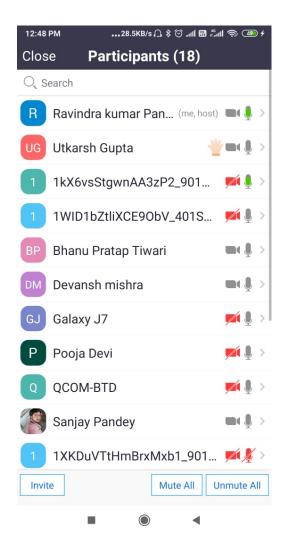
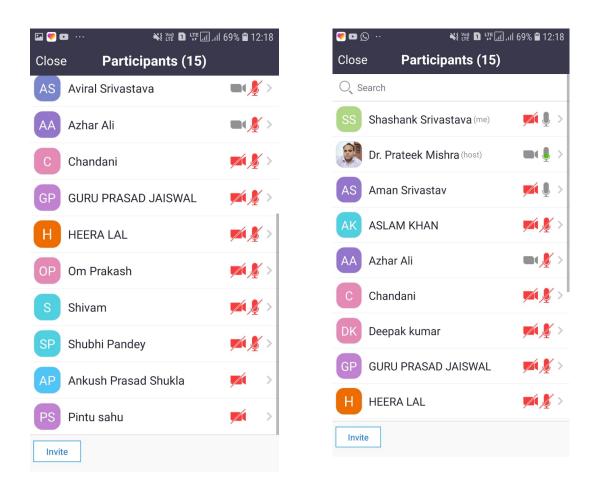
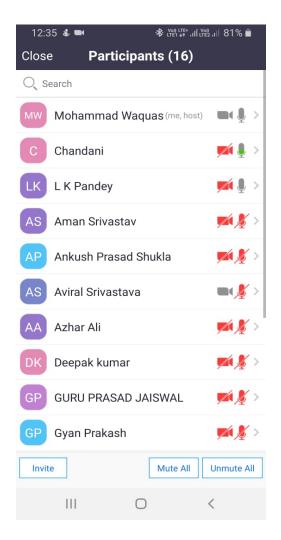
- 1. Department- Botany
- 2. Class- MSc 2 and 4th semester
- 3. Name of the Teacher- Dr R K Pandey
- 4. Date.19.04.2020. Time- 11:45- 01:30 P.M.
- 5. **Topic-** structure of chromosome, karyotype, ideogram, heterochromatin and euchromatin, repetitive DNA, Satellite DNA, banding technique of DNA. Attachments area
- 6. No of Participating Student-18



- 1. Department- Mathematics
- 2. Class- M.Sc.II semester(Mathematics), paper III
- 3. Name of the Teacher- Dr. Prateek Mishra
- 4. Date.19.04.2020. Time- 11:45- 12:25 P.M.
- 5. Topic-, Partial Differential Equations, has been conducted
- 6. No of Participating Student-15



- 1. Department- Mathematics
- 2. Class- M.Sc. IInd Semester 1st Paper
- 3. Name of the Teacher- Mohd. Waquas Khadim
- 4. Date.19.04.2020. Time- 12:20- 01:00 P.M.
- 5. Topic-, Homomorphism in Module Theory
- 6. No of Participating Student-15



The faculties of physics Deptt Dr Alok Shukla, Dr. Amrendra Singh, DDTiwari,Nivedita, Priya & Usman Gani provided study materials online for MSc 2nd and 4th semester students today itself.

611 E = 31 K = mloge [(Y/m) (4 mm) 3/2 e 5/2 (m) 3/2 + = n loge [ V T 3/2 C] to make it dimensionales we devide  $\Delta Tby$   $h^{2m}$ :  $T = loge \Delta T$   $\Delta T^{\dagger} = \left[ \sqrt{m} \frac{\Lambda^{2m}}{\Lambda^{2m}} \right]$   $\Delta T^{\dagger} = \left[ \sqrt{m} \frac{\Lambda^{2m}}{\Lambda^{2m}} \right]$  $\left(\frac{2\pi \operatorname{Me} k}{2\pi}\right)^{3/2} = \operatorname{constant}$ = n loge ((47/3m) 3/2 (Y/n) (E/n) 3/2 +hlo =  $m \log_{e} \left[ \left( \frac{4\pi}{3k^2} m \right)^{3/2} \left( \frac{V}{m} \right) \left( \frac{E}{n} \right)^{3/2} \right] \frac{4\pi}{2} - \left( \frac{1}{2} + \frac{1}{2} \right) \left( \frac{E}{n} \right)^{3/2} \frac{1}{2} \frac$ = m[logev + loge I 3/2 + loge C] There fore  $= \log \left[ \frac{\sqrt{n} \pi^{3n/2}}{3n/2} \frac{(2mE)^{3n/2}}{\pi^{3n}} \right]$ the above equation V/m to volume fortfick & Efmi is every for posticle & it is additive my for posticle & mu thermodynamical actrop log V + 3 log T + log c Since 131/2 = (31/2e) 31/2  $= \log_{e} \left[ \frac{\gamma^{n} \pi^{3n/2} (2m \epsilon)^{31}}{(3n/2 \epsilon)^{3n/2} h^{3n}} \right]$ ynimcal antropy Mherefore 9 given by:is given by :- $= \log_{e} \left[ \frac{\sqrt{\pi^{3/2}} (2mE)^{3/2}}{(3^{n/2}e)^{3/2}} \right]^{2}$ S = Ko log v +3 log T + loge  $S = m\kappa \log \left[ \left( \frac{4\pi}{3k^2} m \right)^{3/2} \left( \frac{1}{m} \right)^{3/2} \right] + \frac{3n\kappa}{2}$ Loge [ V 7 3/2 (2m 3/2 nKT) 3/2 (3n/2e) 3/2 h3 ] ider 2- sub-system to 2 Sb, temp" Ta 2 T ofal num. of particle ~ Z Tb Above agen is known Equation Gibb's Paradox: = n log e [ VT 3/2 (3m K Fn) 3/2] Mloge V (2et KTA) 3/2 7 (1)3/2 h3 Tb Mb Vb The entropy I in consistical equilibrium If is given by :n loge V (2ex KT)3/2 7 2  $log_{e} = \frac{1}{\sqrt{2\pi em k}} \frac{3/2}{3/2} + \frac{3/2}{3/2}$ loge & T  $V_{3}(R) = \frac{3}{X^{3}} \frac{3}{2} R^{3}$ UNIT 2nd Y3 (B) = 7 3/2 Entropy & Ideal gous for first system :-Sackin Tetrode Equation :-Sa = Kma log Va + 3 log Ta + log C - 2 letus consider micro canonical ensemble of perfect gay. let n be the point particle of gaus min a Valume q which total energy AE. for second system: -Sb = Kmb [ loge Vb + 3 log. Tb + loge C.  $\int dp_1 \cdot dp_2 \cdot \cdots \cdot dp_{3n} = \frac{\pi^{\frac{2n}{2}}}{1^{\frac{3n}{2}}}$ - (p-dp The corresponding volume in the phase space explain by Adding eqn (2) & eqn (3) we get :-Since b = JamE Satsb = KS(ma+mb) [log Va + 3 log Ta + loge( ST'= Jaqdq2--- dq3N dpd2-- dg Shumper  $dp_1 \cdot dp_2 \cdots dp_{2n} = \pi^{3n/2} \left[ \frac{\partial m e^{-\beta n/2}}{(2m)} \right] \right] \right] \right]$ Mow Integral log Vb + 3 log To + logel It ma= mb= m, Va=Vb=V, Z Ta=Tb=T Speen above equir becomes: (dada2 -- da3 H =) dx, dy, dz, [dx, dy, dz; Satsb = 2mk I slog V + 3 log TA + 2 log since anys. et >> to transfore we can dear of exponential deam in comparison that John dyn dzn Vn-Consider ture two only systems as one system having temps I sum of particle 2h & volume 2V for evaluating, the integral j day day  $\sum_{n=1}^{\infty} \frac{\pi^{3n/2}}{1^{3n/2}} (2mE)^{3n/2} \int_{0}^{\infty} -(3)$ whe draw 3N- dimension athighter sphere of nacions p - dp and p. Using equa (3) E (3) in equa (1) we The volume blue these two sphere is give value of a above integral AF = VM 7316 (2ME) 31/2 (-(4)

System

# M.L.K.P.G. College, Balrampur Online classes Faculty of B.Ed.

- 1. Department- B.Ed.
- 2. Class- B.Ed. 1st year
- 3. Name of the Teacher- Dr. Shri Prakash Mishra
- 4. Date.19.04.2020. Time- 11:45- 12:45 P.M.
- 5. **TOPIC-** Measurement of Personality Area covered under this topic-
  - 1. Observation Method of Personality Measurement
  - 2. Interview Method of Personality Measurement
  - 3. Questionnaire Method of Personality Measurement
  - 4. Case History Method of Personality Measurement
  - 5. Projective Method of Personality Measurement
- 6- No of Participating Student-24

