

**TELANGANA RESIDENTIAL EDUCATIONAL INSTITUTION SOCIETY (REGD) HYDERABAD**

**TSRJC-CET – 2024**  
**INFORMATION BULLETIN**

TREI Society has established Residential Junior Colleges with an objective to provide quality education to the talented children. Presently, TREI Society is managing 35 TS Residential Junior Colleges (15 for Boys and 20 for Girls).

<b>S no.</b>	<b>Category of TSR Jr College</b>	<b>No. of Colleges</b>
1	General Boys	15
2	General Girls	20
<b>Total</b>		<b>35</b>

**1.Salient features of TSR Junior Colleges:-**

- All the TSR Junior Colleges are providing education in Residential Mode
- Individual attention is being paid to each student
- Loco Parent system is implemented by appointing Lecturers as loco parents
- Day starts with the physical exercises and Classes will commence at 5.30 AM and academic activities will continue till 10.00 pm in the night.
- Apart from the academic activities, importance is given to sports and games and other co-curricular activities for all-round development of students.

**2. Facilities and fee payable to the college at the time of Admission at all TSR Junior Colleges:**

TSR Junior Colleges are having adequate infrastructure facilities in addition to well equipped laboratories, libraries, reading rooms and play grounds with well equipped physical education department. The colleges offer **free education besides free boarding and lodging** facilities to all selected candidates. Special care shall be taken for talented students staying in the hostel.

**3. Particulars of available courses, seats and Jurisdiction for admission in each Residential Junior college are detailed below:**

S No	Name of the Residential Junior College			District	Jurisdiction for Admission (Students from the Districts)	Medium	Available Courses and Seats			
							MPC	BPC	MEC	Total
1	TSRJC	Boys	Sarvail	Yadadri Bhuvanagiri	33 Telangana Districts	English	88	60	30	178
2	TSRJC	Girls	Hasanparthy	Hanmakonda	33 Telangana Districts	English	88	60	30	178
<b>33 TSR Schools Upgraded as Junior Colleges as detailed below</b>										
3	TSRJC	Boys	Beechupalli	Gadwal Jogulamba	Gadwal Jogulamba, Mahabubnagar, Wanaparthy, Nagarkurnool, Narayanpet	English	40	40		80
4	TSRJC	Girls	Balanagar	Mahabubnagar		English	40	40		80
5	TSRJC	Boys	Borabanda(B)	Hyderabad	Hyderabad	English	40	40		80
6	TSRJC	Girls	Borabanda(G)	Hyderabad		English	40	40		80
7	TSRJC	Boys	Keesaragutta	Medchal	Medchal,Rangareddy, Vikarabad	English	40	40		80
8	TSRJC	Girls	Vikarabad	Vikarabad		English	40	40		80
9	TSRJC	Girls	Tandur	Vikarabad		English	40	40		80
10	TSRJC	Boys	Lingampalli	Sangareddy	Sangareddy, Medak, Siddipet	English	40	40		80
11	TSRJC	Girls	Digwal	Sangareddy		English	40	40		80
12	TSRJC	Boys	Toopran	Medak		English	40	40		80
13	TSRJC	Girls	Medak	Medak		English	40	40		80
14	TSRJC	Girls	Siddipet	Siddipet		English	40	40		80
15	TSRJC	Boys	Pochampad(B)	Nizamabad	Nizamabad, Kamareddy	English	40	40		80
16	TSRJC	Girls	Pochampad(G)	Nizamabad		English	40	40		80
17	TSRJC	Boys	Madnur	Kamareddy		English	40	40		80
18	TSRJC	Girls	Bodhan	Nizamabad		English	40	40		80
19	TSRJC	Boys	Bellampalli	Mancherial	Mancherial, Nirmal, Komuram Bheem, Adilabad	English	40	40		80
20	TSRJC	Girls	Nirmal	Nirmal		English	40	40		80
21	TSRJC	Boys	Peddapurcamp	Jagityal	Jagityal, Peddpalli,Rajanna Siricilla, Karimnagar	English	40	40		80
22	TSRJC	Girls	Tatipalli	Jagityal		English	40	40		80
23	TSRJC	Boys	Medaram	Peddapalli		English	40	40		80
24	TSRJC	Girls	Nerella	Rajanna Siricilla		English	40	40		80
25	TSRJC	Boys	Bandarupalli	Jayashanker Bhupalapalli	Warangal, Hanamkonda, Mahabubabad, Janagoan, Jayashanker Bhupalapalli,Mulugu	English	40	40		80
26	TSRJC	Boys	Velair	Warangal(U)		English	40	40		80
27	TSRJC	Girls	Kodakandla	Janagoan		English	40	40		80
28	TSRJC	Girls	Vangara	Hanmakonda		English	40	40		80
29	TSRJC	Girls	Nekkonda	Warangal(R)		English	40	40		80
30	TSRJC	Boys	Enkoor	Khammam	Khamamm Bhadradi Kothagudem	English	40	40		80
31	TSRJC	Girls	Wyra	Khammam		English	40	40		80
32	TSRJC	Girls	Burgampahad	Bhadradi Kothagudem		English	40	40		80
33	TSRJC	Girls	Choutuppal	Yadadri Bhuvanagiri	Yadadri Bhuvanagiri, Suryapet, Nalgonda	English	40	40		80
34	TSRJC	Girls	Ramannapet	Yadadri Bhuvanagiri		English	40	40		80
35	TSRJC	Boys	Thungathurthy	Suryapet		English	40	40		80

## 5. Reservations:

- Rule of reservation shall be followed as per Government order issued from time to time
- In our Residential pattern no faculty for teaching to **Blind, Deaf & Dumb candidates.**
- \* **EWS Applicable**

## 6. Eligibility :

- a) Candidate must be a resident of India and must have studied previous classes in TELANGANA only.
- b) Must have passed the qualifying examination **in first attempt in March, 2024 only**. Candidates who have passed in earlier years are not eligible and **need not apply**.
- c) OC Candidate must secure a minimum GPA of **6** and BC, SC, ST and minority candidates must secure minimum GPA of **5** in S.S.C or equivalent qualifying examination and GPA of 4 in English for all the candidates.

7. **Date of Examination: 21-04-2024** from 10.00 AM to 12.30 PM.

8. **Examination Centers:** District Head Quarters of 1) Adilabad, 2) Warangal, 3) Karimnagar, 4) Khammam, 5) Nizamabad, 6) Nalgonda, 7) Mahaboobnagar, 8) Hyderabad 9) Ranga Reddy 10) Sangareddy 11) Siddipet, 12) Medak  
**(Candidate may choose any CENTER to appear for Test)**

9. **Scheme of Examination:** Question paper shall be issued in Telugu/English (bilingual) only.

Code No.	GROUP	SUBJECTS IN THE ENTRANCE TEST	DURATION	MAX. MARKS
01	MPC	English-Mathematics-Physical Science	2 ½ hours	150
02	BPC	English-Bio. Science-Physical Science	2 ½ hours	150
03	MEC	English-Social Studies- Mathematics	2 ½ hours	150

The test is of objective type with 2½ hrs duration for 150 marks (50 marks for each subject). The candidates have to mark their answers in the OMR sheets. Model Question papers are available in the Website: <http://tsrjdc.cgg.gov.in>. **The question papers of TSRJC CET will be based on 10<sup>th</sup> standard in Telangana state syllabus for subjects and English will be General English.**

## 10. HOW TO APPLY:

1. Candidates seeking admission into Inter First year in 35 TS Residential Junior Colleges for the academic year 2024-25 have to apply for TSRJC Common Entrance Examination through online by visiting <http://tsrjdc.cgg.gov.in>.

2. **Schedule for applying online application:**

**Last Date for submission of online application : 16-03-2024**

3. **Examination Fee: Rs.200/-**

**Steps to be followed in submission of the application through 'Online'.**

- i. The candidate shall first go through the information bulletin carefully and satisfy their eligibility for appearing for TSRJC-CET 2024.

- ii. The candidate after satisfying himself/ herself about the eligibility criteria for the submission of application through online shall pay **a fee of Rs.200/- through ONLINE or through Credit card (Payment gateway ) for submission of application through Online.**
- iii. At the ONLINE CENTER or PAYMENT GATEWAY (By Credit Card/Debit Card) the candidate has to give the required preliminary data (i.e. Name of the candidate, Date of birth and mobile number).
- iv. On receipt of **fees** at ONLINE or PAYMENT GATEWAY, the **candidate shall be issued a Journal Number** with which she/ he can proceed with submission of application through online through the website **http://tsrjdc.cgg.gov.in**. **Issue of Journal Number does not mean that the candidate has completed submission of application online. It is only a confirmation of the fee received.**
- v. Before submission of the Online application form, the candidate has to fill up the Model Application form (given at annexure)
- vi. Candidate who are appearing for SSC Board Examinations in March & April,2024 have to fill the online application.
- vii. The applicants shall follow the procedure for submission of online application as given in the 'Information Bulletin' and also as per the instructions provided online while filling up the online application form. The Candidate should be ready with photograph of size **3.5 X 4.5** cms. Before filling in on-line application. The Photo should be scanned and uploaded along with the application form.
- viii. While filling the online application, the candidate has to opt for the course. Once a course is opted, that cannot be changed.
- ix. The applicants may not possess any certificate at the time of application, but they must obtain original certificates (Caste, Income, Study, Special category) by the time of counselling.
- x. On submission of application ONLINE, the candidate has to take a copy (print) of application form in which a **reference number is given**. This Reference number is required to download the Hall Ticket. The copy of online application is to be preserved for further reference.
- xi. **For any mistakes/ incorrect information, the candidate is solely held responsible.** Hence, they must take **utmost care** while filling the online application.
- xii. The Applications of the **ineligible** candidates will be summarily **rejected**.
- xiii. The selected Candidate **must produce the original certificates** mentioned in the application at the time of admission.
- xiv. The selection of the candidate will be summarily rejected if they fail to submit the necessary documents at the time of admission.

#### **11. Issue of Hall Tickets:**

- Candidates can download their Hall Tickets from the website at **http://tsrjdc.cgg.gov.in** from \_\_\_\_\_ to \_\_\_\_\_ with the reference number allotted to them.
- Candidates have to download the hall tickets from the website only. No printed hall ticket shall be issued/ posted to the candidate.
- Request for issue of duplicate Hall Ticket will not be entertained.
- No candidate will be allowed to appear for the examination, without hall ticket

**12 Declaration of Results:** Will be hosted in web site after completion of SSC Exams-2024.

**13. Selection Criteria:**

- (i) Selection of students will be made based on the merit in Common Entrance examination, Reservation, Special category and Local area.
- (ii) The seats under special category in MPC, BPC, MEC will be given on the basis of common merit list of Children of Armed Personnel, PHC and Sports categories against OC.
- (iii) Under PHC category, seats will be allotted based on the merit of the entrance test among the PHC candidates. Minimum disability is 40%.
- (iv) Under Sports category, seats will be allotted based on the merit in the entrance test among the sports category.
- (v) Under CAP (Children of Armed Personnel) category, the parent of the candidate must be an ex-serviceman or presently serving in defence service. The seats will be allotted based on the merit in the entrance test. NCC candidates are not eligible under CAP category
- vi) In case of tie among the candidates with same marks in the entrance test, the order of the merit will be decided as follows:
  - a) The higher marks secured by the candidate in Mathematics for MPC, Biological Science for BPC and Social Studies for MEC will be considered.
  - b) If still the tie persists, the higher marks secured by the candidate in Physical Science for MPC and for BPC, Mathematics for MEC will be considered.
  - c) If still the tie persists, it will be decided by taking advanced age as criteria.
  - d) If there is a tie between male and female candidates, then female candidate shall be given higher rank.
  - e) If still the tie persists, candidates belonging to the following communities (in that order) shall be given a higher rank:
    - f) ST ,SC,BC – A,BC – B,BC – C,BC – D,BC – E,OC,

NOTE:- The information furnished in application by the candidate will only be considered and registered and if any candidate fails to fill the complete information or given wrong information, the fault lies with the candidate only.

**14. ADMISSION:-**

- i) Admissions will be made through Counselling. The Hall ticket Numbers of the shortlisted candidates for counselling shall be made available on the website: <http://tsrjdc.cgg.gov.in>. Candidates will be shortlisted based on merit in the Entrance Test. Candidates will be called for counselling for allotment of seats for admission in the ratio of **1:5**.
- ii) The candidates are personally held responsible for incorrect information in the application form.
- iii) The convenor reserves the right to cancel the admission at any stage, if the particulars furnished by the candidate are found incorrect or against the rules of admissions.

**15. Tentative Date for First counselling : May 2024.**

**16.** The jurisdiction for any appeal to be settled is in Hyderabad city courts only. The reference period for such appeal is before the completion of admissions of academic year 2024-25 or before the last date of admission into first year intermediate as announced by TSBIE, Hyderabad.

**17. Special fee: No Fee is collected**



Convenor,  
TSRJC-CET-2024

**Annexure**  
**Telangana Residential Educational institutions Society (Regd.), Hyderabad**  
**(TSRJC Common Entrance Test-2024 for admission into Intermediate FIRST year in TSR**  
**Junior Colleges)**

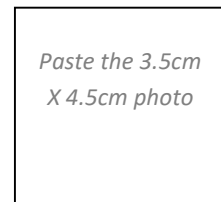
**APPLICATION FORM**

1	Name of the Candidate	:												
2	Surname	:												
3	Mother's Name	:												
4	Father's Name	:												
5	Gender	:	Male				Female							
6	Date of Birth	:	D	D	M	M	Y	E	A	R				
7	Medium of Study in Class X	:	Telugu				English							
8	Name of the District in which he/ she desires to appear for Test	:												
9	Native District as per Study/ Nativity (District in which Studied continuously for 4 years out of 7 years from class I to VII/ Nativity for private study)	:												
10	Reservation Category (OC/ BC-A/ BC-B/ BC-C/ BC-D/ BC-E/ SC/ ST)	:												
11	Reservation under Special Category (PHC/ Sports/ CAP (Children of Armed Personnel) If PHC write % of disability also) And EWS & orphan	:	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px 10px;">PHC</div> <div style="border: 1px solid black; padding: 2px 10px;">Sport</div> <div style="border: 1px solid black; padding: 2px 10px;">CAP</div> <div style="border: 1px solid black; padding: 2px 10px;">EWS</div> <div style="border: 1px solid black; padding: 2px 10px;">Orpha</div> </div>											
13	Category of course Opted (MPC/ BPC) (MEC for Girls Hasanparthy & Boys for Sarvail only)	:	<input style="width: 50px; height: 20px;" type="text"/> <input style="width: 50px; height: 20px;" type="text"/> <input style="width: 50px; height: 20px;" type="text"/>											
14	Postal Address	:	H.No.											
		Village												
		Mandal												
		District												
		Pin code												
		Mobile Nos.	1					2						
		<b>Note:</b> Mobile No shall be the individual or parent only												

**DECLARATION**

I declare that I have read the Information Bulletin of TSRJC CET 2024. I am appearing for SSC Public Examinations, March-2024 as a fresh candidate (Not compartmental). Particulars furnished above are true and correct to the best of my knowledge and belief.

15. Latest Photo of the Candidate



Signature of the Candidate

TELANGANA RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETY(REGD.)  
HYDERABAD

TELANGANA STATE RESIDENTIAL JUNIOR COLLEGES COMMON ENTRANCE TEST 2024

సూచనలు :

- ఈ పత్రమును మడవడం కాని, చింపటం కాని, పిన్నులు కొట్టడం కాని చేయరాదు.
- సమాధానములను గుర్తించుటకు బ్లూ / బ్లూ బాల్ పాయింట్ పెన్ మాత్రమే వాడండి.
- బ్లూ / బ్లూ బాల్ పాయింట్ పెన్ తో సమాధానానికి గుర్తు గల వృత్తమును పూర్తిగా నింపండి.
- ఇంకు పెన్ వాడరాదు.

	వృత్తమును సరిగ్గా నింపుట	వృత్తమును తప్పుగా నింపుట
1. మీ సమాధానం (1) ఐతే	01 <input checked="" type="radio"/> ① ② ③ ④	01 <input checked="" type="radio"/> ① ② ③ ④
2. మీ సమాధానం (2) ఐతే	02 ① <input checked="" type="radio"/> ③ ④	02 ① <input checked="" type="radio"/> ③ ④
3. మీ సమాధానం (3) ఐతే	03 ① ② <input checked="" type="radio"/> ④	03 ① ② <input checked="" type="radio"/> ④
4. మీ సమాధానం (4) ఐతే	04 ① ② ③ <input checked="" type="radio"/> ④	04 <input checked="" type="radio"/> ② ③ <input checked="" type="radio"/> ④
5. మీ సమాధానం (2) ఐతే	05 ① <input checked="" type="radio"/> ③ ④	05 ① <input checked="" type="radio"/> ③ ④

- ప్రతి ప్రశ్నకు ఒక్క సమాధానాన్నే పైన సూచించినట్లుగా బ్లూ / బ్లూ బాల్ పాయింట్ పెన్ తో నింపండి.
- పై సూచనలను పాటించనిచో, మీ సమాధానములు పరిశీలించబడవు.
- ఓ.యం.ఆర్. పత్రంలో కాని ప్రశ్నాపత్రంలో కాని లోపమున్నచో ఇన్విజిటర్లవద్ద వద్ద నుంచి మరియుక ఓ.యం.ఆర్. పత్రం లేదా ప్రశ్నాపత్రంను ప్రారంభంలోనే తీసుకోవండి.

INSTRUCTIONS:

- Do not Fold, Tear, Wrinkle or Staple this sheet.
- Use Blue/Black ball point Pen only to fill the circles.
- Completely fill the circles corresponding to the answers with Blue/Black ball point Pen.
- Ink Pen should not be used.

	Correct way of marking	Incorrect way of marking
1. If your answer is (1)	01 <input checked="" type="radio"/> ① ② ③ ④	01 <input checked="" type="radio"/> ① ② ③ ④
2. If your answer is (2)	02 ① <input checked="" type="radio"/> ③ ④	02 ① <input checked="" type="radio"/> ③ ④
3. If your answer is (3)	03 ① ② <input checked="" type="radio"/> ④	03 ① ② <input checked="" type="radio"/> ④
4. If your answer is (4)	04 ① ② ③ <input checked="" type="radio"/> ④	04 <input checked="" type="radio"/> ② ③ <input checked="" type="radio"/> ④
5. ....	05 ① <input checked="" type="radio"/> ③ ④	05 ① <input checked="" type="radio"/> ③ ④

- Make only one choice for each question as indicated.
- In case you do not follow the above instructions your answers will be rejected.
- If the OMR Sheet or Question Paper Booklet is defective, ask invigilator to change it at the beginning of the test.

(P.T.O.) for OMR Answer Sheet

**Model Question paper for MPC, BPC, MEC**

**English**

- 1) It is ..... hot to go out  
1) too    2) much    3) very    4) only
- 2) There ..... any petrol left in the car (identify the right option to fill in the blank)  
1) Was    2) were    3) were not    4) was not
- 3) I..... to join home at ten O clock. (choose the right option to fill in the blank)  
1) am expecting    2) hope    3) wait    4) am look forward
- 4) Gold, silver or lead, which is .....?  
Identify the right option to fill in the blank.  
1) The most precious    2) more precious    3) precious    4) more than precious

**Mathematics**

- 1) If  $\tan \theta + \sec \theta = 3$ , then value of  $\sin \theta$  is .....  
 $\tan \theta + \sec \theta = 3$  అయిన  $\sin \theta$  విలువ .....
- 1)  $\frac{4}{5}$     2)  $\frac{3}{5}$     3)  $\frac{7}{18}$     4)  $\frac{15}{18}$
- 2) If  $4x^2 - 6x - k$  is exactly divisible by  $x - 3$ , then value of  $k$  is .....  
 $4x^2 - 6x - k$  అనే బహుపది  $x - 3$  చే నిశ్చేషంగా భాగింపబడితే  $k$  విలువ .....
- 1) 18    2) 24    3) 16    4) 21
- 3) The point lying on x-axis and equidistant from (3, 5) and (4, 2) is .....  
(3, 5) మరియు (4, 2) బిందువులకు సమాన దూరంలో వుంటూ x- అక్షంపై ఉండే బిందువు
- 1) (-7, 0)    2) (6, 0)    3) (5, 0)    4) (16, 0)
- 4) The ratio in which X-axis divides the segment joining (5, 7), (-1,3) is .....  
(5, 7), (-1,3) బిందువులను కలిపే రేఖా ఖండాన్ని x- అక్షం విభజించే నిష్పత్తి .....
- 1) 7 : 3 internally    2) 5 : 1 externally    3) 7 : 3 externally    4) 5 : 1 internally
- 1) 7 : 3 అంతరంగా    2) 5 : 1 బాహ్యంగా    3) 7 : 3 బాహ్యంగా    4) 5 : 1 అంతరంగా

**Physical Sciences**

- 1) The Saturated vapour surrounding the cool objects like flowers, grass, etc., leads to.....  
1) Condensation    2) fog    3) snowfall    4) rain fall  
పూలు, గడ్డి మొదలైన వాటి చుట్టు పక్కల ఉన్న గాలి నీటి ఆవిరితో సంతృప్తత చెందినప్పుడు జరిగే ప్రక్రియ.....  
1) సాంద్రీకరణము    2) పొగమంచు    3) మంచు    4) వర్షము
- 2) Magnetic quantum value for  $24^{\text{th}}$  electron is .....  
24 వ ఎలక్ట్రానుకు అయస్కాంత క్వాంటం సంఖ్య విలువ .....
- 1) 1    2) -2    3) -1    4) 0
- 3) Concentration of ore does not include.....  
1) Washing    2) Forth flotation    3) Magnetic separation    4) Distillation  
ధాతువును సాంద్రీకరించుటలో కలవని అంశము .....
- 1) నీటితో కడగడం    2) ఫ్లోటేషన్ ప్రక్రియ    3) అయస్కాంత వేర్పాటు    4) స్వేదనం
- 4) The number of isomers possible for Hexane are .....



హిక్సెను కు గరిష్ఠంగా ఉండగల్గిన అణు సాదృశ్యకాలు.....

- 1) 4      2) 2      3) 5      4) 6

### **Biological Sciences**

1) The percentage of oxygen in inhaled air is .....

ఉచ్ఛ్వాసించే వాయువులలో ఆక్సిజన్ యొక్క శాతం.....

- 1) 13 %      2) 16%      3) 21%      4) 18%

2) The alkaloid used as antimalarial drug is .....

- 1) Morphine      2) Reserphine      3) Quinine      4) Scopolamine

మలేలియా నివారణకు వాడే ఆల్కలాయిడ్ .....

- 2) మార్ఫిన్      2) రిసెర్ఫిన్      3) క్వినైన్      4) స్కోపొలమైన్

3) The hormone secreted to suppress the hunger is .....

- 1) Ghrelin      2) Thyroxin      3) Vasopressin      4) Leptin

ఆకలిని అణచివేయు హార్మోను .....

- 1) గ్రీలిన్      2) థైరాక్సిన్      3) వాసోప్రెసిన్      4) లెప్టిన్

### **Social Studies**

1) The Shivaliks in Assam are known as.....

- 1) Cachar      2) Jammu hills      3) Mishmi hills      4) Mozo

శివాలిక్ శ్రేణిని అస్సాంలో ఈ పేరుతో పులుస్తారు.

- 1) కచార్      2) జమ్ము కొండలు      3) మిష్మి కొండలు      4) మిజో

2) As per the census 2011, the density of population in India was.....

2011 జనాభా లెక్క ప్రకారం భారతదేశ జన సాంద్రత.....

- 1) 379      2) 380      3) 382      4) 381

3) During the year 2004-05, the percentage of employment in organized sector was.....

2004-05 సంవత్సరంలో వ్యవస్థీకృత రంగంలో పనిచేస్తున్న కార్మికుల శాతం .....

- 1) 8%      2) 9%      3) 10%      4) 11%

4) The food grains purchased and kept in stock by the Government of India through FCI is called.....

- 1) Food stock      2) wheat grain stock      3) buffer stock      4) millet stock

భారత ప్రభుత్వం భారత ఆహారసంస్థ ద్వారా కొని నిల్వచేసే ఆహార ధాన్యాల నిల్వలను ఈ పేరుతో పిలుస్తారు.

- 1) ఆహార నిల్వలు      2) గోధుమధాన్యాల నిల్వలు      3) బఫర్ నిల్వలు      4) తృణధాన్యాల నిల్వలు

5) The state of atmospheric conditions over an area at a particular time is known as.....

- 1) Temperature      2) winds      3) humidity      4) weather

ఒక ప్రాంతంలో ఒక నిర్దిష్ట సమయంలోని వాతావరణ పరిస్థితులను ఇలా పిలుస్తారు.....

- 1) శీతోష్ణస్థితి      2) గాలులు      3) ఆర్ద్రత      4) వాతావరణం