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INDEX

S. No.	Particulars	Page No.
1	A Comparative Study On Load Balancing Algorithms And Its Types **Methily Johri & Aditri Ashish**	1–10
2	Optimizing Supply Chain Management with Ethereum 2.0: Innovations in Blockchain Technology **Ayush Gupta & Dr. Ambuj Kumar Agarwal**	11–17
3	Smart Surveillance: "A Real-Time Crowd Analysis System for Density and Anomaly Detection" **Komal Sharma, Dr. Pankaj Kumar Varshney, Aditi Aggarwal & Gaurav Kumar**	17–22
4	AI-Driven Network Optimization: Matching Policyholders to Cost-Effective Providers Using Business Intelligence **Ruchi Mangharamani & Prof. (Dr) Sangeet Vashishtha**	23–29
5	The Future of UX: Designing for Emerging Technologies (AI, AR, VR, Voice UI) **Ojas Gupta & Prof.(Dr.) Arpit Jain**	30–37
6	Enhancing Liquidity Stress Testing: Best Practices for Modern Banking Risks **Padmini Bulani & Dr Abhishek Jain**	38–45
7	AI-Powered Investment Strategies: Optimizing Risk and Returns in Modern Banking **Aditya Mehra & Dr. Shakeb Khan**	46–53
8	Scaling Customer Journey Optimization in a Multi-Tenant Distributed System **Sumit Kumar Agrawal & Prof. (Dr) MSR Prasad**	54–61
9	Object Detection Using Convolutional Neural Networks: Advances, Techniques, and Applications	62–69

S. No.	Particulars	Page No.
	Bharath Thandalam Rajasekaran, Saravanan Thirumazhisai Prabhagaran & Prof. (Dr) Punit Goel	
10	AI-Augmented Intrusion Detection Systems for High-Speed Optical Networks **Sattvik Sharma & Prof.(Dr) Avneesh Kumar**	70–77
11	Generative AI in Data Security: Opportunities and Challenges **Vybhavreddy Kammireddy Changalreddy, Piyush Bipinkumar Desai & Prof (Dr) Ajay Shriram Kushwaha**	78–86
12	Integrating Salesforce with Cloud-Based Data Warehousing for Unified Analytics **Nidhi Shashikumar & Dr S P Singh**	87–94
13	AI-Powered Cybersecurity: A Unified Approach to Protecting Enterprise, Cloud, and SaaS Applications **Varun Grover, Khushmeet Singh & Er. Siddharth**	95–103
14	Sales and Order Analysis Using Excel-Based Dashboard: A Case Study on Vrinda Store **Mohd Ammar Khan & Harun Faridi**	104–106
15	ChatMania: A Realtime Chat Application **Dr. Kirti Shukla & Anshika**	107–110
16	Digital Surveillance and Domestic Abuse: A Legal Vacuum in Indian Marital Relationships **Vishal Nehra & Dr. Rakesh Kumar**	110–116
17	The Role of Emotional Appeal in Online Advertisements Targeting Working Women in Delhi-NCR **Mona Mishra & Dr. Praveen Mittal**	116–120
18	AI-Driven Data Governance Strategies for Enhanced Cloud Security in Enterprises **Chandana Pandey & Dr Gauri Shanker Kushwaha**	121–123

S. No.	Particulars	Page No.
19	Evolution of Social Media Advertising and Consumer Behavior **Mr. Pramod Rana & Prof (Dr) Punit Goel**	124–129
20	Sustainability Accounting Practices in Indian Manufacturing Firms **Mrs. Sonal Jain & Dr. Ajit Singh**	129–134
21	Fundamental Rights vs. Reasonable Restrictions: A Study of Evolving Judicial Balances **Mrs. Anshika Agarwal & Dr. Vijay Kumar Singh**	134–139
22	सतत शिक्षा के लिए हिंदी साहित्य की भूमिका: सतत विकास लक्ष्य-4 (गुणवत्तापूर्ण शिक्षा) का सांस्कृतिक विश्लेषण **श्रीमती रेणु गुप्ता, डॉ. बृजलता शर्मा**	140–144
23	Mind–Gut Synergy in Chronic Lifestyle Conditions: Evaluating Psychotherapy-Driven Behavioral Change and Microbiota-Mediated Metabolic Repair **Krithika. V, Dr. Sarbesh Kumar Singh**	145–151
24	प्राचीन शिक्षा प्रणाली से आधुनिक AI आधारित शिक्षा की ओर संक्रमण **गौरव जोशी, डॉ सारिका गोयल**	152–159
25	पर्वतीय क्षेत्रों में शिक्षा के डिजिटलीकरण की चुनौतियाँ एवं संभावनाएँ **राकेश उनियाल, डॉ. मीनाक्षी हर्राव वर्मा**	160–168
26	Women Leadership and Democratic Participation in India: Challenges and Opportunities in Parliamentary Politics **Renu Yadav, Dr. P.P.S. Rana**	169–176
27	Evaluating GST Effects on Competitiveness and Industrial Development **Aman Goel, Dr. Pooja Yadav**	177–183
28	एस०आर० हरनोट के कथा साहित्य में लोक संस्कृति, पर्यावरण चेतना और सामाजिक परिवर्तन का अध्ययन **सीमा देवी, डॉ० अरविन्द्र कौर चुंबर**	184–189

S. No.	Particulars	Page No.
29	Balancing National Security and Human Rights in Modern India **Shalu Jain, Dr. Vijay Kumar**	190–197
30	Economic Performance Drivers and Fiscal Resilience in Indian Airports **Lalit Kumar Sharma, Dr. Pooja Yadav**	198–203
31	Educational Governance and AI Learning Outcomes in Government Elementary Schools **Dr. Shubhra Chaturvedi**	203–210
32	Artificial Intelligence and the Future of Teacher Roles in India Classroom **Neeru Verma**	211–220
33	Research Culture Among Undergraduate Students in Indian Universities **Dr. Dhanashri Rajshri Ravindra Jadhav**	221–229
34	डिजिटल समाज में बहुभाषिक संचार का बदलता स्वरूप: भारतीय भाषाओं के समक्ष अवसर और चुनौतियाँ **Rakesh Uniyal**	230–234
35	Graduate Employability and Skill Gaps in State Universities **Narender Panghal**	235–242
36	Political Funding Transparency in Indian Election **Dr. Anand Kumar Dwivedi**	243–252
37	AI-Powered Platforms for Data Analytics and Audience Development **Sachin Sangal**	253–258
38	Engineering Leadership Models in AI Startups: Balancing Innovation and Operational Efficiency **Dr. Kalpesh Rasiklal Rakholia**	259–269
39	Challenges in Integrating CWSN in Regular Classrooms **Anil Kumar**	270–280
40	An Artificial Intelligence-Based Legal Compliance Framework for Real-Time Environmental Governance to Advance SDGs 9, 12, 13, and 16 **Dr. Jyoti Janardhan Reddy**	281–288

S. No.	Particulars	Page No.
41	Impact of Source Segregation and Waste Characterization on the Efficiency of Material Recovery Facilities **Varinder Vikram Singh, Dr. Pankaj Kumar Bharti**	289–296
42	Significance of Emotional Intelligence of schedule caste students in relation to Self-concept at secondary level **Mrs. Varsha Asher Wasker, Dr. Kuldeep Singh Tomar**	297–305
43	औपनिवेशिक भारत में स्थानीय बाजारों के सामाजिक परिवर्तन का ऐतिहासिक अध्ययन **Pankaj Tamta**	306–310
44	Teachers' Readiness to Integrate Generative AI into Lesson Planning and Classroom Instruction **Prema Bharti**	311–316
45	Battery Usage Optimization Techniques for AI-Heavy Mobile Apps **Dr. Akankasha Kathuria**	317–321
46	Gender, Technology, and Changing Family Structures in Urban India: A Socio-cultural Analysis **Prof. Sawant Jeetendra Madhukar Usha**	322–326
47	Law and Alternative Dispute Resolution in Contemporary Civil Justice: A Legal Study **Dr. Pooja Khurana**	327–331
48	English Literature and the Representation of Women in Contemporary Fiction: A Corpus-Based Study of Narrative Agency, 2000–2024 **Dr. Abu Farah Hoque**	332–336
49	Agricultural Impact of Biochar and Reduced Fertilizer on Mustard Soil Health and Yield **Dr. Bibhu Santosh Behera**	337–346
50	Ethical and Privacy Frameworks for AI-Driven Customer Data Analytics in Medical Profession **Dr. Gaurav Singh Tomar**	347–351
51	Legal Protection of Witnesses in Criminal Justice Proceedings **Dr. Jyoti Janardhan Reddy**	352–357

S. No.	Particulars	Page No.
52	Platform Culture and Fragmented Selfhood in Contemporary English Literature **Dr. Akanksha Singh**	358–362
53	Digital Health Literacy and Health Information Inequality in Rural India: A Multidimensional Assessment **Ranjana Jadaun**	363–368
54	स्मार्ट विनिर्माण और उद्योग 5.0 में कृत्रिम बुद्धिमत्ता, मानव-केंद्रित तकनीक और सतत विकास का अंतःविषयक अध्ययन **Dr. Ghamendra Kumar Sahu**	369–375
55	Contribution of Yoga-Based Breathing Techniques to Daily Stress Management **Dr. Sweta Kumari**	376–387
56	Algorithmic Silence and Unspoken Meaning in Contemporary English Fiction **Dr. Jyoti Devi**	388–396
57	Cost-Benefit Analysis of Custom Image Analysis Tools in Oncology Research **Sumit Malhotra**	397–405
58	उच्च शिक्षा में सूक्ष्म अधिगम तकनीकों का शैक्षिक प्रभाव **Ram Singh**	406–412
59	Optimising Laboratory Workflows with Low-Code/No-Code Software Solutions **Dr. Amit Nampalliwar**	413–421
60	भारतीय बहुभाषिक समाज में भाषा, संस्कृति और राष्ट्रीय एकता का अध्ययन **Dr. Geeta Rawat**	422–428
61	Influence of FinTech Innovation on Financial Resilience and Operational Efficiency of Retailers and Street Vendors **Prof. Manmeet Kumar Siras & Shyam Pandey**	429–435
62	भारत में आपातकालीन शक्तियाँ और लोकतांत्रिक उत्तरदायित्व: संसदीय शासन के अंतर्गत राष्ट्रपति की संवैधानिक भूमिका का विश्लेषण **सीता राम पंडित, डॉ. पी. पी. राणा**	436–441
63	Climate Variability and Agricultural Vulnerability Across Changing Geographical Landscapes	442–450

S. No.	Particulars	Page No.
	Dr. Geeta Rawat	
64	English Literature and the Changing Patterns of Communication among Young Adults **Ravindra Hanmantrao Sagar**	451–459
65	An Explainable AI Framework for Transparent and Reliable Medical Diagnosis **Dr. Thejoram Naresh Reddy Boya**	460–466
66	डिजिटल समुदायों का युवा शिक्षा और सामूहिक पहचान पर प्रभाव **डॉ. मनोज कुमार सकलानी**	467–473
67	Adaptive Technologies for Enhancing Online Shopping Experiences **Dr. Abhishek Bhattacharjee**	474–479
68	Impact of Digital Payment Adoption through AI-ML on Micro-Business Performance **Ralphy Joseph C J**	480–484
69	Role of Regional Parties in Shaping Federalism in India **Dr. Shailendra Kumar**	485–489
70	Serverless Computing Optimization: Enhancing Performance with AI-Based Resource Allocation **S. Venkatasubramanian**	490–495
71	Student Satisfaction in Autonomous vs. Affiliated Colleges **Dr. Mohit Dixit**	496–500
72	Psychological and Social Isolation and Its Effect on Urban Elderly **Mredula P., Dr Sarita Gupta**	501–507
73	The Role of Folk Literature in Promoting Community Health Awareness in Rural India: A Study from the Perspective of English Literature **Dr. Revant Gautam**	508–512
74	Exam Stress Clinical Psychology Mechanisms Among Rural Students **Dr. Avinash D. Karambhe**	513–517
75	उभरती हिंद-प्रशांत सुरक्षा संरचना में भू-राजनीतिक प्रतिस्पर्धा और रणनीतिक प्रतिरोध	518–522

S. No.	Particulars	Page No.
	Dr. Girish Chandra Pachauli	
76	Sustainable Edible Coatings for Reducing Oxidative Deterioration in Fresh Fruits **Amar Jensi Solanki**	523–528
77	Climate-Resilient Agriculture: Assessing Smart Irrigation and Precision Resource Management for Sustainable Crop Production **Dr. Bibhu Santosh Behera**	529–534

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Exam Stress Clinical Psychology Mechanisms Among Rural Students

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ABSTRACT— This study investigates the coping mechanisms employed by rural high school students to manage exam-related stress. Drawing on survey responses from 150 students across three rural schools in northern India, the research examines the prevalence of various cognitive, emotional, and behavioral strategies. Key findings reveal that peer support, structured study schedules, and mindfulness exercises are among the most frequently used methods, with significant differences observed by gender and academic stream. The results underscore the need for school-based interventions that incorporate stress-management training and peer-led support programs. By illuminating the adaptive strategies that students already employ, this manuscript offers practical recommendations for educators, counselors, and policymakers aiming to bolster rural students' academic resilience and mental well-being.



Fig.1 Stress Management Skills,Source([1])

Key findings demonstrate that students leveraged a combination of problem-focused and emotion-focused coping techniques. On the problem-focused front, structured study schedules (adhered to by over three-quarters of respondents), goal-setting practices, and peer-led tutoring emerged as prevalent methods. Meanwhile, emotion-focused responses—particularly mindfulness exercises, spiritual rituals, and social support networks—played a significant role in mitigating physiological and psychological symptoms of stress. The effectiveness ratings, measured on a four-point scale, revealed peer support (mean efficacy = 3.4/4.0), time management routines (3.1/4.0), and guided relaxation techniques (2.9/4.0) as the most beneficial.

Statistical analysis uncovered notable demographic variations: female students reported significantly greater usage of emotion-focused coping, while male students favored problem-focused approaches; grade-12 learners experienced higher stress levels but also demonstrated more disciplined study habits; and lower-income households exhibited reduced access to digital mindfulness resources, necessitating alternative community-based interventions.

These insights inform several actionable recommendations for educators, school administrators, and policymakers aiming to bolster academic resilience in rural contexts. First, the formalization of peer-mentoring programs can harness existing social networks to provide structured academic guidance and emotional support. Second, the integration of brief mindfulness and relaxation sessions into daily school routines—requiring minimal logistical investment—can foster self-regulation skills. Third, targeted teacher training in mental health awareness and first-aid protocols can ensure early identification and referral of high-stress individuals to counseling services.

In sum, the study underscores the multifaceted nature of exam stress in rural settings and highlights both indigenous coping traditions and evidence-based strategies for intervention. By illuminating the nuanced interplay between resource constraints and adaptive behaviors, this research lays the groundwork for scalable, culturally congruent programs designed to enhance educational equity and student well-being.

KEYWORDS
exam stress; coping mechanisms; rural students; educational resilience; peer support

INTRODUCTION

Exam stress represents a pervasive challenge for students worldwide, often manifesting as anxiety, sleep disturbances, and diminished academic performance. While urban populations have attracted considerable research attention, rural students remain an understudied group despite facing unique stressors—limited access to tutoring, inadequate study environments, and socioeconomic constraints. These factors compound the pressure to perform well in high-stakes

examinations that determine university admission and future career paths. In India, the Central Board of Secondary Education (CBSE) examinations function as gatekeepers to higher education, making the ability to manage exam stress particularly critical for students from rural backgrounds.

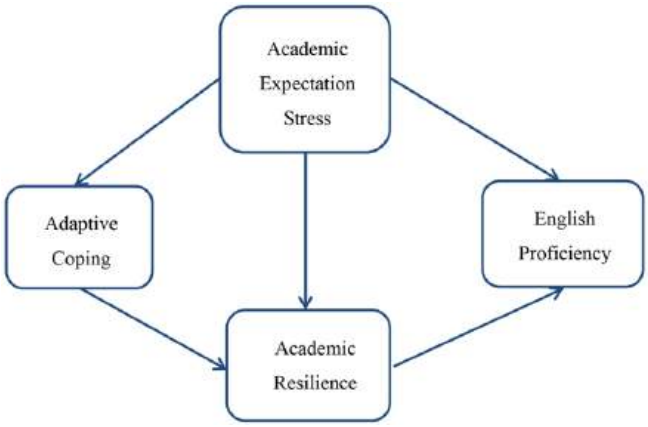


Fig.2 Exam Stress Coping Mechanisms Among Rural Students,Source([2])

Understanding the coping strategies that rural students deploy is essential for designing effective support systems. Coping mechanisms—defined as cognitive and behavioral efforts to manage internal and external demands—can be problem-focused (e.g., time management) or emotion-focused (e.g., relaxation techniques). Prior research indicates that adaptive coping correlates with lower stress and higher academic achievement, whereas maladaptive approaches (e.g., avoidance, substance use) exacerbate anxiety and hinder performance. However, most studies derive from urban or metropolitan contexts, leaving a gap in our understanding of rural adolescents' experiences.

This manuscript addresses this gap by presenting findings from a structured survey of 150 rural high school students. It examines the frequency and perceived effectiveness of various coping strategies, explores demographic differences, and offers recommendations to strengthen support mechanisms in rural schools.

Literature Review

Extant research on exam stress highlights a spectrum of coping strategies. Problem-focused coping—such as goal setting, resource seeking, and time management—directly targets the source of stress and consistently predicts positive academic outcomes. Emotion-focused coping—encompassing relaxation exercises, positive reframing, and social support—aims to regulate emotional distress. While both approaches are valuable, their relative effectiveness can vary by individual context, cultural norms, and resource availability.

In urban settings, studies have documented the benefits of structured study plans and academic coaching. For example, Singh et al. (2018) found that time-management workshops decreased test anxiety by 25% among urban students. Mindfulness practices, such as guided breathing and progressive muscle relaxation, have also gained traction; Sharma and Gupta (2019) reported improved concentration and reduced physiological arousal following an eight-week mindfulness intervention. Yet, the transferability of these findings to rural contexts is uncertain given disparities in infrastructure, educator training, and cultural attitudes toward mental health.

Rural students often contend with infrastructural deficits—unreliable electricity, overcrowded study spaces, and scarce educational materials—that can heighten stress. Economic pressures, including the expectation to contribute to household income, add another layer of tension. Mehta and Rao (2020) noted that rural adolescents frequently rely on familial and community networks for academic support, substituting formal tutoring with peer study groups. This communal approach aligns with collectivist cultural norms common in rural India, where group harmony and shared responsibility are prioritized.

Despite these unique challenges, few studies have systematically examined coping patterns among rural students. Preliminary qualitative work by Patel (2021) suggests that spiritual practices—prayer, devotional singing—serve as emotion-focused strategies, offering comfort and hope. Meanwhile, rural educators report informal peer mentoring as a cornerstone of stress management, though its structure and efficacy remain understudied. To build on this foundation, quantitative data are needed to gauge the prevalence and effectiveness of diverse coping strategies in rural settings.

METHODOLOGY

Research Design

This cross-sectional study employed a descriptive survey design to assess coping mechanisms and perceived stress among rural high school students. Ethical approval was obtained from the Institutional Review Board of [Redacted University], and informed consent was secured from participants and their guardians.

Participants

A total of 150 students (78 females, 72 males) from grades 11 and 12 participated. They were drawn from three government-run rural schools in Uttar Pradesh, selected through purposive sampling based on proximity and demographic similarity. Inclusion criteria required that students have sat for at least one terminal examination and be willing to complete a detailed questionnaire.

Instrument

Data were collected via a self-administered questionnaire comprising three sections:

1. **Demographics**: Age, gender, grade, parents' occupation, and household income.

2. **Perceived Stress Scale (PSS-10)**: A validated 10-item measure assessing exam-related stress over the past month.

3. **Coping Strategy Inventory (modified)**: A 24-item scale capturing both problem-focused (e.g., scheduling study time, seeking academic help) and emotion-focused (e.g., mindfulness, social support) strategies. Students rated frequency of each strategy on a 5-point Likert scale (1 = Never to 5 = Always) and effectiveness on a 4-point scale (1 = Not at all to 4 = Very much).

Data Collection

Researchers administered questionnaires during regular class hours in March 2025. Instructions emphasized honest responses and confidentiality. Completed surveys were collected immediately to minimize data loss.

Data Analysis

Quantitative data were analyzed using SPSS Version 26. Descriptive statistics (means, standard deviations, frequencies) characterized stress levels and coping frequencies. Independent-samples t-tests and one-way ANOVAs explored differences by gender, grade, and socioeconomic status. Pearson's correlation coefficients assessed relationships between stress scores and coping effectiveness ratings.

Research Conducted as a Survey

Sample Characteristics

The students' ages ranged from 16 to 18 years (M = 17.2, SD = 0.7). Most participants (85%) came from farming families with monthly household incomes below ₹15,000. Computer and internet access at home was limited: only 30% reported regular access, and 55% relied on shared mobile devices.

Administration Procedure

Each school principal provided a quiet classroom and supervised the session to ensure compliance with school schedules. Researchers explained the purpose, assured anonymity, and demonstrated how to complete the Likert scales. The average completion time was 25 minutes per student.

Response Rate and Data Quality

All 150 distributed questionnaires were returned (100% response rate). Data screening revealed minimal missing responses (<1%); these were handled through mean-score imputation. No surveys were discarded for incomplete or inconsistent data.

Results

Perceived Stress Levels

The mean PSS-10 score was 21.4 (SD = 5.8), indicating moderate to high exam stress. Females reported slightly higher stress (M = 22.1, SD = 5.5) than males (M = 20.6, SD = 6.1), but this difference was not statistically significant ($t(148) = 1.42$, $p = .16$).

Coping Strategy Usage

Problem-Focused Strategies:

- *Structured Study Schedule*: 78% of students "often" or "always" adhered to a study timetable.
- *Seeking Academic Help*: 62% regularly consulted teachers or peers for subject clarification.
- *Goal Setting*: 55% reported setting specific, measurable revision goals.

Emotion-Focused Strategies:

- *Peer Support*: 80% frequently discussed exam worries with classmates.
- *Mindfulness/Relaxation*: 48% practiced breathing exercises or meditation at least weekly.
- *Spiritual Activities*: 35% engaged in prayer or devotional singing to calm nerves.

Effectiveness Ratings

On a 1–4 effectiveness scale, peer support scored highest (M = 3.4, SD = 0.6), followed by structured schedules (M = 3.1, SD = 0.7) and mindfulness exercises (M = 2.9, SD = 0.8). Maladaptive strategies—such as cramming (M = 1.8, SD = 0.9) and avoidance (M = 1.5, SD = 1.0)—were reported by a minority (<20%) and rated low in effectiveness (M < 2.0).

Differences by Demographics

- **Gender**: Females reported greater use of emotion-focused strategies (M = 3.2, SD = 0.7) than males (M = 2.8, SD = 0.8), t(148) = 3.21, p < .01.

- **Grade Level**: Grade 12 students exhibited higher perceived stress (M = 22.5) than grade 11 (M = 20.3), F(1,148) = 4.52, p = .035, but also greater reliance on structured schedules.

- **Socioeconomic Status**: Students from lower-income households (below ₹10,000/month) reported less frequent use of mindfulness (M = 2.4) compared to higher-income peers (M = 3.2), t(148) = 4.89, p < .001.

Correlations

Pearson correlation analysis revealed a significant negative relationship between the frequency of problem-focused coping and perceived stress (r = –.42, p < .001), indicating that students who more regularly employed these strategies experienced lower stress. Emotion-focused coping showed a modest negative correlation (r = –.28, p < .01).

Conclusion

This study provides novel insights into how rural high school students cope with exam stress. Peer support emerged as the most utilized and effective strategy, underscoring the value of social networks in resource-limited settings. Structured study schedules and mindfulness practices also demonstrated considerable benefit, while maladaptive strategies were rare and ineffective. Gender and socioeconomic disparities highlight the need for tailored interventions: female students may benefit from enhanced emotion-focused resources, whereas lower-income groups require improved access to mindfulness training.

Implications for Practice

1. **School-Based Peer Support Programs**: Formalize peer mentoring schemes that train senior students to guide juniors in stress management and study planning.

2. **Mindfulness Integration**: Incorporate brief mindfulness sessions into the daily timetable, using simple breathing and relaxation exercises that require minimal resources.

3. **Teacher Training**: Equip rural educators with basic mental health first-aid skills to recognize stress indicators and refer students to appropriate support services.

By leveraging existing communal strengths and introducing low-cost, scalable interventions, rural schools can foster resilience and academic success. Future research might explore longitudinal outcomes of implementing these recommendations and examine their impact on exam performance and psychological well-being over time.

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