



গড়গাঁও মহাবিদ্যালয়  
GARGAON COLLEGE

**USE OF ICT-ENABLED TOOLS  
BY TEACHERS  
FOR  
EFFECTIVE TEACHING-LEARNING  
PROCESS  
(2020-21)**

**Department of Zoology**



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## OVERVIEW

ICT enabled tools are used by the faculty members of the Department of Zoology.

- **Power Point Presentation and other resources.**
- **Google classroom**
- **Zoom/Google Meet/ Cisco Webex**
- **WhatsApp Groups**
- **E-Shiksha: An E-Learning Platform for The Students of Gargaon College, a platform for e-learning exclusively for the students.**

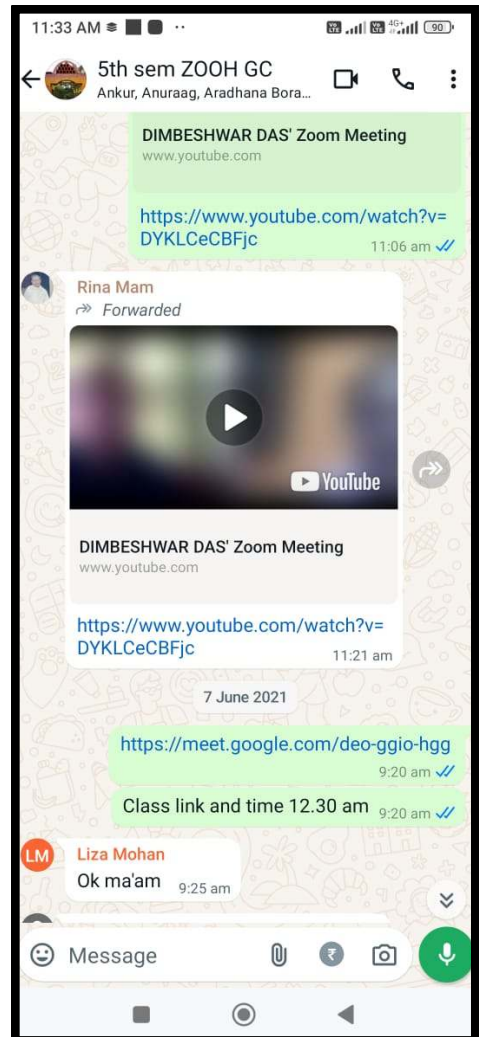
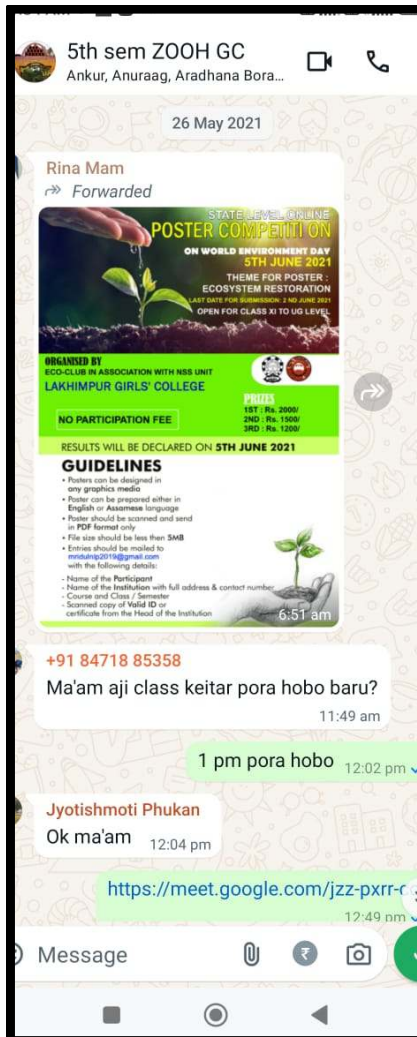
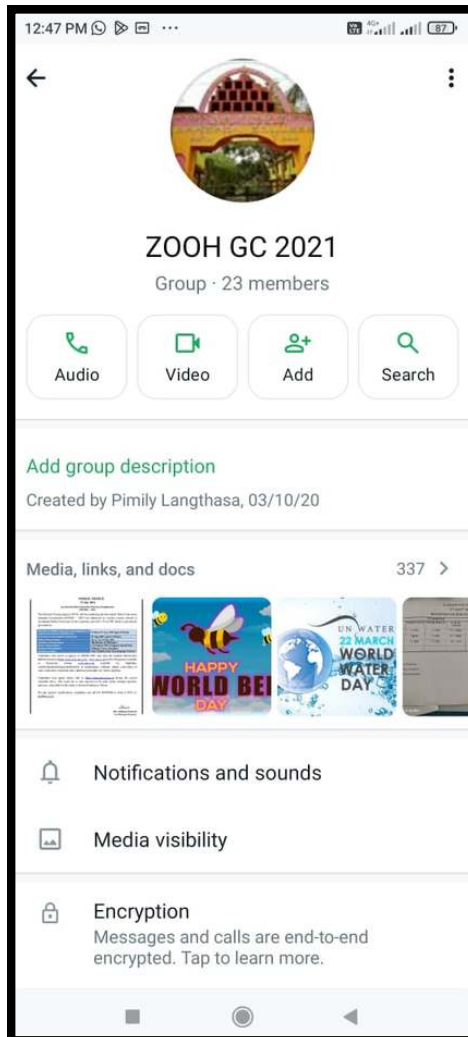
**LINK OF THE DEPARTMENTAL PAGE OF E-SHIKSHA PORTAL**

**<https://gargaoncollege.ac.in/eshiksha/zoology/>**

**Dr. Rina Handique**

**Associate Professor, Department of Zoology, Gargaon College**

**SAMPLE SCREENSHOT OF USE OF ICT- ENABLED TOOLS**



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**Pimily Langthasa**

**Assistant Professor, Department of Zoology, Gargaon College**

**SAMPLE OF GOOGLE CLASSROOM SCREENSHOT**

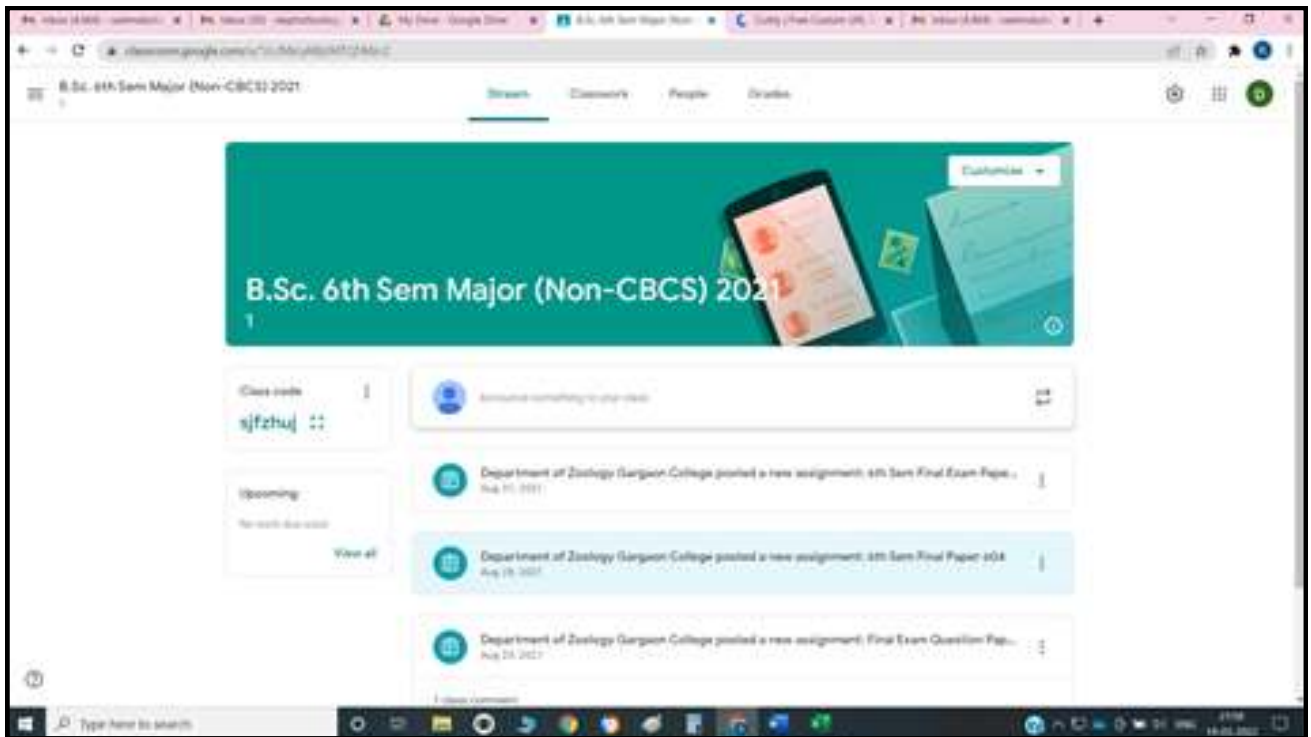


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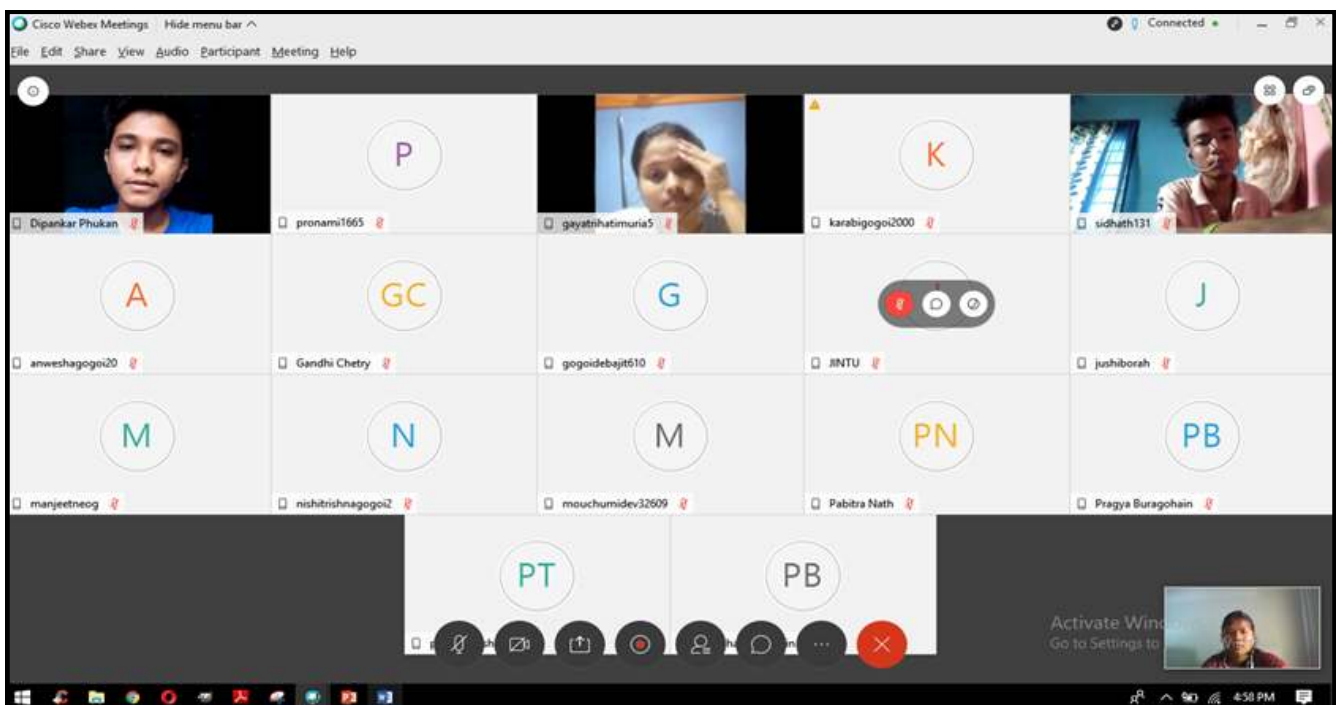


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### SAMPLE OF GOOGLE CLASSROOM SCREENSHOT



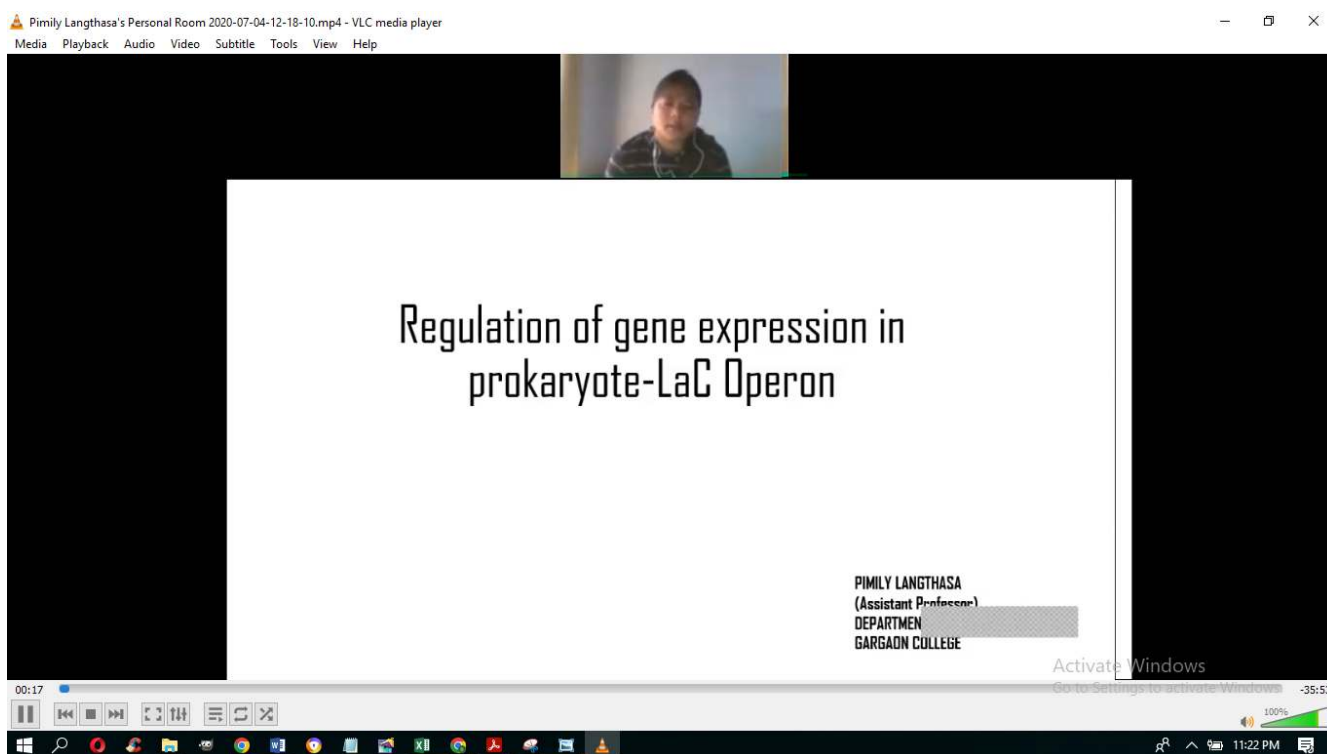
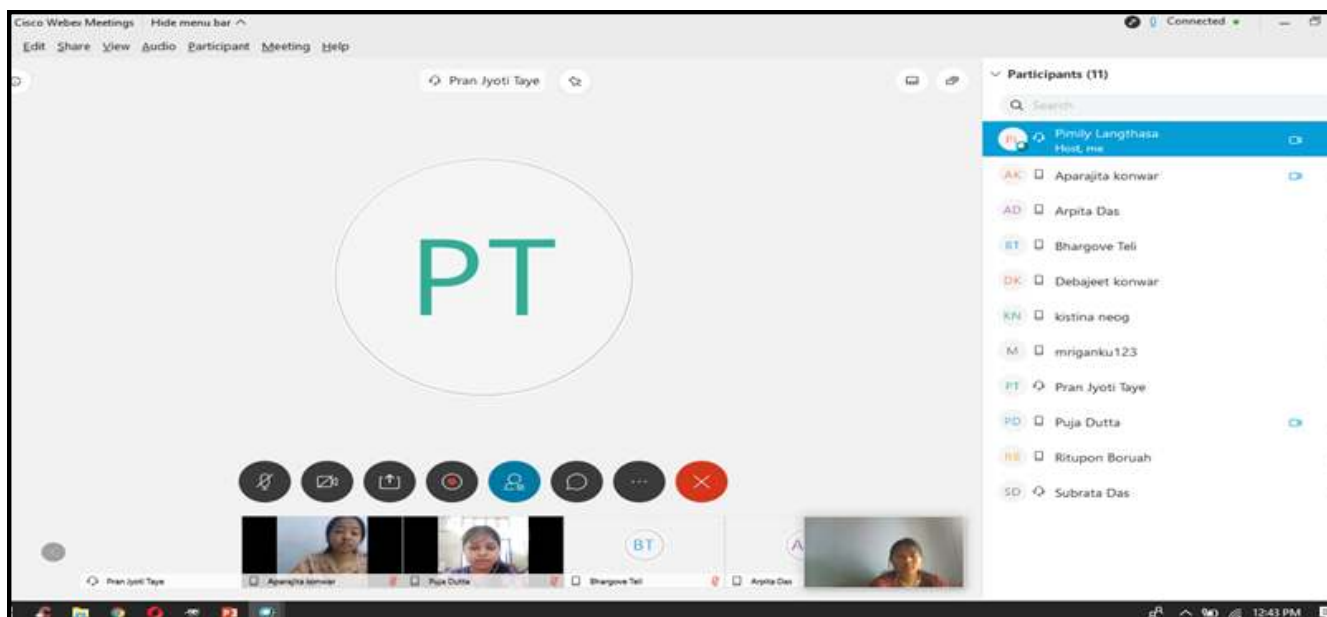
### SAMPLE SCREENSHOT OF USE OF ICT- ENABLED TOOLS



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**SAMPLE SCREENSHOT OF USE OF ICT- ENABLED TOOLS**



### SAMPLE SCREENSHOT OF USE OF ICT- ENABLED TOOLS

Pimily Langthasa's Personal Room 2020-07-02-16-26-38.mp4 - VLC media player  
Media Playback Audio Video Subtitle Tools View Help

**A). APPROACH OF SPERM:**

In one ejaculate about 3-3.5ml of semen is deposited in the vagina (200-300 millions sperms).

**Factors helping sperms to move-** lashing movements of the tail, prostaglandins (causing contraction between vaginal and the uterine part, from vaginal to fallopian tube), aspiratory movement of the uterus

**Factor Acting as a barrier:** a) Thick endometrium, b) acidic pH in the female reproductive tract, c) phagocytes in the female reproductive tract.

Only 100 sperms reach the fallopian tubes

Rate of movement of 1-4mm/min

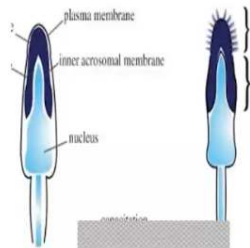
**Capacitation:** The process of capacitation refers to- when the sperms attains the functional maturity.

It takes place in female reproductive tract.

Two important changes that takes place during capacitation-

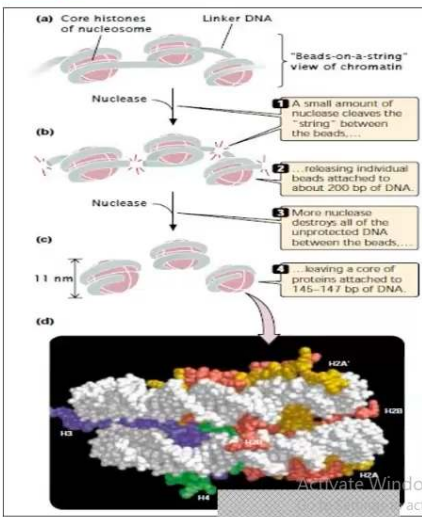
a) removal of glycoproteins and sterols from acrosome membrane

b) Influx of calcium ion (taken in) -sperms become more active



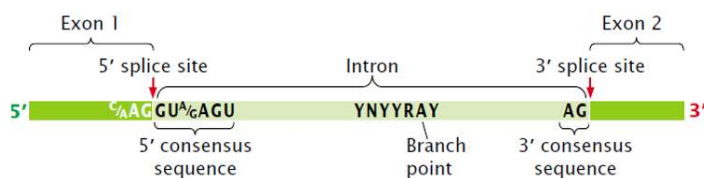
Activate Windows  
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- When chromatin is isolated from the nucleus of a cell and viewed with an electron microscope, it frequently looks like beads on a string (**Figure 2a**)
- If a small amount of nuclease is added to this structure, the enzyme cleaves the string between the beads, leaving individual beads attached to about 200 bp of DNA (**Figure 2b**).
- If more nuclease is added, the enzyme chews up all of the DNA between the beads and leaves a core of proteins attached to a fragment of DNA (**Figure 2c**).
- The repeating core of protein and DNA produced by digestion with nuclease enzymes is the simplest level of chromatin structure, the **nucleosome**.
- The nucleosome is a core particle consisting of DNA wrapped about two times around an octamer of eight histone proteins (two copies each of H2A, H2B, H3, and H4), much like thread wound around a spool (**Figure 2d**).
- Woodcock shows repeated thickenings in the chromatin fibres.
- The term nucleosome was given by Oudet.



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## SAMPLE SCREENSHOT OF USE OF ICT- ENABLED TOOLS

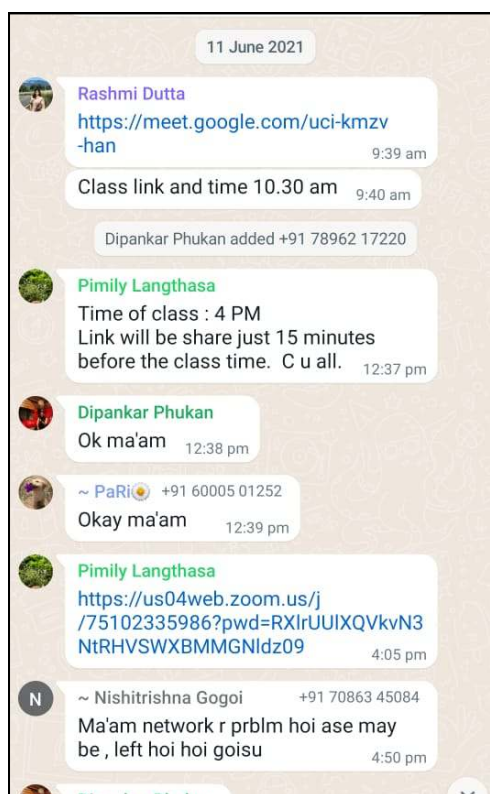


Conclusion: Critical consensus sequences are present at the 5' splice site, the branch point, and the 3' splice site.

- Splicing takes place within a large complex called the **spliceosome**, which consists of several RNA molecules and many proteins.
- The RNA components are small nuclear RNAs; these snRNAs associate with proteins to form small ribonucleoprotein particles.
- Each snRNP contains a single snRNA molecule and multiple proteins.
- The spliceosome is composed of five snRNPs, named for the snRNAs that they contain (U1, U2, U4, U5, and U6), and some proteins not associated with an snRNA.

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## SAMPLE SCREENSHOTS OF WHATSAPP GROUPS

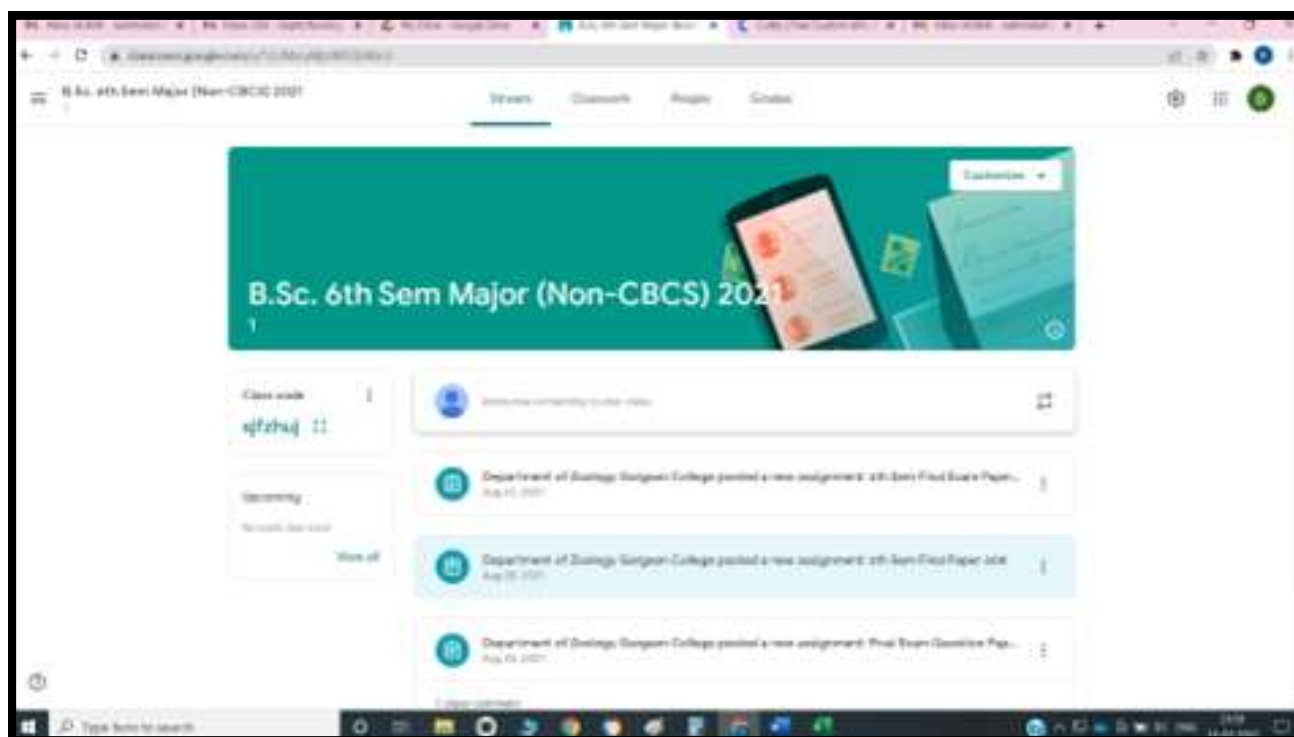




**Dr. Rashmi Dutta**

**Assistant Professor, Department of Zoology, Gargaon College**

***SAMPLE OF GOOGLE CLASSROOM SCREENSHOT***



**Link of the Google Classroom:**

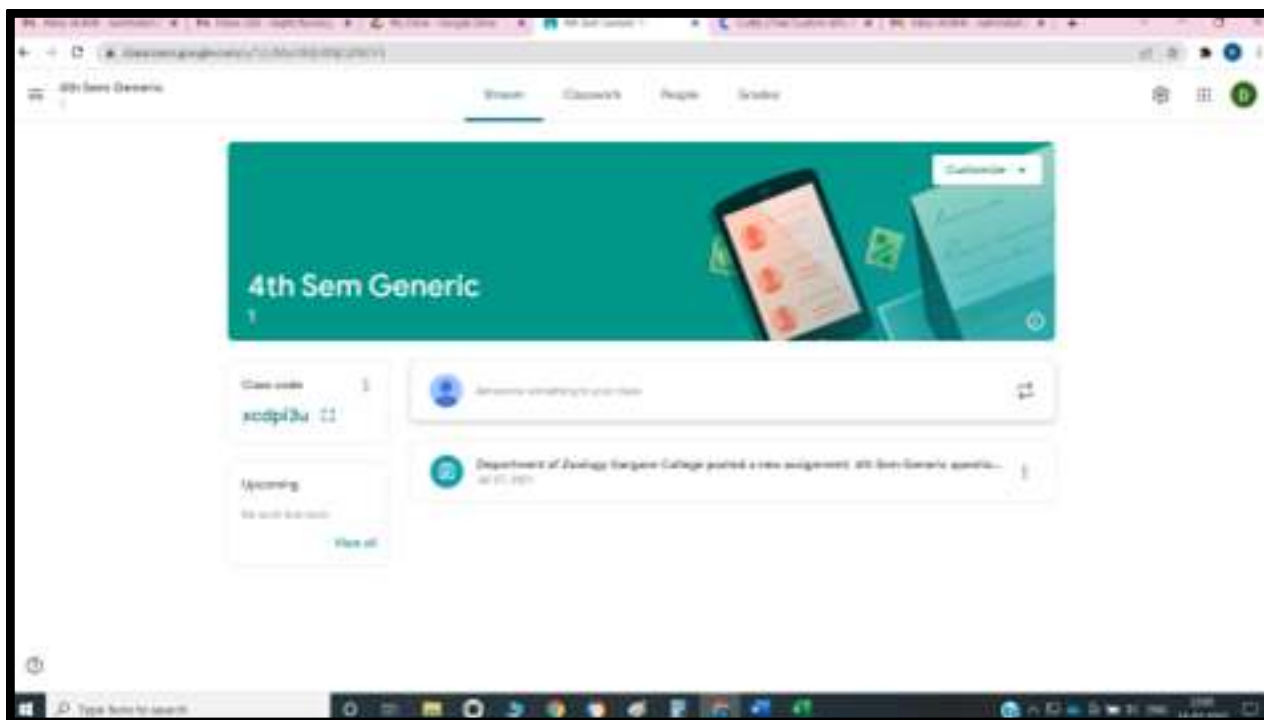
<https://classroom.google.com/c/MzcyMjIzMTQ5Mzc2?cjc=sjfzhuj>

  
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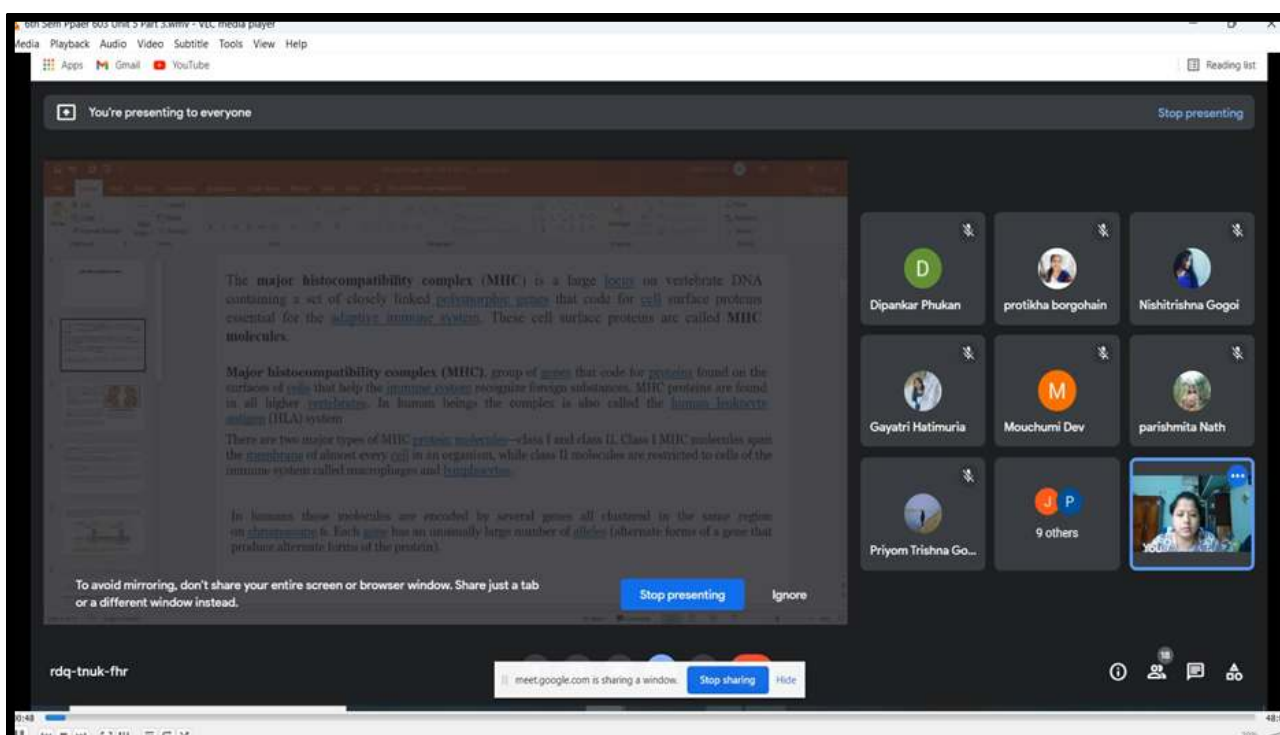


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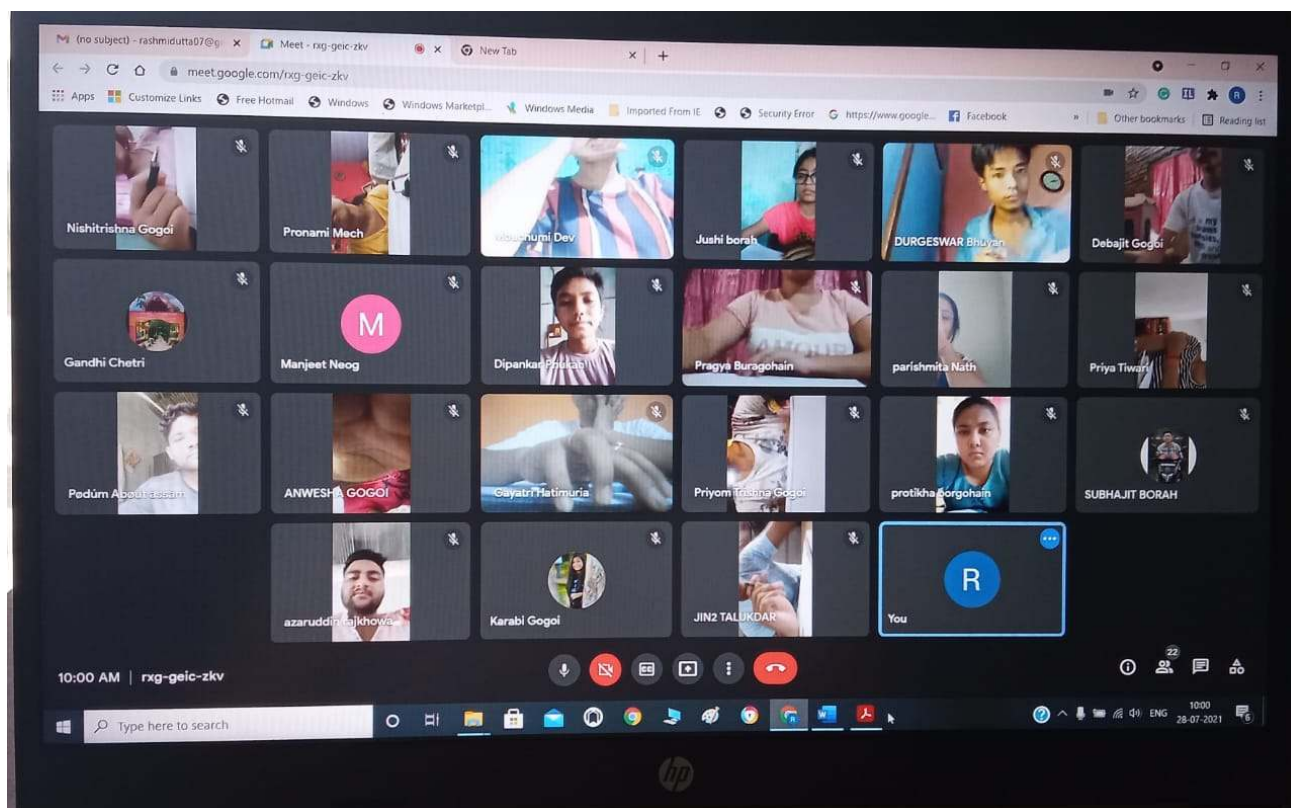


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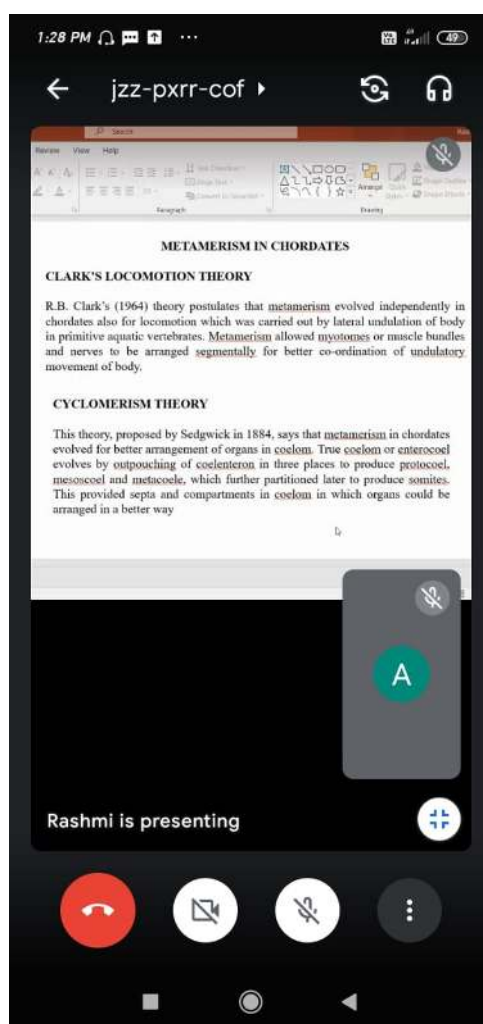
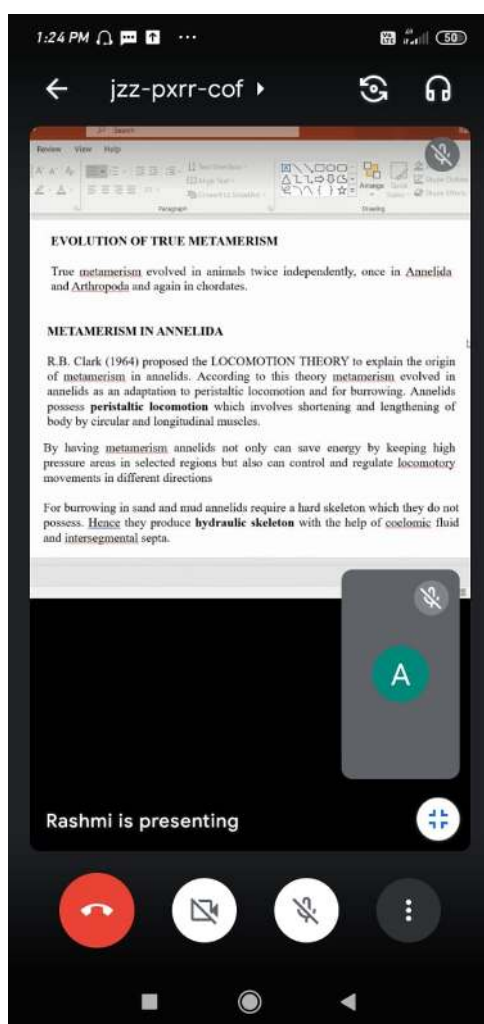
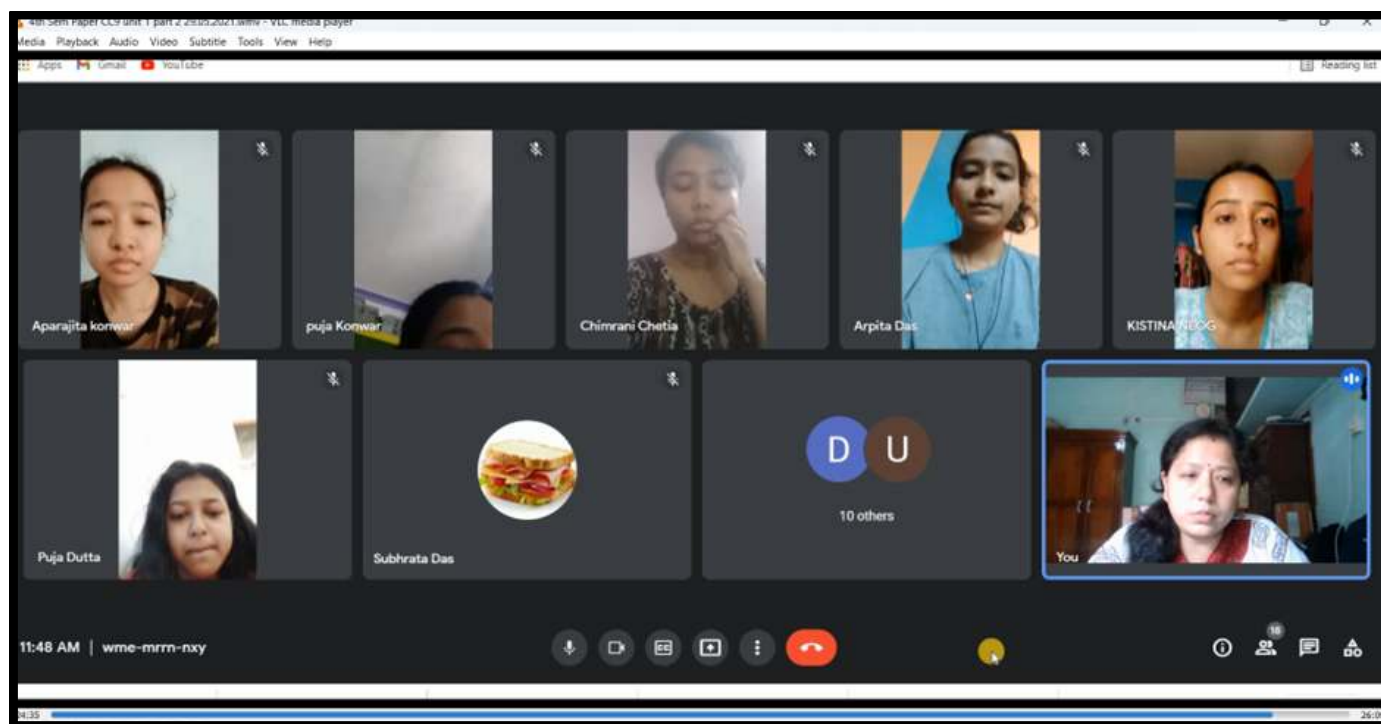
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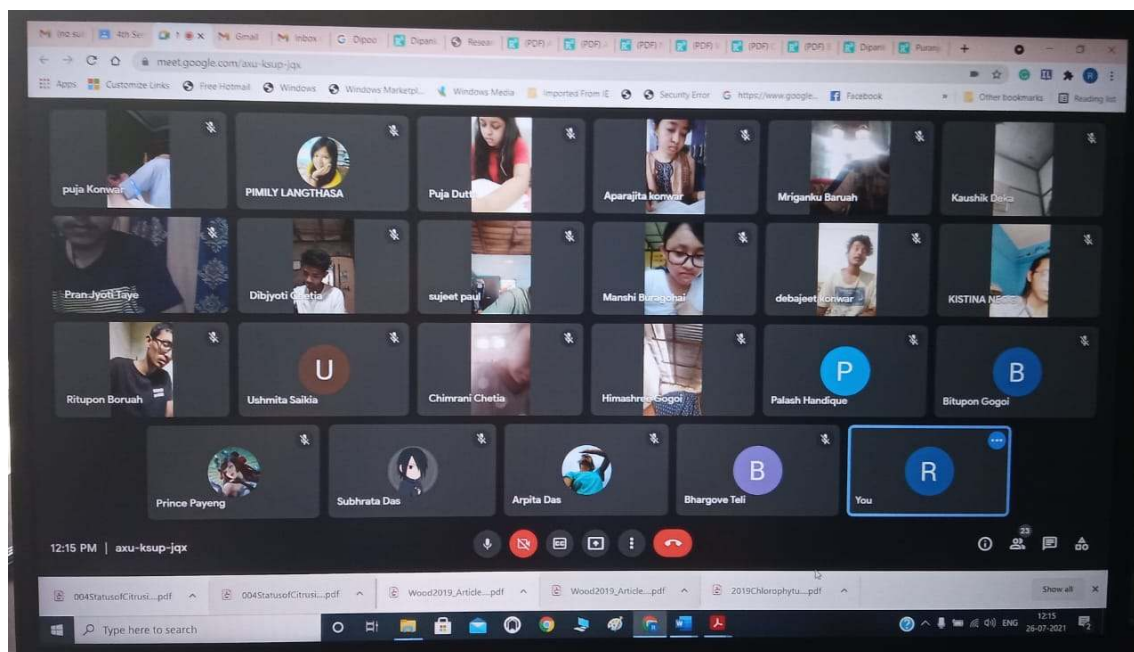
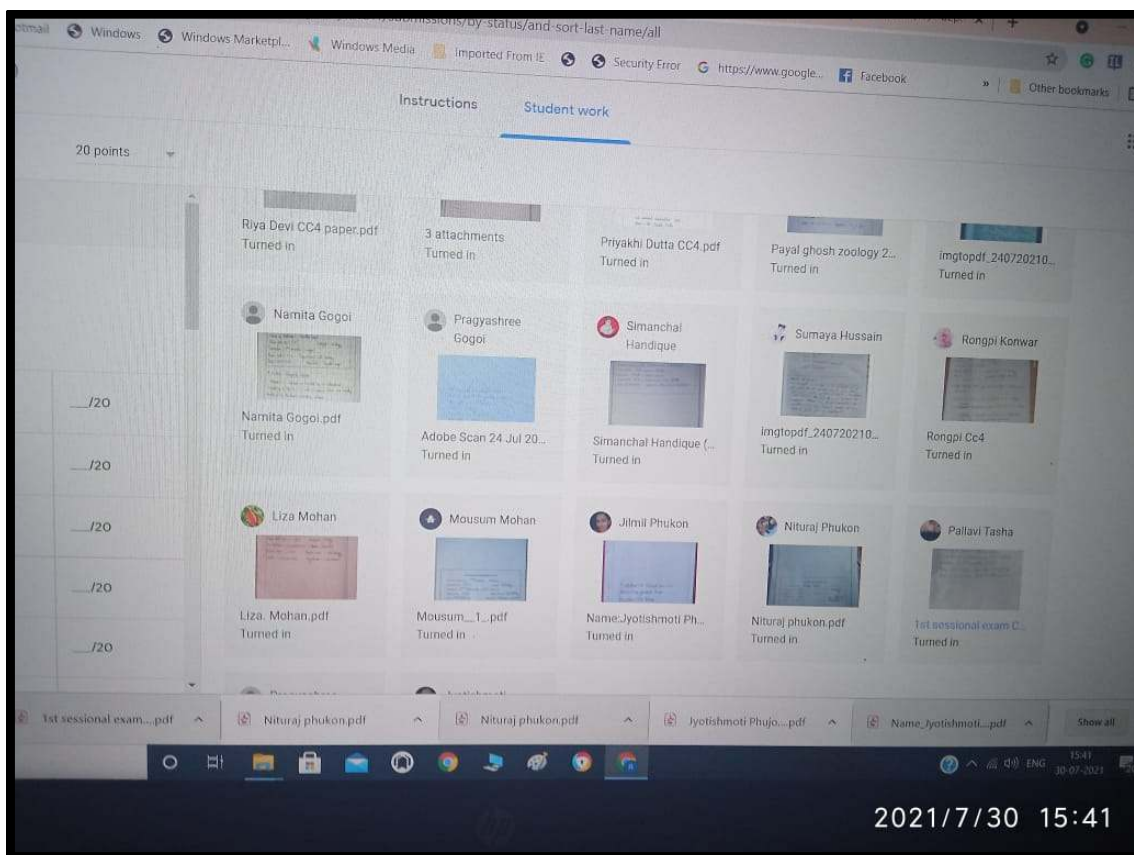






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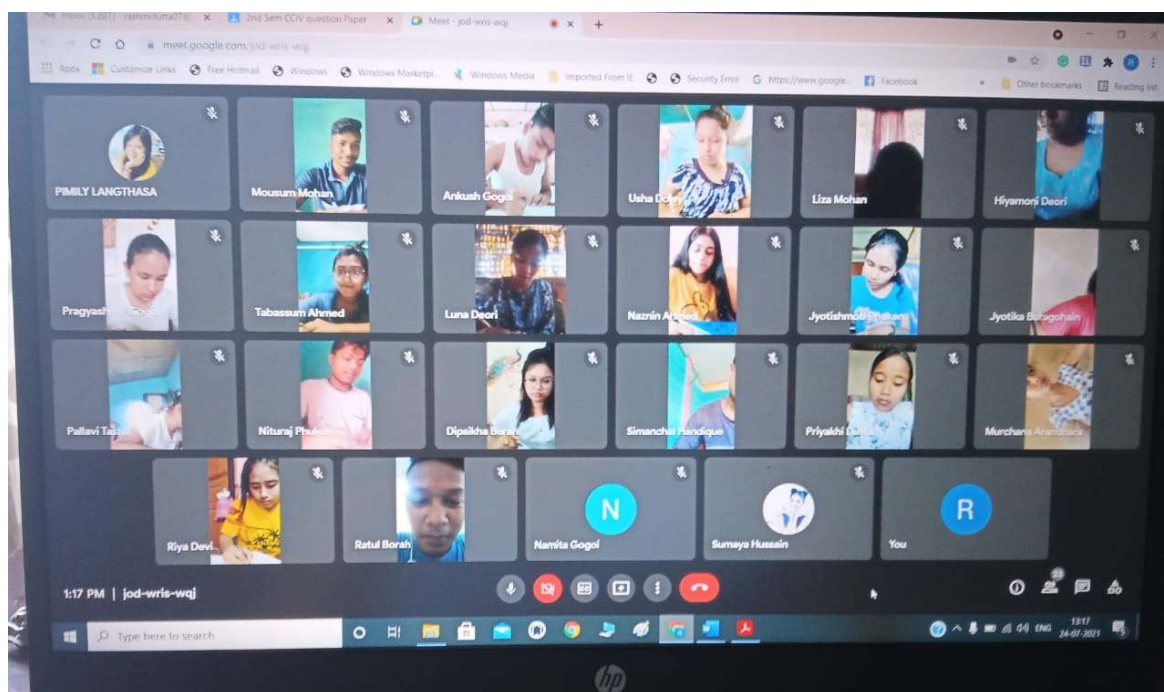


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2021/7/24 13:17

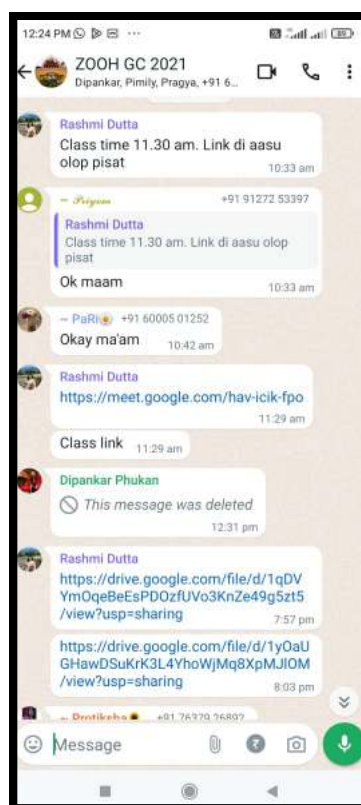
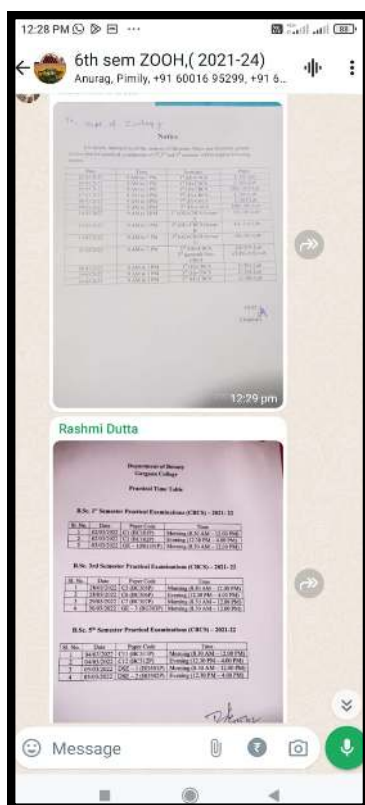
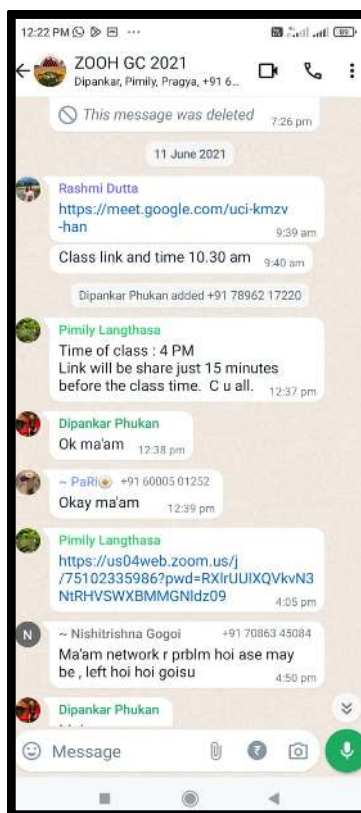
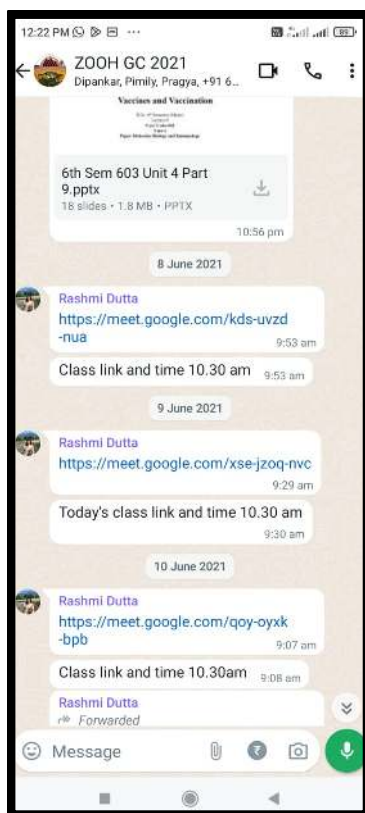
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## SCREENSHOTS OF WHATSAPP GROUPS





**SCREENSHOT OF ONLINE CLASS RECORD, 2020-2021**

Date	Semester	Number of Student Present	Number of Student Absent	Class Link
21.05.2021	6 <sup>th</sup> Sem	14	10	<a href="https://meet.google.com/eje-epnd-vfr">https://meet.google.com/eje-epnd-vfr</a>
22.05.2021	6 <sup>th</sup> Sem	20	4	<a href="https://meet.google.com/hav-icik-fpo">https://meet.google.com/hav-icik-fpo</a>
	4 <sup>th</sup> Sem	18	3	<a href="https://meet.google.com/ntj-dfcf-scj">https://meet.google.com/ntj-dfcf-scj</a>
	2 <sup>nd</sup> Sem	22	4	<a href="https://meet.google.com/xck-zgsn-uko">https://meet.google.com/xck-zgsn-uko</a>
24.05.2021	6 <sup>th</sup> Sem	17	7	<a href="https://meet.google.com/fxj-uqve-bki">https://meet.google.com/fxj-uqve-bki</a>
	4 <sup>th</sup> Sem	19	2	<a href="https://meet.google.com/tus-fnbm-xnm">https://meet.google.com/tus-fnbm-xnm</a>
	2 <sup>nd</sup> Sem	23	3	<a href="https://meet.google.com/vya-ppv-h-uwq">https://meet.google.com/vya-ppv-h-uwq</a>
25.05.2021	6 <sup>th</sup> Sem	20	4	<a href="https://meet.google.com/opx-rqen-joq">https://meet.google.com/opx-rqen-joq</a>
	4 <sup>th</sup> Sem	14	7	<a href="https://meet.google.com/tus-fnbm-xnm">https://meet.google.com/tus-fnbm-xnm</a>
	2 <sup>nd</sup> Sem	23	3	<a href="https://meet.google.com/gfr-nasw-ytk">https://meet.google.com/gfr-nasw-ytk</a>
26.05.2021	6 <sup>th</sup> Sem	20	4	<a href="https://meet.google.com/dau-ced-tse">https://meet.google.com/dau-ced-tse</a>
	4 <sup>th</sup> Sem	9	12	<a href="https://meet.google.com/opq-uxoq-pna">https://meet.google.com/opq-uxoq-pna</a>
	2 <sup>nd</sup> Sem	21	5	<a href="https://meet.google.com/jzz-pxrr-cof">https://meet.google.com/jzz-pxrr-cof</a>
27.05.2021	6 <sup>th</sup> Sem	20	4	<a href="http://meet.google.com/pnq-cusf-drk">http://meet.google.com/pnq-cusf-drk</a>
	4 <sup>th</sup> Sem	16	5	<a href="https://meet.google.com/irc-wnqv-vfq">https://meet.google.com/irc-wnqv-vfq</a>
	2 <sup>nd</sup> Sem	17	9	<a href="https://meet.google.com/aes-iati-vwm">https://meet.google.com/aes-iati-vwm</a>
28.05.2021	6 <sup>th</sup> Sem	20	4	<a href="https://meet.google.com/nkk-fwgi-ieee">https://meet.google.com/nkk-fwgi-ieee</a>
	4 <sup>th</sup> Sem	18	3	<a href="https://meet.google.com/zjd-urws-tqy">https://meet.google.com/zjd-urws-tqy</a>
	2 <sup>nd</sup> Sem	23	3	<a href="https://meet.google.com/cwo-ipbv-ofc">https://meet.google.com/cwo-ipbv-ofc</a>
29.05.2021	6 <sup>th</sup> Sem	18	6	<a href="https://meet.google.com/ubr-gjcs-bun">https://meet.google.com/ubr-gjcs-bun</a>
	4 <sup>th</sup> Sem	17	4	<a href="https://meet.google.com/wme-mrm-nxy">https://meet.google.com/wme-mrm-nxy</a>
	2 <sup>nd</sup> Sem	17	9	<a href="https://meet.google.com/jtt-zdts-rkm">https://meet.google.com/jtt-zdts-rkm</a>
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	4 <sup>th</sup> Sem	15	6	<a href="https://meet.google.com/qhx-zimf-uja">https://meet.google.com/qhx-zimf-uja</a>
	2 <sup>nd</sup> Sem	21	5	<a href="https://meet.google.com/min-savm-wgi">https://meet.google.com/min-savm-wgi</a>