

# SIR C R REDDY COLLEGE FOR WOMEN

(Affiliated to AdikaviNannaya University, Rajamahendravaram)

Vatluru (Post), Pedapadu Mandal, West Godavari Dist., (A.P)



## PG ENTRANCE COACHING

For

**M.Sc., (PHYSICS)**

**Date: 05-Apr-2019 To 04 -May-2019**

**Time: 9:30 am to 12:30 Pm**

**Organized by**

**CAREER GUIDANCE & PLACEMENT CELL**

**2018–2019**

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## About Programme

The Career Guidance and Placement Cell at Sir CR Reddy College for Women organized PG entrance coaching classes for NANNAYACET 2019 in ,physics. These classes were conducted by senior faculty members who specialize in the respective subjects at the college.

### **Program: PG Entrance Coaching for Subject**

#### **Subjects Covered:**

- M.Sc. (physics)

#### **Target Audience:**

- III B.Sc. students aspiring for postgraduate studies (M.Sc.)

#### **Duration:**

- April 5th, 2019, to May 4th, 2019 (30 days)

#### **Time:**

- 9:30 AM to 12:30 PM (Morning sessions)

#### **Resource Persons:**

Mrs.k.Sirisha (HOD ),and M.Jayalakshmi Devi

#### **Organized By:**

- Career Guidance and Placement Cell at Sir CR Reddy College for Women

#### **Program Overview:**

- Specifically designed coaching program focusing on NANNAYACET 2019 for M.Sc. aspirants.
- Conducted by seasoned faculty members from Sir CR Reddy College, each specializing in Physics.
- Comprehensive curriculum comprising subject-specific lectures, problem-solving sessions, practice tests, and exam strategy workshops.
- Tailored content to acquaint students with the NANNAYACET exam pattern, syllabus, and effective preparation methodologies.

#### **Benefits for III B.Sc. Students:**

- Early guidance and preparation assistance for M.Sc. entrance exams.
- Exposure to exam patterns, aiding in better preparedness.
- Access to experienced faculty for subject-specific guidance and doubt resolution.
- Enhanced readiness for M.Sc. studies by initiating preparation in advance.

This coaching program aims to support B.Sc. students in their aspirations for pursuing postgraduate studies by providing structured coaching specifically aligned with the requirements of the NANNAYACET 2019 examination.

## **Learning Objectives and Learning Outcomes**

### **Learning Objectives:**

1. **Subject Mastery:** To facilitate a comprehensive understanding of the core concepts and subject-specific knowledge required for M.Sc. entrance exams.
2. **Exam Familiarity:** To familiarize students with the exam pattern, question types, and syllabi specific to NANNAYACET 2019.
3. **Problem-Solving Skills:** To enhance problem-solving abilities and critical thinking necessary to tackle complex questions in the entrance exams.
4. **Time Management:** To equip students with effective time management strategies for the exam and optimize their performance within the stipulated time frame.
5. **Exam Strategy:** To provide guidance on effective exam strategies, including question selection, prioritization, and efficient answering techniques.

### **Expected Outcomes:**

1. **Strong Foundation:** Students are expected to build a strong foundational understanding of their respective subjects, providing a basis for advanced studies.
2. **Improved Performance:** Enhanced problem-solving skills and a better grasp of exam patterns can result in improved performance in mock tests and the actual entrance exam.
3. **Confidence:** Through regular practice and guidance, students are likely to gain confidence in handling diverse questions and scenarios during the examination.
4. **Effective Preparation:** Students should be better prepared to face the challenges of the entrance exams by utilizing learned strategies and subject-specific knowledge.
5. **Readiness for Postgraduate Studies:** The coaching program aims to prepare students adequately for the rigors of postgraduate studies in their chosen fields.

# Permission Letter

## Permission Letter

18-03-2019  
Eluru

To  
The Principal  
Sir C.R.Reddy College for Women  
Eluru

**Subject: Request to grant permission to conduct P.G Entrance Test Coaching Classes to final year students.**

This is to bring to your kind notice that, Career Guidance and Placement Cell is planning to conduct P.G Entrance test Coaching Classes for interested III B.Sc/B.Com students specializing life Sciences, Mathematics, Physics, Chemistry, Commerce .

The coaching classes aim is to provide additional support and guidance to our ambitious students who aspire to excel in their respective fields and we believe that providing coaching classes with in our college will not only benefit our students but also contribute to the overall academic excellence of our institution. These classes will be conducted for about 30 days i.e., from 5<sup>th</sup> April 2019 to 4<sup>th</sup> May 2019. The duration of these classes will be from 9:30 am to 12:30 pm. I kindly request your approval for this initiative, as it aligns with our commitment to fostering academic excellence and preparing our students for successful futures.

Thanking you Madam,

Permitted  
*[Signature]*  
Principal  
Sir C.R.Reddy College for Women  
ELURU

Yours Faithfully  
*[Signature]*  
(Coordinator)

Career Guidance and Placement Cell

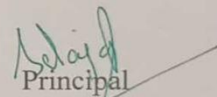
## Notice to Students

### NOTICE

19-03-2019

This is to inform you all that Career Guidance and placement Cell arranged P.G Entrance Test Coaching Classes for interested III B.Sc/B.Com students specializing life Sciences, Mathematics, Physics, Chemistry, Commerce. These Classes will be held within the college at Seminar Hall from 5<sup>th</sup> April 2019 to 4<sup>th</sup> May 2019 running from 9:30 AM to 12:30 PM. This initiative aims to enhance your preparation for P G Entrance Test offering personalized guidance to help you excel in the examination. These sessions will provide valuable insights and guidance.

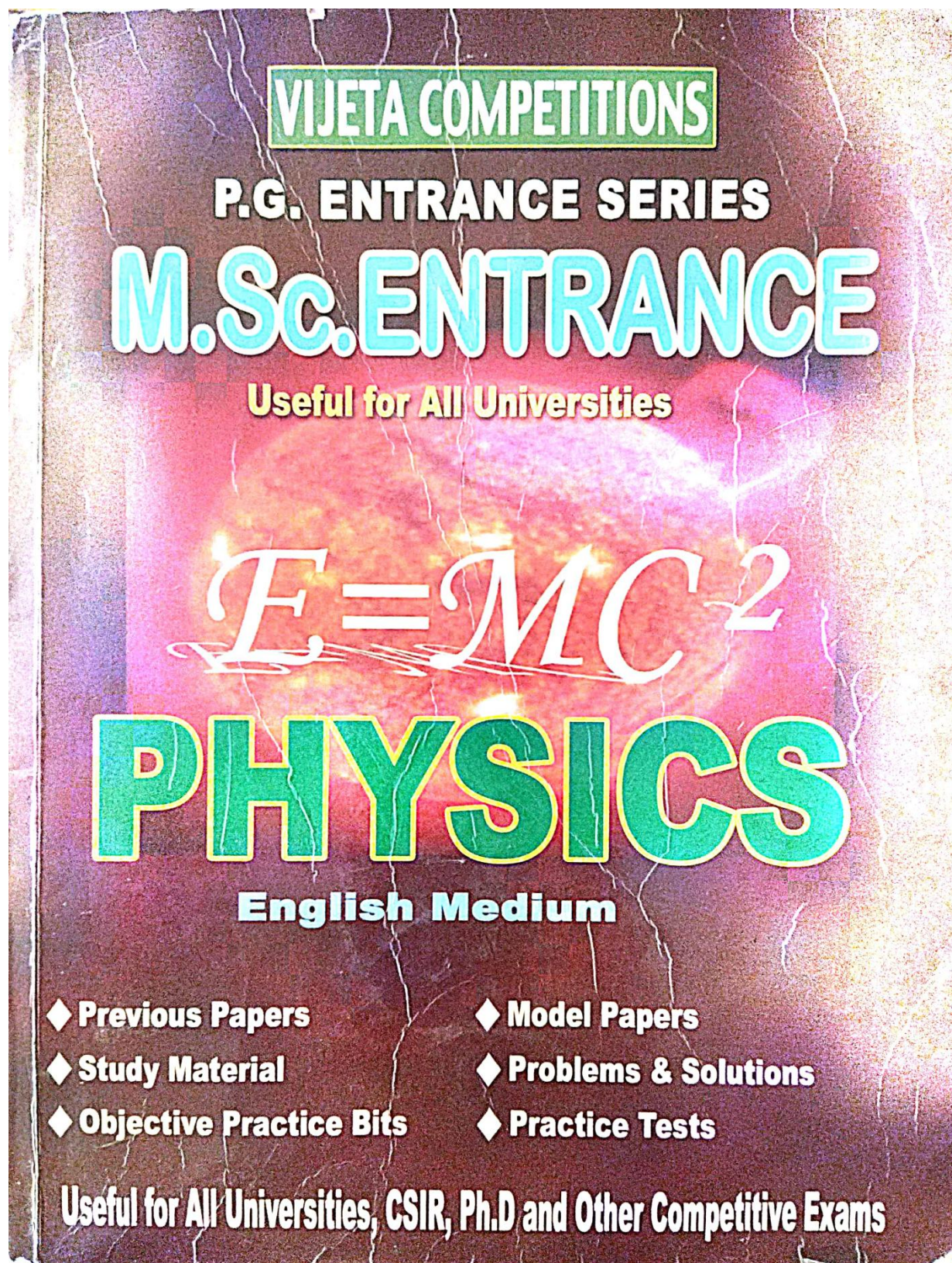
We encourage all interested candidates to attend and take advantage of this valuable opportunity.

  
Principal

Principal  
Sir G.R.Reddy College for Women  
ELURU

## **Course Structure**

- 1. Thermodynamics**
2. Low temperature physics
3. Quantum theory of radiation
4. Mechanics & oscillations
5. Vectors
- 6. Optics**
- 7. Electricity and Magnetism**
- 8. Modern physics and Electronics**
9. Fluid mechanics
10. Special theory of relativity



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# 1.5. FLUID DYNAMICS

## STUDY MATERIAL

★ The fluids can be divided into two parts depends on pressure.

1. **Liquids:** which are incompressible (volume can't change)
2. **Gases:** which are compressible (volume can change)

★ **Characteristics of fluids:**

1. Fluids can flow may be steady or non-steady.
2. Fluids flow may be rotational or inrotational.
3. Fluids flow may be compressible or incompressible.
4. Fluids flow may be viscous and nonviscous.

★ **Stream line flow:** The fluid flow is such that velocity at any point of every particle is constant in time, the flow is known as steady or stream line flow.

★ **Turbulent flow:** The flow of fluid in which velocity of all particles crossing a given point is not same and becomes disorderly or irregular, is called turbulent flow.

★ **Viscosity:** The property of a fluid by virtue of which an opposing force comes into play whenever there is a relative flow between the different layers of the fluid or liquid is called viscosity.

★ **Coefficient of Viscosity:** Coefficient of viscosity of a liquid is defined as the viscous drag acting per unit area of the layer having unit velocity gradient perpendicular to the direction of the flow.

It is denoted by  $\eta = F/A \frac{dV}{dn}$

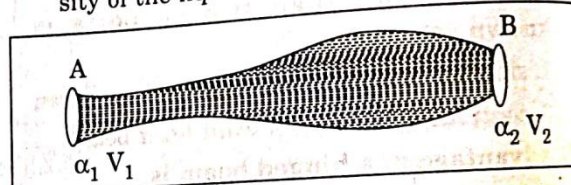
**Applications:** Viscosity of various liquids and gases have the following applications.

1. Liquids at high viscosity are used in shock absorbers and buffers at railway stations.
2. Used to damp the motion at some instruments.

3. Used in determining the molecular weight and shape of the organic molecules.
4. Lubricants (different) are made depending upon season.

★ **Equation of continuity:** The velocity of the fluid is inversely proportional to the area of cross section i.e., larger is the cross sectional area smaller would be the velocity of flow and vice-versa.

Let  $\alpha_1, V_1$ , and  $\rho_1$  be the area of cross section of the tube, velocity of flow of the liquid particles and density of the liquid at point A, similarly  $\alpha_2, V_2$  and  $\rho_2$  be the of cross section of the tube, velocity of flow of the liquid particles and density of the liquid at the point B.



★ The flow is steady or incompressible i.e.,  $\rho_1 = \rho_2 = \rho$ . Therefore  $\alpha_1 V_1 \rho_1 = \alpha_2 V_2 \rho_2$   
 $\alpha V = \text{constant}$

Differential form of equation of continuity:

$$\nabla \cdot \vec{V} = 0$$

$$\left[ \vec{\nabla} = i \frac{d}{dx} + j \frac{d}{dy} + k \frac{d}{dz} \text{ and } \vec{V} = iV_x + jV_y + kV_z \right]$$

The statement of equation of continuity for an incompressible fluid flow.

### BERNOULLI'S THEOREM

★ When an incompressible and non-viscous fluid-flow in stream lined motion from one place to another, then at every point of its path.

The total energy per unit volume is constant  
 Pressure energy + kinetic energy + potential energy = constant.

$$\rho + \frac{1}{2} \rho V^2 + \rho gh = \text{constant.}$$

under low pressure, the tubes and fins get cooled

★ Applications of low temperature:

1. Production of high Vacuum.
2. Separation of constituents of air.

3. Vapourisation calorimeters.
4.  $O_2$  and  $N_2$  are being produced from liquid air.
5. It is also used in manufacturing explosives.
6. The liquid  $O_2$  is stored up in cylinders for artificial respiration.

## PROBLEMS & SOLUTIONS

1. A refrigerator works under a irreversible cycle between the temperatures 300K and 400K. Calculate i) the thermal efficiency ii) the coefficient of performance.

Sol: i. Thermal efficiency  $\eta = 1 - \frac{T_2}{T_1} = 1 - \frac{300}{400}$   
 $= 0.25$  or 25%

- ii. The coefficient of performance,

$$\beta = \frac{Q_2}{W} = \frac{T_2}{T_1 - T_2} = \frac{300}{400 - 300} = 3$$

2. For one mole of hydrogen, the Vander Waal's constants  $a=0.245 \frac{L^2 \times atoms}{mole^2}$ ;  $b=2.67 \times 10^{-4} L \text{ mole}^{-1}$ , calculate its temperature of inversion.  $R = 2 \text{ cal/mole K}$

Sol: The temperature of inversion  $T_i$  is

$$T_i = \frac{2a}{Rb}$$

$$T_i = \frac{2 \times 0.245 \times 10^{12}}{2 \times 4.2 \times 10^7 \times 26.7} = 220 \text{ K}$$

## OBJECTIVE BITS

1. In the porous plug experiment, the temperature of the gas increases after throttling. The correct range for the initial temperature of the gas for this to happen is
  1. Critical temperature to Boyle's temperature
  2. Boiling temperature to critical temperature
  3. Below inversion temperature
  4. (2) and (3)

2. The equation  $\left(\frac{dP}{dT}\right)_g = \frac{S}{V}$ , where P is pressure, S is specific entropy of liquid helium and V is specific volume, is known as
  1. Joule - Thomson effect equation
  2. Joule - Kelvin effect equation
  3. Fountain effect equation
  4. (1) & (2)

3. Cooling is possible when
  1.  $T_i = \frac{2a}{2b}$
  2.  $T_i > \frac{2a}{Rb}$
  3.  $T_i < \frac{2a}{Rb}$
  4.  $T_i \leq \frac{2a}{2b}$

4. Joule-Thomson cooling is
  1. Temperature independent
  2. Temperature dependent
  3. Inversely proportional to molecular weight
  4. Dependent on the total mass of gas

5. The Clapeyron's equation  $\frac{L}{V_2 - V_1} = T \left(\frac{dP}{dT}\right)_g$ , can be derived from
  1.  $\left(\frac{dS}{dV}\right)_T = \left(\frac{dP}{dT}\right)_V$
  2.  $\left(\frac{dP}{dV}\right)_T = \left(\frac{dP}{dT}\right)_V \left(\frac{dT}{dV}\right)_P$
  3.  $\left(\frac{dC_p}{dP}\right)_T = -T \left(\frac{dv}{dT^2}\right)$
  4. None of the above

6. The following processes are used for cooling
  1. Evaporation
  2. Adiabatic demagnetization
  3. Adiabatic expansion compressed gas
  4. (2) & (3) only

7. The dimensions of the constant b in Vander waal's gas equation are that of
  1. Volume
  2. Pressure
  3. Volume  $\times$  Pressure
  4. Volume / Pressure

8. According to Vander Waal's gas equation critical co-efficient  $\frac{R T_c}{P_c V_c}$  is equal to
  1. 1
  2. 8/3
  3. 8
  4. 3:1

★ Sum of the static and dynamic pressure is constant. i.e.,  $P + \frac{1}{2} \rho V^2 = \text{constant}$ ;  $\frac{1}{2} \rho V^2$  is constant.

★ Applications:

1. Lift of an airfoil
2. The sprayer
3. Spinning of a ball
4. Bunsen burner
5. Pitot tube
6. carburettor
7. Vacuum brake
8. Venturimeter
9. Torricelli's theorem

### TORRICELLI'S THEOREM

★ The velocity of efflux of a liquid through an orifice is equal to that which a body would acquire in falling freely from the free surface of liquid to the orifice.

According to Bernoulli's theorem.

The sum of the pressure and the total energy per unit volume of the liquid must be the same at the free surface and at every point of the orifice.

$$\Rightarrow P + 0 + \rho g H = P + \frac{1}{2} \rho V^2 + \rho g (H - h)$$

$$\Rightarrow \frac{1}{2} \rho V^2 = \rho g h$$

$$\Rightarrow V = \sqrt{2gh}$$

★ The rate of flow of water through circular orifice is  $0.62 a \sqrt{2gh}$ . Where 'a' is area of cross section.

★ **Pitot tube:** To determine the velocity of flow of the liquid in tube, rivers and streams etc., it is measured by using  $V = \sqrt{2gh}$ , where 'h' is the height difference between arms of pitot tube and 'g' is acceleration due to gravity.

**Venturimeter:** Venturimeter is a gauge put on a flow pipe to measure the rate of flow of a liquid through a pipe. According to Bernoulli's theorem, velocity of flow of liquid at point A is

$$V_1 = \left[ \frac{2A_2^2(P_1 - P_2)}{\rho(A_1^2 - A_2^2)} \right]^{\frac{1}{2}} \text{ and}$$

Velocity of flow of liquid at point B is

$$V_2 = \left[ \frac{2A_2^2(P_1 - P_2)}{\rho(A_1^2 - A_2^2)} \right]^{\frac{1}{2}}$$

## PROBLEMS & SOLUTIONS

1. Water enters a horizontal pipe of non-uniform cross-section with a velocity of 0.4 m/s and leaves the other end with a velocity of 0.6 m/s, pressure of water at the first end is 1500 N/m<sup>2</sup>. Then calculate the pressure of water at other end.

Sol: The horizontal flow of liquid.

$$P_1 + \frac{1}{2} \rho V_1^2 = P_2 + \frac{1}{2} \rho V_2^2$$

$$P_2 = P_1 + \frac{1}{2} \rho (V_1^2 - V_2^2)$$

$$\text{Where, } P_1 = 1500, V_1 = 0.4, V_2 = 0.6$$

$$P_2 = 1500 + \frac{1}{2} \times 10^3 \times (0.16 - 0.36)$$

$$P_2 = 1500 - 100 = 1400$$

$$P_2 = 1400 \text{ N/m}^2$$

2. A bent tube is lowered into a water stream. The velocity of the stream relative to the tube is equal to  $V = 2.5$  m/s. The closed upper end of the tube located

at the height  $h_0 = 12$  cm has a small orifice. To what height  $h$  will be the water jet spurt.

Sol: The K.E at the lower end is converted into pressure and again pressure energy converted into K.E.

$$\frac{1}{2} \rho V^2 = h_0 \rho g + \rho (V^1)^2$$

$$\therefore V^1 = \sqrt{\frac{\rho V^2 - 2h_0 \rho g}{\rho}}$$

$$\text{or } V^1 = \left[ V^2 - 2gh_0 \right]^{\frac{1}{2}} \dots\dots\dots (1)$$

$$h = \frac{(V^1)^2}{2g} \dots\dots\dots (2)$$

From (1) and (2) then we get

$$h = \frac{(V^1)^2}{2g} - h_0 \dots\dots\dots (3)$$

$$h = \frac{(2.5)^2}{2 \times 9.8} - 0.12$$

$$h = 0.20 \text{ m}$$

9. Joule-Thomson co-efficient is given by

$$1. \mu = \frac{1}{C_p} \left[ T \left( \frac{dV}{dP} \right)_T - V \right]$$

$$2. \mu = \frac{1}{C_p} \left[ T \left( \frac{dV}{dT} \right)_P + V \right]$$

$$3. \mu = \frac{1}{C_p} \left[ T \left( \frac{dV}{dT} \right)_P - V \right]$$

$$4. \mu = J C_p \left[ T \left( \frac{dV}{dT} \right)_P - V \right]$$

10. The Vanderwaal's constants  $a$  and  $b$  for 1 gram molecule of hydrogen are  $a = 0.245 \text{ atm lt}^2 \text{ mole}^{-2}$ . Then calculate the critical, constants of the gas.

1.  $T_c = 239^\circ\text{C}$

$V_c = 8.01 \times 10^{-2} \text{ kg}$

2.  $T_c = -239.82^\circ\text{C}$

$V_c = 8.01 \times 10^{-2} \text{ kg}$

3.  $P_c = 13.12 \text{ Atm}$

4. (2) & (3) only

11. Calculate the critical temperature of helium given the following values for critical constants  $a = 615 \times 10^{-5}$ ,  $b = 995 \times 10^{-4}$ ; where the units of pressure is the atmosphere and the unit of volume, the gram molecular volume of gas at NTP.

1.  $-268^\circ\text{C}$

2. 5K

3.  $5^\circ\text{C}$

4. (1) & (2)

12. The temperature of inversion of hydrogen and helium are

1.  $-80^\circ\text{C}, -240^\circ\text{C}$

2.  $-80^\circ\text{K}, -240^\circ\text{K}$

3.  $80^\circ\text{C}, 240^\circ\text{K}$

4. (1) & (2) only

13. In a porous-plug experiment, the change in temperature of the gas depends upon

1. Its thermal conductivity

2. The difference in pressure on either side of the plug

3. Its specific heat

4. None of the above

### ANSWERS

1.4 2.3 3.3 4.2 5.1 6.4 7.1 8.2 9.3 10.4 11.4 12.1 13.2

# 1.1. VECTORS

## STUDY MATERIAL

★ **Scalar quantity:** A physical quantity which has only magnitude is called scalar.

Ex: Mass, temperature, speed, etc.

★ **Vector quantity:** A physical quantity having both magnitude and direction.

Ex: Velocity, momentum, acceleration, force, etc.

★ **Sum of scalars:** The sum of two scalars is a scalar quantity.

★ **Null vector:** The vector whose origin and terminus, is same is called null vector or zero vector. Its magnitude is zero and direction is indeterminate.

★ **Unit vector:** The vector having unit magnitude is called unit vector.

If  $\vec{A}$  is the vector, then its unit vector  $\hat{a} = \frac{\vec{A}}{|\vec{A}|}$

Note:1. The unit vector which is perpendicular to the plane containing vectors  $\vec{A}$  &  $\vec{B}$  is

$$\hat{c} = \frac{\vec{A} \times \vec{B}}{|\vec{A} \times \vec{B}|}$$

2. 'O' is origin, P(x, y, z) then the unit vector parallel to  $\vec{OP} = x\hat{i} + y\hat{j} + z\hat{k} / \sqrt{x^2 + y^2 + z^2}$

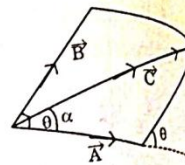
★ Displacement, velocity, acceleration, momentum, force, impulse, intensity of electric field, moment of magnetisation, magnetic induction .... etc., these vectors are called real or polar vectors.

★ Torque, angular momentum, angular velocity .... etc., these vectors are called axial vectors.

★ **Triangular law:** If two vectors are represented in magnitude and direction by the two sides of a triangle taken in order, the resultant vector is represented in magnitude and direction by the third side of triangle taken in reverse order.

★ **Parallelogram law:** If two vectors are represented in magnitude and direction by the two

adjacent sides of a parallelogram drawn from a point, their resultant is represented in magnitude and direction by the diagonal passing through the same point.



Parallelogram

★ If the angle between two vectors  $\vec{A}$  &  $\vec{B}$  is  $\theta$ , then resultant vector,

$$C^2 = A^2 + B^2 + 2AB \cos \theta$$

$$\text{or } C = \sqrt{A^2 + B^2 + 2AB \cos \theta}$$

If the resultant  $\vec{C}$  makes an angle  $\alpha$  with the direction  $\vec{A}$ , then

$$\alpha = \tan^{-1} \left[ \frac{B \sin \theta}{A + B \cos \theta} \right]$$

Cases:

i. If  $\vec{A}$  &  $\vec{B}$  are in same direction,  $\theta = 0^\circ$

$$|\vec{A} + \vec{B}| = |\vec{A}| + |\vec{B}|$$

ii. If  $\vec{A}$  &  $\vec{B}$  are in opposite direction,  $\theta = 180^\circ$

$$|\vec{A} + \vec{B}| = |\vec{A}| - |\vec{B}|$$

iii. If  $\vec{A}$ ,  $\vec{B}$  are in perpendicular directions and

$$|\vec{A}| = |\vec{B}| \text{ then } |\vec{A} + \vec{B}| = \sqrt{2} A$$

iv.  $|\vec{A}| = |\vec{B}|$  then  $|\vec{A} + \vec{B}| = 2A \cos \theta/2$

★ **Polygon law:** If no. of vectors are represented in magnitude and direction by the sides of a polygon taken in order, the resultant is represented in magnitude and direction by the closing side of the polygon taken in reverse order.

★ **Scalar product of two vectors (DOT product)**  
The scalar or DOT product of two vectors  $\vec{A}$  and  $\vec{B}$  is defined as the product of the magnitude of the vectors and the cosine of the angle between them.

1. If A, B are two vectors then their dot product  $\vec{A} \cdot \vec{B} = |\vec{A}| |\vec{B}| \cos \theta$

2. Commutative law  $\vec{A} \cdot \vec{B} = \vec{B} \cdot \vec{A}$

ADITYA M.Sc. ENT. (PHYSICS)

2

9) A condenser of capacity  $10\mu\text{F}$  is charged to a potential of  $1000\text{V}$ , then the energy stored in the condenser

- 1)  $5\text{J}$  2)  $10\text{J}$  3)  $15\text{J}$  4)  $20\text{J}$

10) An infinitely long conductor carries a current of  $100\text{mA}$ . What is the magnetic field a point  $0.1\text{m}$  away from it.

- 1)  $0.0795\text{Amp/m}$  2)  $0.1043\text{Amp/m}$   
3)  $0.1591\text{Amp/m}$  4)  $2 \times 10^{-7}$

11) A coil wire of certain radius has 600 turns and self-inductance  $100\text{mH}$ . What will be the self-inductance of a similar coil with 500 turns.

- 1)  $69.4\text{mH}$  2)  $75\text{mH}$   
3)  $83.3\text{mH}$  4)  $100\text{mH}$

12) The amount of field energy passing in unit time through unit area of the surface perpendicular to the direction of propagation of energy is called

- 1) Hall effect  
2) Electromagnetic energy  
3) Steady current 4) Poynting vector

13) In the experiment of determination of the charge on the electron in Millikan's method, oil used because

- 1) To eliminate error due to evaporation  
2) Small drops can be formed  
3) The surface tension is more for the oil  
4) To eliminate error due to usage of Stokes formula for bigger spheres also

14. The dielectric constant of a medium is 1, Electric field in the dielectric is  $10^6\text{V/m}$  then its polarization

- 1)  $27 \times 10^{-6}\text{cm}^{-2}$  2)  $36 \times 10^{-6}\text{cm}^{-2}$   
3)  $51 \times 10^{-6}\text{cm}^{-2}$  4) 0

15. A spherical drop of water carrying a charge of  $3 \times 10^{-6}\text{C}$  has a potential of  $1000\text{V}$  at its surface. What is the radius of the drop

- 1)  $108\text{m}$  2)  $54\text{m}$   
3)  $27\text{m}$  4)  $12\text{m}$

16. By using the laws of Boolean Algebra

$$AB - ABC + \bar{A}B + A\bar{B}C = 0$$

- 1)  $B + AC$  2)  $A(B + C)$   
3)  $A + BC$  4)  $AB + BC + CA$

17. The ripple factor of a bridge rectifier is

- 1) 1.21 2) 1.11 3) 0.812 4) 0.48

18. The minority and majority carriers in p-type semiconductor are

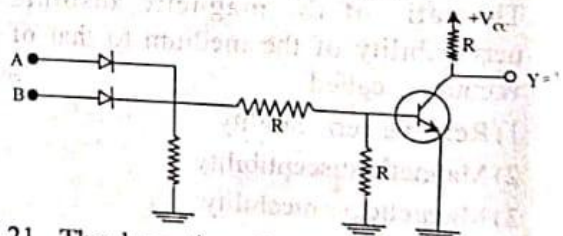
- 1) Holes and Electrons  
2) Electrons and Holes  
3) Holes only 4) Electrons only

19. The process of getting back audio signal from modulated wave is-

- 1) Detection 2) Rectification  
3) Amplification 4) Oscillation

20. In digital electronics, the following circuit belongs to

- 1) Ex-OR gate 2) NAND gate  
3) NOR gate 4) OR gate



21. The absorption of  $\gamma$  rays by matter at higher energies is almost

- 1) Compton absorption  
2) Pair production  
3) Photoelectric absorption  
4) None of these

22. An alpha particle of mass  $6.65 \times 10^{-27}\text{kg}$  and positive charge twice that of an electron at right angles to a magnetic field with a velocity of  $3 \times 10^5\text{m/sec}$ . If the flux density of field is  $0.2\text{W/m}^2$ . The force acting on the alpha particle is-

- 1) Zero 2)  $6.65 \times 10^{-27}\text{N}$   
3)  $1.92 \times 10^{-14}\text{N}$  4)  $8.32 \times 10^{-28}\text{N}$

ADITYA M.Sc. ENT. (PHYSICS)

3

23. Xenon having - Isotopes

- 1) 1    2) 3    3) 5    4) 9

24. The packing fraction is - for elements with mass number between 20 and 200

- 1) Positive    2) Negative  
3) Zero    4) None of these

25. In a crystal, a lattice plane cuts intercepts of  $2a$ ,  $3b$  and  $6c$  along the three axes where  $a$ ,  $b$ ,  $c$ , are primitive vectors of the unit cell. The miller indices of the given plane is

- 1) (3 2 1)    2) (2 3 6)  
3) (2  $\bar{3}$  3)    4) (1 2 3)

26. Example of Anti Ferromagnetism

- 1) MnS    2) Zn    3)  $Fe_3O_4$     4) Bi

27. The time independent schrodinger's wave equation is

1)  $\nabla^2 \psi + \frac{2m}{\hbar^2} (E + v) \psi = 0$

2)  $\frac{-\hbar^2}{2m} (\nabla^2 + v) \psi = \hbar \frac{\partial \psi}{\partial t}$

3)  $\nabla^2 \psi + \frac{2m}{\hbar^2} (E - V) \psi = 0$

4)  $\frac{-\hbar^2}{2m} (\nabla^2 + V) \psi = 0$

28. Positron is a

- 1) Anti-electron    2) Anti-proton  
3) Anti-neutron  
4) Anti-charged K meson

29. In the hydrogen spectrum Lyman Series lies in the

- 1) Visible region    2) UV region  
3) Micro wave region  
4) Infrared region

30. For a triclinic Crystal system

- 1)  $a = b \neq c$      $\alpha = \beta = \gamma = 90^\circ$   
2)  $a = b = c$      $\alpha = \beta = \gamma \neq 90^\circ$

3)  $a = b \neq c$      $\alpha = \beta = 90^\circ$  and  $\gamma = 120^\circ$

4)  $a \neq b \neq c$      $\alpha \neq \beta \neq \gamma \neq 90^\circ$

31. The threshold wavelength of sodium is

5045 Å then its work function is-

- 1)  $6.619 \times 10^{-19}$  J    2)  $3.936 \times 10^{-21}$  J  
3)  $7.432 \times 10^{-19}$  J    4)  $12.495 \times 10^{-19}$  J

32. If the uncertainty in the position of an electron is  $2 \times 10^{-10}$  m, then the uncertainty in its momentum is

- 1)  $6.62 \times 10^{-30}$  kg - m/sec  
2)  $4.32 \times 10^{-30}$  kg - m/sec  
3)  $3.31 \times 10^{-24}$  kg - m/sec  
4) zero

33. The disintegration constant ( $\lambda$ ) of radioactive element is 0.00231 per day, then its half-life

- 1) 5.3 years    2) 432.9 days  
3) 300 days    4) 87 days

34. What is the compton shift for an X-ray photon if it is scattered at an angle of  $60^\circ$  by electron

- 1) 0.0121 Å    2) 0.0242 Å  
3) 0.0432 Å    4) 0.1041 Å

35. Einstein equation of photoelectric effect is

- 1)  $E = mc^2$     2)  $E = hv$   
3)  $E = (m - m_0)C^2$

4)  $hv = \frac{1}{2} mv^2 + \phi$

36. The radius of Holmium ( $Ho^{165}$ ) is 7.731

Fermi, then the radius of Helium ( $He^4$ ) is

- 1) 26.71 Fermi    2) 18.24 Fermi  
3) 15.71 Fermi    4) 2.23 Fermi

37. The dispersion of positive ions in Aston's mass spectrograph is due to the applied

- 1) Magnetic field    2) Electric field  
3) Both electric and magnetic fields  
4) None of these

# Students List

**SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU**

**PG ENTRANCE COACHING**

**2018-2019**

**SUB: PHYSICS**

**ATTENDANCE SHEET**

S.NO	ROLL.NO	NAME OF THE STUDENT	CLASS	SIGNATURE OF THE STUDENT
1	1089	K.ANUHYA	MPC	K. Anuhya
2	1018	A.SAI GEETHIKA	MPC	A. Sai Geethika
3	1002	A.GEETHA	MPC	A. Geetha
4	1023	B.LAKSHMI NIHARIKA	MPC	B. Lakshmi Niharika
5	1031	CH.NAVYA SAI SRI	MPC	Ch. Navya Sai Sri
6	1034	D.MARY PRIYANKA	MPC	D. Mary Priyanka
7	1048	M.JYOTHI	MPC	M. Jyothi
8	1007	G.ANUSHA	MPC	G. Anusha
9	1051	MJEEVANA JYOTHI	MPC	M. Jeevana Jyothi
10	1058	N.RAMYA	MPC	N. Ramya
11	1062	P.PADMAJA	MPC	P. Padmaja
12	1063	P.TULASI	MPC	P. Tulasa
13	1013	SK.SHAKILABI	MPC	SK. Shakilabi
14	1073	T.NAVYA SRI	MPC	T. Navya Sri
15	1081	V.PRIYANKA	MPC	V. Priyanka
16	1199	T.MOUNIKA	MPCS	T. Mounika
17	1112	A.L.V PADMAJA	MPCS	A.L.V Padmaja
18	1138	D.SAI ANUSHA	MPCS	D. Anusha
19	1141	G.R.RAJESWARI	MPCS	G.R. Rajeswari
20	1161	M.PRIYADARSHINI	MPCS	M. Priyadarshini
21	1163	M.DURGA BHAVANI	MPCS	M. Durga Bhavani
22	1172	P.BHAVANI	MPCS	P. Bhavani
23	1176	P.JHANSI	MPCS	P. Jhansi
24	1179	S.SHARUNYA	MPCS	S. Sharunya
25	1186	S.VENKATA DIVYA	MPCS	S. Venkata Divya
26	1188	T.MOUNIKA	MPCS	T. Mounika
27	1121	B.VENU SIRISHA	MPCS	B.V. Sirisha
28	1132	CH.HARIKA	MPCS	Ch. Harika
29	1022	B.DEVI SIVA DURGA	MPC	B. Devi Siva Durga

30	1129	B.DEVI LAKSHMI	MPCS	B. Devi Lakshmi
31	1034	D.MERI PRASANNA	MPC	D. Meri Prasanna
32	1058	N.RAMYA	MPC	N. Ramya
33	1056	P.VASAVI	MPC	P. Vasavi

M. J. S.

SIGNATURE

## Students Attendance Register

SIR C R REDDY COLLEGE FOR WOMEN , ELURU																													
CAREER GUIDANCE & PLACEMENT CELL																													
PG ENTRANCE COACHING 2018-2019																													
SUB: PHYSICS																													
S.NO	ROLL NO	CLASS	NAME OF THE STUDENT	2/15/18	2/16/18	2/17/18	2/18/18	2/19/18	2/20/18	2/21/18	2/22/18	2/23/18	2/24/18	2/25/18	2/26/18	2/27/18	2/28/18	2/29/18	3/1/18	3/2/18	3/3/18	3/4/18	3/5/18	3/6/18	3/7/18	3/8/18	3/9/18	3/10/18	3/11/18
1	1089	MPC	K.ANUHYA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
2	1018	MPC	A.SAI GEETHIKA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
3	1002	MPC	A.GEETHA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
4	1023	MPC	B.LAKSHMI NIHARIKA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
5	1031	MPC	CH.NAVYA SAI SRI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
6	1034	MPC	D.MARY PRIYANKA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
7	1048	MPC	M.JYOTHI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
8	1007	MPC	G.ANUSHA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
9	1051	MPC	M.JEEVANA JYOTHI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
10	1058	MPC	N.RAMYA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
11	1062	MPC	P.PADMAJA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
12	1063	MPC	P.TULASI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
13	1013	MPC	SK.SHAKILABI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
14	1073	MPC	T.NAVYA SRI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
15	1081	MPC	V.PRIYANKA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
16	1199	MPCS	T.MOUNIKA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
17	1112	MPCS	A.LV PADMAJA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
18	1138	MPCS	D.SAI ANUSHA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
19	1141	MPCS	G.R.RAJESWARI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
20	1161	MPCS	M.PRIYADARSHINI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	



## REPORT

### **PROGRAMME:PG Entrance COACHING FOR III B.Sc. aspirants inPhysicssubject**

In association with IQAC & In accordance with the resolution made during the meeting and documented in the minutes, it was unanimously agreed to arrange PG entrance coaching classes for interested students pursuing III B.Sc (physics) This significant decision forms an integral part of the report on the PG entrance coaching classes in **Physics** subject conducted from 05-Apr-2019 To 04 -May-2019 from 9:30 to 12:30 .These classes were conducted by two senior and expert faculty Mrs.k.sirisha (HOD ),and M.JayalakshmiDevi from the physics department.

Approximately 33 motivated students actively participated in the coaching sessions These meticulously organized classes aimed to prepare the students comprehensively for the upcoming PG entrance examinations scheduled in the month of May 2019. The coaching sessions were diligently conducted from 9:30 AM to 12:30 PM, adhering to a structured curriculum meticulously designed to equip students with the essential skills and knowledge required for success in the examination.

The outcomes of these coaching classes have been highly encouraging. 8 students were qualified in the exam.few students showcased exceptional performance, securing remarkable pg. ranks demonstrating both their commitment and the effectiveness of the coaching program.

The successful arrangement of these coaching classes aligns directly with the decision made during the meeting These sessions facilitated a conducive learning environment, significantly contributing to the preparedness and success of the students preparing for the PG entrance examination.

Their dedication has been instrumental in empowering our students for academic success.

**RANK CARDS**





SRI PADMAVATI  
MAHILA VISVA VIDYALAYAM  
(WOMEN'S UNIVERSITY)

ACCREDITED BY NAAC WITH "A" GRADE

TIRUPATI-517 502.PH : 0877-2284533

SCHOOL OF SCIENCES



BEZAVADA LAKSHMI NIHARIKA

ROLL NUMBER :2019PHY22005-Hostel

DEPARTMENT OF PHYSICS

2019-2021

Card Holder

9052341433

HB  
HEAD

AADHAAR NO 8659 6542 6765 Blood Group O+

4-14, Near ice Factory, Eluru, 534004, Madipalli,  
West godavari.Ph.No 9030336888

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**DIRECTORATE OF ADMISSIONS  
ADIKAVI NANNAYA UNIVERSITY, RAJAMAHENDRAVARAM  
NANNAYACET - 2019 - RANK CARD**



Hall Ticket No : 081020006

RegNo : 201014

Application No : 105402

Name : DEVI LAKSHMI BUSHI  
Gender : Female  
Date of Birth : 09/06/1999  
Father's Name : RAJU BUSHI  
Address :  
DoptNo : 12-2-1/3  
Street : BHAVISETHI VARI PETA  
Town : ELURU  
City : ELURU  
District : WEST GODAVARI DISTRICT  
State : ANDHRA PRADESH  
Pin : 534001

Category : BCB

Test : 102-Physical Sciences

Marks Obtained

36

**RANK**

**108**



DIRECTOR, DOA  
NANNAYACET-2019

**Note:**

- Admission into any course is subject to fulfilment of eligibility criteria for that course.
- Any correction in bio-data should be brought to the notice of the Convener at the time of counseling.

**Certificates to be submitted at the verification center**

- NANNAYA CET - 2019 Rank Card & Hall Ticket and Counseling fee of Rs. 500/- (Rs.250/- for SC and ST and PH).
- Degree/Provisional Pass Certificate.
- Consolidated Marks statement of the Qualifying Examination.
- Transfer and Conduct Certificate from the institution where the candidate last studied. Candidates who have completed /studied already or discontinued and seeking admission to second PG or professional course should submit TC relating to first PG course only. Duplicate TC relating to UG / PG degree should be accompanied by proper evidence of loss of original TC, Police complaint with not traceable and Affidavit. Candidates submitting false TC are liable for cancellation of seat at any stage and are liable for prosecution. (Admission will not be given if T.C of the institution where the candidate studied last is not submitted)
- Migration Certificate (for other Universities candidates).
- Date of Birth Certificate (SSC/Matriculation or equivalent Certificate)
- Study Certificates for the last seven years or Residence Certificate for preceding seven years of the qualifying examination.
- Intermediate original certificate.
- Integrated Community Certificate issued by the competent authority in case of SC/ST/BC/EBC/Minority candidates.
- Valid latest income certificate issued by M.R.O./Thasildar if fee concession is claimed / white ration card (the validity of income certificate is for one year from the date of issue).
- 4 recent passport size Photos.
- Candidates opting for admission under NCC/Sports/CAP/PH/NSS quota must produce relevant original certificates, in addition to the above. PH certificate must be issued by the concerned medical board in the Govt. hospital.
- Discharge certificate and service certificate of the parent in case of a child of armed personnel.
- Physical fitness certificate from an Asst. Civil Surgeon.
- One set of Photostat copies of all the above certificates.
- After verification of the certificates, at the helpline centre, the candidate will get all his/her Original certificates back except T.C., C.C and Migration certificate. The receipt of original certificates shall be given to the candidate.

**I Phase Counseling:**

S.No.	All other Categories I Phase counseling for All Ranks	Venue (any one of the centers)	Time	Date
1.	Web Counseling & Certificate verification for Physical Sciences (102) and Computer Sciences (106)	1.Ch.S.D.St.Theresa College for Women (A), Eluru	9.00 AM	05-06-2019
2.	Web Counseling & Certificate verification for Humanities & Social Sci. (201) Chemical Sciences (104) and Hindi (204)	2. Aditya Degree College, Rajahmundry		06-06-2019
3.	Web Counseling & Certificate verification for Mathematical Sciences (103) English (202) and M.P.Ed (205)	3. D.N.R College (A), Bhimavaram		07-06-2019
4.	Web Counseling & Certificate verification for Life Sciences (101) Telugu (203) and Geology (105)	4. AKNU M.S.N Campus, Kakinada 5. S.K.B.R PG College, Amalapuram		08-06-2019
5.	Web options open			05-06-2019 to 11-06-2019
6.	Allotment of seats			13-06-2019
7.	Payment of course fee for the allotted seats			13-06-2019 to 16-06-2019

**Special Category Counseling:**

S.No.	Special Category Counseling for All Ranks & All Tests	Venue	Time	Date
1	Manual Admissions for Sports, NCC & CAP	Adikavi Nannaya University Campus, Rajamahendravaram	09.00 AM	09-06-2019
2	Manual Admissions for NSS & PH			10-06-2019



**DIRECTORATE OF ADMISSIONS  
ADIKAVI NANNAYA UNIVERSITY, RAJAMAHENDRAVARAM  
NANNAYACET - 2019 :: RANK CARD**



Hall Ticket No : 081020007

RegNo : 201029

Application No : 105204

Name : DEVI SIVA DURGA BANDI  
Gender : Female  
Date of Birth : 15-04-1999  
Father's Name : BANDI GANGADHARAM  
Address :  
DoorNo : H NO 3-66  
Street : 6 TH WARD KOTHAGUDEM  
Town : SEETHAM PETA  
City : SEETHAM PETA DENDULURU  
MANDAL  
District : WEST GODAVARI  
State : ANDHRA PRADESH  
Pin : 534427

Category : BCH

Test : 102-Physical Sciences

Marks Obtained:

28

RANK

326



S. Devi Siva Durga

*[Signature]*

DIRECTOR, DOA  
NANNAYACET-2019

**Note :**

- Admission into any course is subject to fulfilment of eligibility criteria for that course.
- Any correction in biodata should be brought to the notice of the Convener at the time of counseling.

**Certificates to be submitted at the verification center**

- NANNAYA CET - 2019 Rank Card & Hall Ticket and Counseling fee of Rs. 500/- (Rs.250/- for SC and ST and PH).
- Degree/Provisional Pass Certificate.
- Consolidated Marks statement of the Qualifying Examination.
- Transfer and Conduct Certificate from the institution where the candidate last studied. Candidates who have completed /studied already or discontinued and seeking admission to second PG or professional course should submit TC relating to first PG course only. Duplicate TC relating to UG /PG degree should be accompanied by proper evidence of loss of original TC, Police complaint with not traceable and Affidavit. Candidates submitting false TC are liable for cancellation of seat at any stage and are liable for prosecution. (Admission will not be given if T.C of the institution where the candidate studied last is not submitted).
- Migration Certificate (for other Universities candidates).
- Date of Birth Certificate (SSC/Matriculation or equivalent Certificate).
- Study Certificates for the last seven years or Residence Certificate for preceding seven years of the qualifying examination.
- Intermediate original certificate.
- Integrated Community Certificate issued by the competent authority in case of SC/ST/BC/EBC/Minority candidates.
- Valid latest income certificate issued by M.R.O./Thasildar if fee concession is claimed / white ration card (the validity of income certificate is for one year from the date of issue).
- 4 recent passport size Photos.
- Candidates opting for admission under NCC/Sports/CAP/PH/NSS quota must produce relevant original certificates, in addition to the above. PH certificate must be issued by the concerned medical board in the Govt. hospital.
- Discharge certificate and service certificate of the parent in case of a child of armed personnel.
- Physical fitness certificate from an Asst. Civil Surgeon.
- One set of Photostat copies of all the above certificates.
- After verification of the certificates, at the helpline centre, the candidate will get all his/her Original certificates back except T.C., C.C. and Migration certificate. The receipt of original certificates shall be given to the candidate.

*Repeat*

**I Phase Counseling:**

S.No.	All other Categories I Phase counseling for All Ranks	Venue (any one of the centers)	Time	Date
1.	Web Counseling & Certificate verification for Physical Sciences (102) and Computer Sciences (106)	1.Ch.S.D.St.Theresa College for Women (A), Eluru 2. Aditya Degree College, Rajahmundry 3. D.N.R College (A), Bhimavaram 4. AKNU M.S.N Campus, Kakinada 5. S.K.B.R PG College, Amalapuram	9.00 AM	05-06-2019
2.	Web Counseling & Certificate verification for Humanities & Social Sci. (201) Chemical Sciences (104) and Hindi (204)			06-06-2019
3.	Web Counseling & Certificate verification for Mathematical Sciences (103) English (202) and M.P.Ed (205)			07-06-2019
4.	Web Counseling & Certificate verification for Life Sciences (101) Telugu (203) and Geology (105)			08-06-2019
5.	Web options open			05-06-2019 to 11-06-2019
6.	Allotment of seats			13-06-2019
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**Special Category Counseling:**

S.No.	Special Category Counseling for All Ranks & All Tests.	Venue	Time	Date
1	Manual Admissions for Sports, NCC & CAP	Adikavi Nannaya University Campus, Rajamahendravaram	09.00 AM	09-06-2019
2	Manual Admissions for NSS & PH			10-06-2019

**DIRECTORATE OF ADMISSIONS  
ADIKAVI NANNAYA UNIVERSITY, RAJAMAHENDRAVARAM  
NANNAYACET - 2019 - RANK CARD**



Hall Ticket No : 081020012

Reg.No : 201614

Application No : 119132

Name : HARIKA CHEEPURU  
Gender : Female  
Date of Birth : 29-05-1998  
Father's Name : CHEEPURU LAKSHMI VARA PRASAD  
Address :  
Door No : 10-5-7  
Street : SATYANARAYANA PETA  
Town : ELURU  
City : ELURU  
District : WEST GODAVARI  
State : ANDHRA PRADESH  
Pin : 524001

Category : BCB

Test : 102-102-Physical Sciences
Marks Obtained:
37
<b>RANK</b>
86



CH. Harika

DIRECTOR, DO  
NANNAYACET-21

**Note :**

- Admission into any course is subject to fulfillment of eligibility criteria for that course.
- Any correction in biodata should be brought to the notice of the Convener at the time of counseling.

**Certificates to be submitted at the verification center.**

- NANNAYA CET - 2019 Rank Card & Hall Ticket and Counseling fee of Rs. 500/- (Rs.250/- for SC and ST and PwD)
- Degree/Provisional Pass Certificate.
- Consolidated Marks statement of the Qualifying Examination.
- Transfer and Conduct Certificate from the institution where the candidate last studied. Candidates who have completed/studied already or discontinued and seeking admission to second PG or professional course should submit TC relating to first PG course only. Duplicate TC relating to UG / PG degree should be accompanied by proper evidence of loss of original TC, Police complaint with not traceable and Affidavit. Candidates submitting false TC are liable for cancellation of seat at any stage and are liable for prosecution. (Admission will not be given if T.C of the institution where the candidate studied is not submitted).
- Migration Certificate (for other Universities candidates).
- Date of Birth Certificate (SSC/Matriculation or equivalent Certificate).
- Study Certificates for the last seven years or Residence Certificate for preceding seven years of the qualifying examination.
- Intermediate original certificate.
- Integrated Community Certificate issued by the competent authority in case of SC, ST, BC, EBC, Minority candidates.
- Valid latest income certificate issued by M.R.O./Thasildar if fee concession is claimed / white ration card (the validity of income certificate is for one year from the date of issue).
- 4 recent passport size Photos.
- Candidates opting for admission under NCC/Sports/CAP/PH/NSS quota must produce relevant original certificates, in addition to the above. PwD certificate must be issued by the concerned medical board in the Govt. hospital.
- Discharge certificate and service certificate of the parent in case of a child of armed personnel.
- Physical fitness certificate from an Asst. Civil Surgeon.
- One set of Photostat copies of all the above certificates.
- After verification of the certificates, at the helpline centre, the candidate will get all his/her Original certificates back except T.C., C.C. and Migration certificate. The receipt of original certificates shall be given to the candidate.

**I Phase Counseling**

S.No.	All other Categories I Phase counseling for All Ranks	Venue (any one of the centers)	Time	Date
1.	Web Counseling & Certificate verification for Physical Sciences (112) and Computer Sciences (116)	1.Ch.S.D.St.Themsa College for Women (A), Eluru 2. Aditya Degree College, Rajamahendravaram 3. D.N.R College (A), Bhimavaram 4. AKNU M.S.N Campus, Kakinaada 5. S.K.B.R PG College, Amalapuram	9.30 AM	05-06-2019
2.	Web Counseling & Certificate verification for Humanities & Social Sci. (211) Chemical Sciences (114) and Hindi (204)			06-06-2019
3.	Web Counseling & Certificate verification for Mathematical Sciences (113) English (212) and M.P.Ed (215)			07-06-2019
4.	Web Counseling & Certificate verification for Life Sciences (111) Telugu (213) and Geology (115)			08-06-2019
5.	Web options open			
6.	Allotment of seats			05-06-2019 to 12-06-2019
7.	Payment of course fee for the allotted seats			12-06-2019
<b>Special Category Counseling</b>				
				12-06-2019 to 14-06-2019

**Special Category Counseling**

S.No.	Special Category Counseling for All Ranks & All Tests.	Venue	Time	Date
1	Manual Admissions for Sports, NCC & CAP	Adikavi Nannaya University Campus, Rajamahendravaram	09.30 AM	14-06-2019
2	Manual Admissions for NSS & PH			10-06-2019



**DIRECTORATE OF ADMISSIONS**  
**ADIKAVI NANNAYA UNIVERSITY, RAJAMAHENDRAVARAM**  
**NANNAYACET - 2019 :: RANK CARD**



Hall Ticket No : 081020041

RegNo : 204094

Application No : 103786

Name : RAMYA NUTHI  
 Gender : Female  
 Date of Birth : 03-10-1998  
 Father's Name : NUTHI VENKATESWARA RAO  
 Address :  
 DoorNo : 1-33/1  
 Street : VEGIVADA  
 Town : K KANNAPURAM  
 City : PEDAVEGI  
 District : WEST GODAVARI  
 State : ANDHRA PRADESH  
 Pin : 524452

Category : BCB

Test : 102-Physical Sciences

Marks Obtained:

33

RANK

171



N. Ramya

*[Signature]*

DIRECTOR, DOA  
 NANNAYACET-2019

**Note :**

- Admission into any course is subject to fulfilment of eligibility criteria for that course.
- Any correction in biodata should be brought to the notice of the Convener at the time of counseling.

**Certificates to be submitted at the verification center**

- NANNAYA CET - 2019 Rank Card & Hall Ticket and Counseling fee of Rs. 500/- (Rs.250/- for SC and ST and PH).
- Degree/Provisional Pass Certificate.
- Consolidated Marks statement of the Qualifying Examination.
- Transfer and Conduct Certificate from the institution where the candidate last studied. Candidates who have completed /studied already or discontinued and seeking admission to second PG or professional course should submit TC relating to first PG course only. Duplicate TC relating to UG / PG degree should be accompanied by proper evidence of loss of original TC, Police complaint with not traceable and Affidavit. Candidates submitting false TC are liable for cancellation of seat at any stage and are liable for prosecution. (Admission will not be given if T.C of the institution where the candidate studied last is not submitted).
- Migration Certificate (for other Universities candidates).
- Date of Birth Certificate (SSC/Matriculation or equivalent Certificate).
- Study Certificates for the last seven years or Residence Certificate for preceding seven years of the qualifying examination.
- Intermediate original certificate.
- Integrated Community Certificate issued by the competent authority in case of SC/ST/BC/EBC/Minority candidates.
- Valid latest income certificate issued by M.R.O./Thasildar if fee concession is claimed / white ration card (the validity of income certificate is for one year from the date of issue).
- 4 recent passport size Photos.
- Candidates opting for admission under NCC/Sports/CAP/PH/NSS quota must produce relevant original certificates, in addition to the above. PH certificate must be issued by the concerned medical board in the Govt. hospital.
- Discharge certificate and service certificate of the parent in case of a child of armed personnel.
- Physical fitness certificate from an Asst. Civil Surgeon.
- One set of Photostat copies of all the above certificates.
- After verification of the certificates, at the helpline centre, the candidate will get all his/her Original certificates back except T.C., C.C. and Migration certificate. The receipt of original certificates shall be given to the candidate.

**I Phase Counseling:**

S.No.	All other Categories I Phase counseling for All Ranks	Venue (any one of the centers)	Time	Date
1.	Web Counseling & Certificate verification for Physical Sciences (102) and Computer Sciences (106)	1 Ch.S.D.St.Theresa College for Women (A), Eluru		05-06-2019
2.	Web Counseling & Certificate verification for Humanities & Social Sci. (201)			

**DIRECTORATE OF ADMISSIONS  
ADIKAVI NANNAYA UNIVERSITY, RAJAMAHENDRAVARAM  
NANNAYACET - 2019 :: RANK CARD**



Hall Ticket No : 081020023

RegNo : 202743

Application No : 100397

Name : MARY PRASANNA NATHA

Category : BCC

Gender : Female

Date of Birth : 20-08-1998

Father's Name : Natha Mariyanna

Address :

DoorNo : 8-101

Street : SBI STREET

Town : VATLURU

City : ELURU

District : WEST GODAVARI

State : ANDHRA PRADESH

Pin : 534007

Test : 102-Physical Sciences

Marks Obtained:

34

**RANK**

137



N. Mary prasanna

DIRECTOR, DOA  
NANNAYACET-2019

**Note :**

Admission into any course is subject to fulfilment of eligibility criteria for that course.

Any correction in biodata should be brought to the notice of the Convener at the time of counseling.

**Certificates to be submitted at the verification center**

- (i) NANNAYA CET - 2019 Rank Card & Hall Ticket and Counseling fee of Rs. 500/- (Rs.250/- for SC and ST and PH).
- (ii) Degree/Provisional Pass Certificate.
- (iii) Consolidated Marks statement of the Qualifying Examination.
- (iv) Transfer and Conduct Certificate from the institution where the candidate last studied. Candidates who have completed /studied already or discontinued and seeking admission to second PG or professional course should submit TC relating to first PG course only. Duplicate TC relating to UG / PG degree should be accompanied by proper evidence of loss of original TC. Police complaint with not traceable and Affidavit. Candidates submitting false TC are liable for cancellation of seat at any stage and are liable for prosecution. (Admission will not be given if T.C of the institution where the candidate studied last is not submitted).
- (v) Migration Certificate (for other Universities candidates).
- (vi) Date of Birth Certificate (SSC/Matriculation or equivalent Certificate).
- (vii) Study Certificates for the last seven years or Residence Certificate for preceding seven years of the qualifying examination.
- (viii) Intermediate original certificate.
- (ix) Integrated Community Certificate issued by the competent authority in case of SC/ST/BC/EBC/Minority candidates.
- (x) Valid latest income certificate issued by M.R.O./Thasildar if fee concession is claimed / white ration card (the validity of income certificate is for one year from the date of issue).
- (xi) 4 recent passport size Photos.
- (xii) Candidates opting for admission under NCC/Sports/CAP/PH/NSS quota must produce relevant original certificates, in addition to the above. PH certificate must be issued by the concerned medical board in the Govt. hospital.
- (xiii) Discharge certificate and service certificate of the parent in case of a child of armed personnel.
- (xiv) Physical fitness certificate from an Asst. Civil Surgeon.
- (xv) One set of Photostat copies of all the above certificates.
- (xvi) After verification of the certificates, at the helpline centre, the candidate will get all his/her Original certificates back except T.C., C.C. and Migration certificate. The receipt of original certificates shall be given to the candidate.

I Phase Counseling:		Venue (any one of the centers)	Time	Date
S.No.	All other Categories I Phase counseling for All Ranks			
1.	Web Counseling & Certificate verification for Physical Sciences (102) and Computer Sciences (106)	1.Ch.S.D.St.Theresa College for Women (A), Eluru	9.00 AM	05-06-2019
2.	Web Counseling & Certificate verification for Humanities & Social Sci. (201) Chemical Sciences (104) and Hindi (204)	2. Aditya Degree College, Rajahmundry		06-06-2019
3.	Web Counseling & Certificate verification for Mathematical Sciences (103) English (202) and M.P.Ed (205)	3. D.N.R College (A), Bhlmavaram		07-06-2019
4.	Web Counseling & Certificate verification for Life Sciences (101) Telugu (203) and Geology (105)	4. AKNU M.S.N Campus, Kakinada 5. S.K.B.R PG College, Amalapuram		08-06-2019
5.	Web options open			05-06-2019 to 11-06-2019
6.	Allotment of seats			13-06-2019
7.	Payment of course fee for the allotted seats			13-06-2019 to 16-06-2019
Special Category Counseling:				
S.No.	Special Category Counseling for All Ranks & All Tests.	Venue	Time	Date
1	Manual Admissions for Sports, NCC & CAP	Adikavi Nannaya University Campus, Rajamahendravaram	09.00 AM	09-06-2019
2	Manual Admissions for NSS & PH			10-06-2019

**DIRECTORATE OF ADMISSIONS  
ADIKAVI NANNAYA UNIVERSITY, RAJAMAHENDRAVARAM  
NANNAYACET - 2019 :: RANK CARD**



Hall Ticket No : 081020065 RegNo : 206089 Application No : 108900

Name: VASAVIPACHVA  
Gender: Female  
Date of Birth: 26-08-1993  
Father's Name: HANUMANTHA RAO  
address :  
DoorNo: 3-150/1  
Street: MAIN ROAD  
Town: NYAYAMPALLI  
City: ELURU  
District: WEST GODAVARI  
State: ANDHRA PRADESH  
Pin: 534450

Category: GENERAL(OC)


Test: 102-Physical Sciences

Marks Obtained:

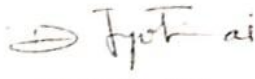
28

**RANK**

**306**



P. Vasavi



**DIRECTOR, DOA  
NANNAYACET-2019**

**Note :**  
Admission into any course is subject to fulfilment of eligibility criteria for that course.  
Any correction in bio.data should be brought to the notice of the Convener at the time of counseling.

**Certificates to be submitted at the verification center**

- (i) NANNAYACET - 2019 Rank Card & Hall Ticket and Counseling fee of Rs. 500/- (Rs.250/- for SC and ST and PH).
- (ii) Degree/Provisional Pass Certificate.
- (iii) Consolidated Marks statement of the Qualifying Examination.
- (iv) Transfer and Conduct Certificate from the institution where the candidate last studied. Candidates who have completed /studied already or discontinued and seeking admission to second PG or professional course should submit TC relating to first PG course only. Duplicate TC relating to UG / PG degree should be accompanied by proper evidence of loss of original TC, Police complaint with not traceable and Affidavit. Candidates submitting false TC are liable for cancellation of seat at any stage and are liable for prosecution. (Admission will not be given if T.C of the institution where the candidate studied last is not submitted).
- (v) Migration Certificate (for other Universities candidates)
- (vi) Date of Birth Certificate (SSC/Matriculation or equivalent Certificate)
- (vii) Study Certificates for the last seven years or Residence Certificate for preceding seven years of the qualifying examination.
- (viii) Intermediate original certificate.
- (ix) Integrated Community Certificate issued by the competent authority in case of SC/ST/BC/EBC/Minority candidates.
- (x) Valid latest income certificate issued by M.R.O./Thasildar if fee concession is claimed / white ration card (the validity of income certificate is for one year from the date of issue)
- (xi) 4 recent passport size Photos
- (xii) Candidates opting for admission under NCC/Sports/CAP/PH/NSS etc., must produce relevant original certificates, in addition to the above. PH certificate must be issued by the concerned medical board in the Govt. hospital.
- (xiii) Discharge certificate and service certificate of the parent in case of a child of armed personnel.
- (xiv) Physical fitness certificate from an Asst. Civil Surgeon.
- (xv) One set of Photostat copies of all the above certificates.
- (xvi) After verification of the certificates, at the helpline centre, the candidate will get all his/her Original certificates back except T.C., C.C. and Migration certificate. The receipt of original certificates shall be given to the candidate.

**Phase Counseling:**

S.No.	All other Categories   Phase counseling for All Ranks	Venue (any one of the centers)	Time	Date
1.	Web Counseling & Certificate verification for Physical Sciences (102) and Computer Sciences (106)	1.Ch.S.D.St. Theresa College for Women (AI), Eluru 2. Aditya Degree College, Rajahmundry 3. D.N.R College (AI), Bhimavaram 4. AKNU M.S.N Campus, Kakinada 5. S.K.B.R PG College, Amalapuram	9.00 AM	05-06-2019
2.	Web Counseling & Certificate verification for Humanities & Social Sci. (201)			06-06-2019
3.	Web Counseling & Certificate verification for Mathematical Sciences (103)			07-06-2019
4.	Web Counseling & Certificate verification for Life Sciences (104) Telugu (203) and Geology (105)			08-06-2019
5.	Web options open			05-06-2019 to 11-06-2019
6.	Allotment of seats			13-06-2019
7.	Payment of course fee for the allotted seats			13-06-2019 to 16-06-2019

**Special Category Counseling:**

S.No.	Special Category Counseling for All Ranks & All Tests.	Venue	Time	Date
1.	Manual Admissions for Sports, NCC & CAP	Adikavi Nannaya University Campus, Rajamahendravaram	09.00 AM	09-06-2019
2.	Manual Admissions for NCC & PH			10-06-2019

## Photo Gallery



PG ENTRANCE COACHING CLASSES BY SIRISHA MADAM