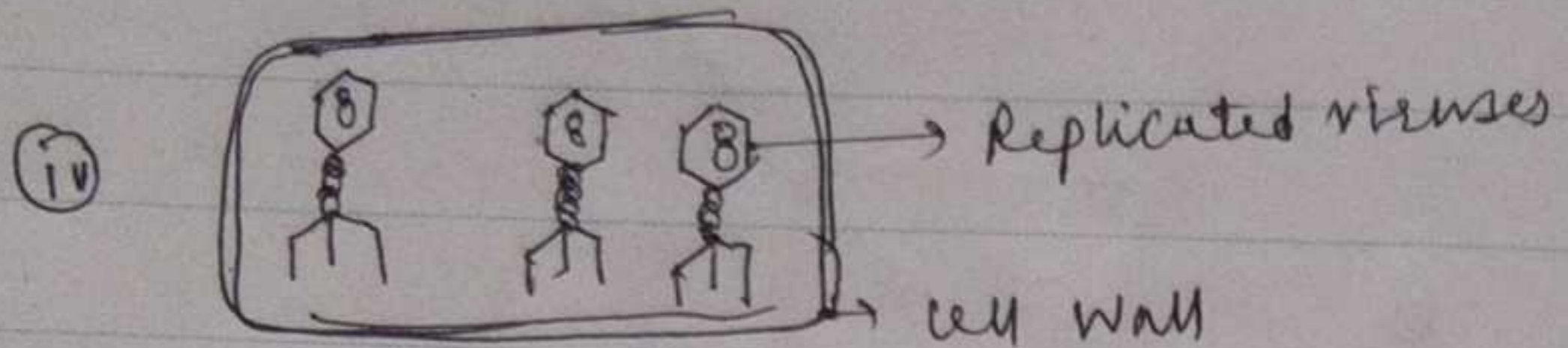
(iii) Biological synthesis

The DNA will use the chromosome and ribosome for protein synthesis for replication.



(iv) Maturation →

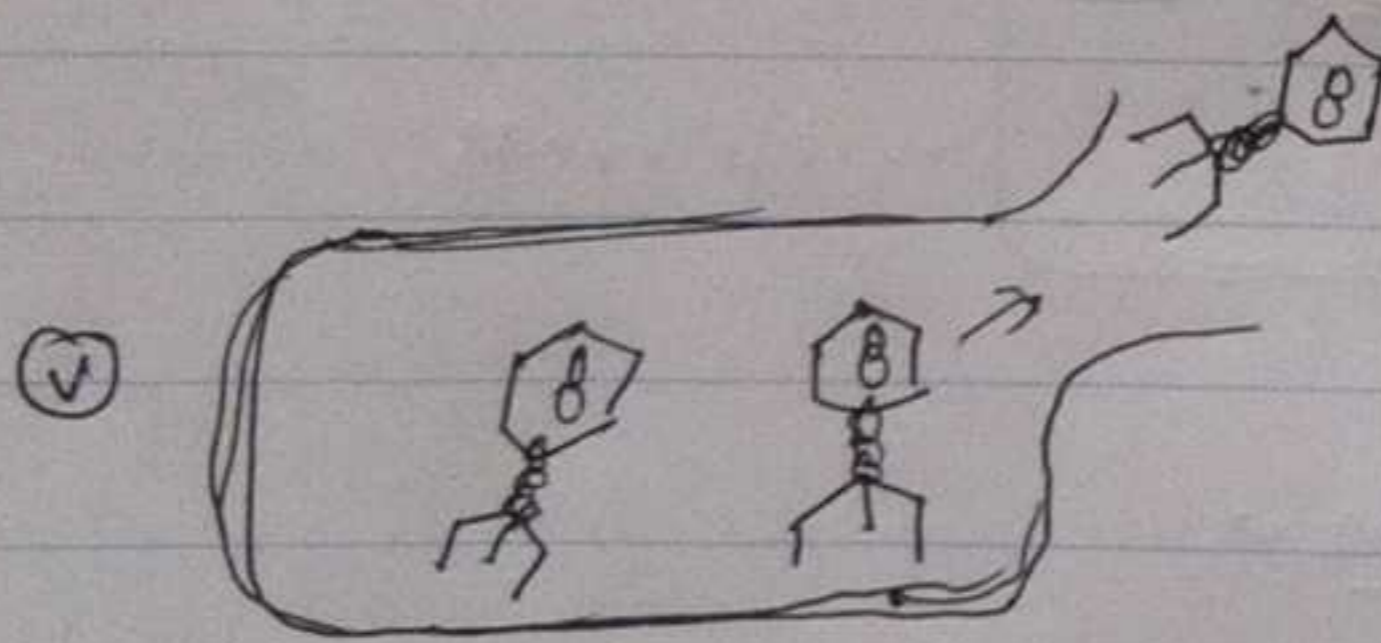
With supplied nutrients and all the essential viruses will be made up inside the surrounding cell wall in replicated number.



### (v) Release

At last when viruses formed are released from inside.

Now the virus is actually replicated.



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Q.No.11

1.1

## Two methods of viable count of bacteria

### Roll tube method.

Solution containing microorganisms are placed in test tube which is previously containing pure culture.

The test tube is then horizontally placed on the palm and started to roll under the blow of cold water until a monolayer is formed on the surface of the fluid in test tube.

### Cup plate method.

Agar is melted and spread on a petridish and allowed to cool and solidify.

Then a well type hole is made and suspension contains



microorganism is placed inside the well.

Zone of inhibition is seen at many parts on the agar media.

measure the zone and ~~area~~ calculate the bacteria counting on basis of surface area and diameter.





Q.No.11



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12. Koch's postulates

→ lesion inside disease  
⇒ we isolate in blood



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Q.No.12



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13. Chemicals used in GASPARK system.

- (a) citric acid
- (b) sodium chloride.
- (c)

In addition of water it produces  
CO<sub>2</sub> and Hydrogen





14. Gaseous sterilization sterilants

(a) Ethylene oxide.

(b) Formaldehyde

(c) Chloride.

(d)  $\beta$  propio lactone

(e) Ozone.





Q.No.15

15. Drugs used in the treatment  
of AIDS.

(a) Zidovudine + Lamivudine  
+ Nevirapine.

(b) AZT  
AZT



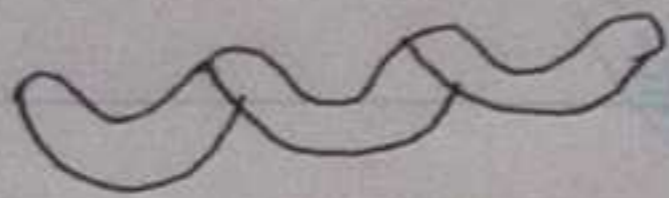


1b. Spirochetes

Spirochetes are the bacteria under spiral morphological characteristics.

Spirochetes use ~~Means~~ Moens and flagella for movement.

They are chain like structures one attached with another's end.



spirochetes.



## Booster dose

In older age Immunity ~~is~~ decreased.

To ~~to~~ increase or balance immunity in older persons to boost immunity Booster dose is given





18. Application of UV rays

① sterilization of Air.

Demerits → skin cancer.

Radiotoxicity





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Q.No.19

19. Enriched media.

Enriched medias are used for growth of ~~culture~~ bacteria these are mixed with blood fermented blood, agar derivatives.

eg → Blood agar.

Chocolate agar.



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20 Pharmaceutical uses of  
fungi

① Depending on growth  
a) vaccines b) antibiotics are tested  
for preparation.

② culture media preparation





Q.No.21

21. Bacterial spore

(a) chloblastospores

(b) Basidiospores

(c) Conidiospores

(d) streptogenous spores

(e)





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PART - VIII



Q.P. Code [ ][ ][ ][ ]

Packet No. [ ][ ][ ][ ]

Sl. No. in packet [ ][ ]

RGUHS

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Q.P. Code [ ][ ][ ][ ]

Packet No. [ ][ ][ ][ ]

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THIRD VALUATION  
To be filled by Examiner

RGUHS

Part - VI

Q. No.	MARKS	Q. No.	MARKS	Q. No.	MARKS	Q. No.	MARKS	Q. No.	MARKS	Q. No.	MARKS	Grand Total
1		6		11		16		21		26		
2		7		12		17		22		27		
3		8		13		18		23		28		
4		9		14		19		24		29		
5		10		15		20		25		30		

Sub Totals

Grand Total [ ][ ]

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Name of the Examiner:

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Packet No. [ ][ ][ ][ ]

Sl. No. in packet [ ][ ]

SECOND VALUATION  
To be filled by Examiner

RGUHS

Part - V

Q. No.	MARKS	Q. No.	MARKS	Q. No.	MARKS	Q. No.	MARKS	Q. No.	MARKS	Q. No.	MARKS	Grand Total
1		6		11		16		21		26		
2		7		12		17		22		27		
3		8		13		18		23		28		
4		9		14		19		24		29		
5		10		15		20		25		30		

Sub Totals

Grand Total [ ][ ]

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Q.P. Code [ ][ ][ ][ ]

Packet No. [ ][ ][ ][ ]

Sl. No. in packet [ ][ ]

FIRST VALUATION  
To be filled by Examiner

RGUHS

Part - IV

Q. No.	MARKS	Q. No.	MARKS	Q. No.	MARKS	Q. No.	MARKS	Q. No.	MARKS	Q. No.	MARKS	Grand Total
1		6		11		16		21		26		
2		7		12		17		22		27		
3		8		13		18		23		28		
4		9		14		19		24		29		
5		10		15		20		25		30		

Sub Totals

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