

**INTERNATIONAL RESEARCH JOURNAL OF  
HUMANITIES AND INTERDISCIPLINARY STUDIES**  
( Peer-reviewed, Refereed, Indexed & Open Access Journal )

DOI : 03.2021-11278686      ISSN : 2582-8568      IMPACT FACTOR : 5.71 (SJIF 2021)

## Impact of Online Exams on Students' [with special reference to Higher Education- Navi Mumbai City]

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**DOI No. 03.2021-11278686 DOI Link::**<https://doi-ds.org/doilink/08.2021-26877511/IRJHISICPC210821>

### **Abstract:**

*The online examination system is an easy and simple way to conduct exams online compared to offline exams. The online exams can be conducted with the help of internet, intranet, or local network environment which makes each and every work quiet smooth. Anyone can give such exams through software and can also collect the responses quickly. The problems which are faced during online examination are poor network connection which causes delay in work like difficult in making results and keeping records. But in the exams sometimes teachers cannot focus on each and every student so students can neglect the rules by any type of malpractices. This is a descriptive research and sample size will be 500. Survey will be done through Questionnaire method. Online exams consume less time, money and material also it is user friendly for people. We just require a device and network connection to run the exams properly. Students who live far from their schools or colleges found easy to give exams online instead of wasting time and cost in travelling. But some students face difficulty in adapting the new technology and they don't get such resources to take education and to give exams online with a device. Even the students get such resources, some of them use it in the wrong manner. Online exams have more scope to gain more marks in exams for students. So our research will make it more clear that what is more preferable online or offline exams by the students and teachers both. This study describes the online education system and its effect on student's academic performance, attitude and satisfaction level.*

**Keywords:** online exams, student's performance, malpractices.

### **Introduction:**

Our advanced technology gave rise to online education system specially during this COVID-19 pandemic. Students attend online lectures as well as give online exams and viva. In 2020, this online examination system was successfully supported in several universities all over the world. It is very simple platform to give exams anywhere with internet. Students get some online exam forms

which consists of multiple-choice questions from the syllabus and. This act made everyone's work simple and the idea of studying digitally was predicted in 2050, but due to situations we are getting online education facility in 2020 only. But this type of exams has lots of limitations that many students get 100% results without studying and they take help of internet for answering the questions, from this type of malpractice some students lose their confidence because they work hard and get disappointed for not getting the deserving outputs. It increases the level of anxiety and demotivation among them. Online exams made an impact on students in both negative and positive way. Though online exams are alternative for us in this Covid-19 pandemic but now students prefer online exams because it is easy for them to score high in their exams without even studying much. Our research based on the impact of online examination system on students might show what type of examination system is good as per students' point of view and what they prefer.

#### **Advantages of Online Examination System:**

##### **1. Reduces costs and time:**

As there is no use of paper, ink, and transportation the cost of all this is saved which ultimately results in reducing the overall cost. As the students have to sit at their home and don't have to travel to colleges to appear for the exams helps in reducing the time.

##### **2. Education continues:**

As the corona virus has stopped students from going to colleges, the online method has kept the teaching and learning process still alive nothing has been on halt.

##### **3. Reduce manual errors:**

Due to the new advance technology been used the manual errors are been reduced as all the data processing of exams and the marks are done through software.

##### **4. Immediate results:**

The students use different software for giving exams, after which the results are been noted directly which helps in keeping the track of the marks scored by the students.

##### **5. Flexibility:**

The online process has brought ease in the work for both students and the teachers. They can give and take the exams by sitting at their home without so many official formalities.

#### **Disadvantages of online examination:**

##### **1. Connectivity issue:**

As the name suggests, the exams are online so the sources for conducting a proper online exam, it needs a good internet connection. Due to some network issues in some rural and urban areas, the connection is not constant in some places. Hence, if the connectivity loses and if there is an issue with the devices through which online examination is conducted, then there is a high

probability or high chances of getting the entire response failure if the backup doesn't exist and leads to frustration.

## 2. Comfortability:

It's the first time that the school and college level examination in an online Form. It is not possible for everyone to adjust themselves in the online examination environment either physically, mentally, or financially. Some of the students don't have access to large screens to better view the lengthy questions. And some of them lack the process of execution and someone who is not financially strong and afford the costly devices for the online examination.

## 3. Cheating and malpractices:

Online exams can lead to excessive cheating. Although the exams are taken based on trust in the students, some of them succeed in adopting malpractices like cheating and that reduces the competition between the students for the one who is deserving and who is not, by getting equal or high grades which leads to the loss of confidence among the students.

## Research Methodology:

1. **University of Study:** The university of study shall be Navi Mumbai only.
2. **Sample Design:**
  - a) Our survey will focus on thinking of Navi Mumbai's public.
  - b) The current population of **Mumbai** is **20,185,000 (2021)**.
  - c) The current population of **Navi Mumbai** is **1,119,477 (2021)**.
  - d) The **literacy rate** in Navi Mumbai is **911,542** that is **91.57%**.
3. **Research Design:** Descriptive type of Research Design.
4. **Collection of Data:** The collection of data is divided into two parts that is primary as well as secondary data.
  - a) **Primary Data:** In primary data the information is collected through survey.
  - b) **Secondary Data:** The secondary data is collected through books, internet, articles, reports, newspapers etc.
5. **Sample size:** 500 students from Navi Mumbai City.

## Hypothesis:

$H_1$  = Online exams are associated with the academic performance of the students.

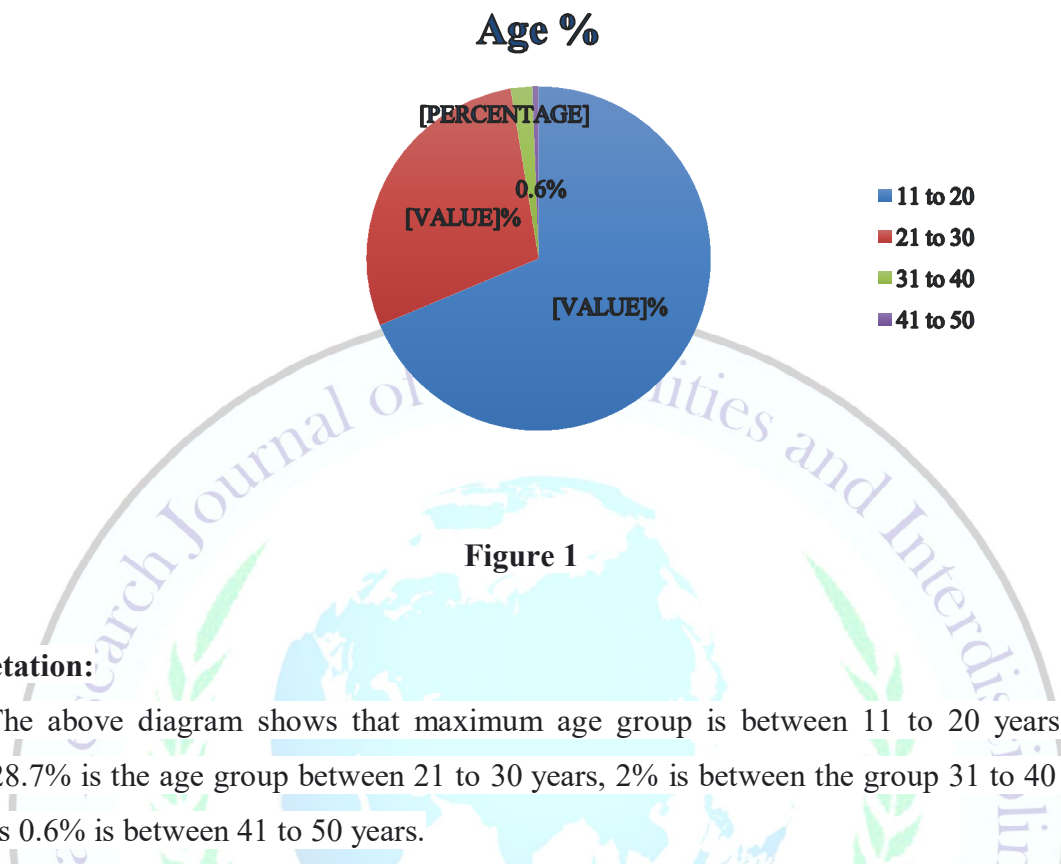
### Objectives:

- To know the problems faced by students due to online examination.
- To understand the effect of online exams on the Student's learning.
- To know the student's satisfaction towards change in exam pattern.
- To find out the impact of online examination on student's career.
- To simplify the seriousness of online exams during this pandemic.

### Review of Literature:

1. Kotwal<sup>1</sup>, Bhadke<sup>2</sup>, Gunjal<sup>3</sup>, Biswas<sup>4</sup> (IRJET-2016) explained about Online Examination System is a software solution, which allows any industry or institute to arrange, conduct and manage examinations via an online environment. It can be done through the Internet/Intranet and/ Local Area Network environments. Some of the problems faced during manual examination systems are the delays occurred in result processing, filing poses a problem, filtering of records is difficult. The chance of loss of records is high also record searching is difficult. Maintenance of the system is also very difficult and takes lot of time and effort. Online examination is one of the crucial parts for online education system. It is efficient, fast enough and reduces the large amount of material resource. An examination system is developed based on the web. This paper describes the principle of the system, presents the main functions of the system, analyzes the auto-generating test paper algorithm, and discusses the security of the system.<sup>1</sup>
2. Daniel Woldeabl and Thomas Brothen<sup>2</sup>, (2019) titled as 21st Century Assessment: Online Proctoring, Test Anxiety, and Student Performance explained about online learning. Conventional higher education institutions are also gradually embracing it across the United States. As online learning surfaces as the new model of contemporary education both in the United States and worldwide, ensuring exam integrity in the online environment is becoming a major challenge to many higher education institutions. To meet this challenge, many of these institutions are outsourcing the examination aspect of their education to online proctoring service providers. The study, which was conducted on a total of 631 students, assesses the effect of online proctored exams on student test anxiety and exam performance. This study shows that high trait test anxiety results in lower exam scores and that this is especially true for those students with high text anxiety taking exams in an online proctored setting.<sup>2</sup>

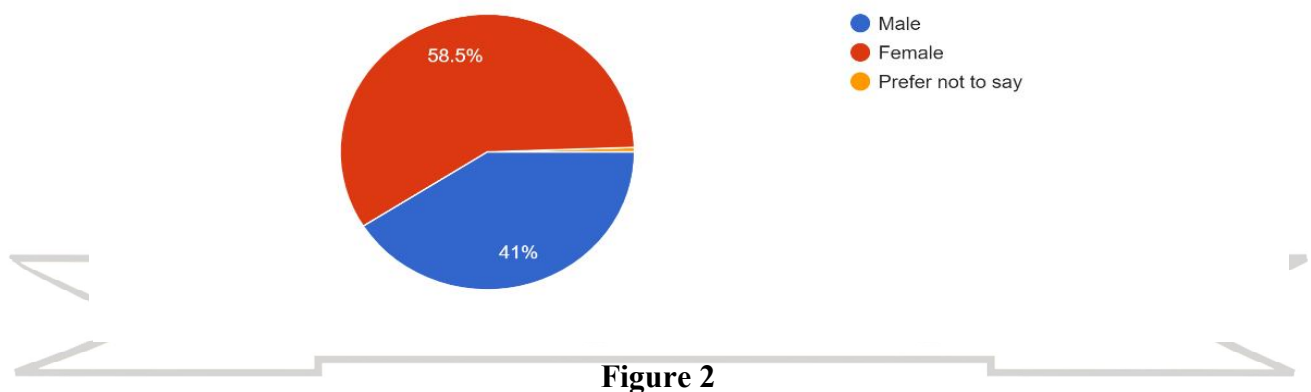
## Data Collection and Analysis



### Interpretation:

The above diagram shows that maximum age group is between 11 to 20 years which is 68.7%. 28.7% is the age group between 21 to 30 years, 2% is between the group 31 to 40 years and the rest is 0.6% is between 41 to 50 years.

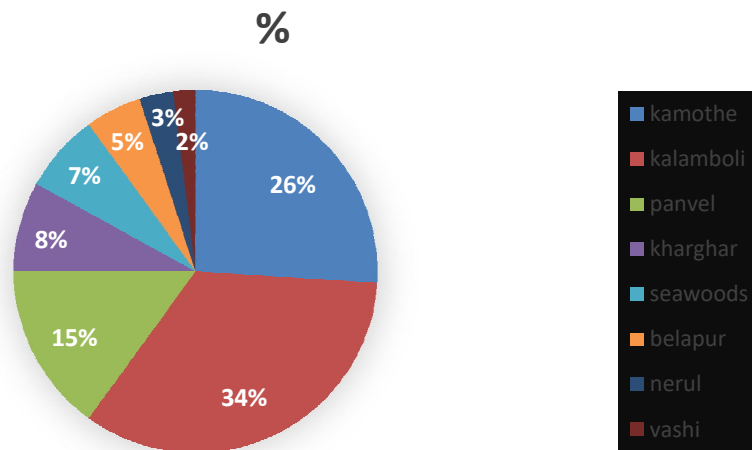
Gender  
376 responses



### Interpretation:

According to the above fig. 2 there are 58.5% female respondents and 41% male respondents.

**Area**

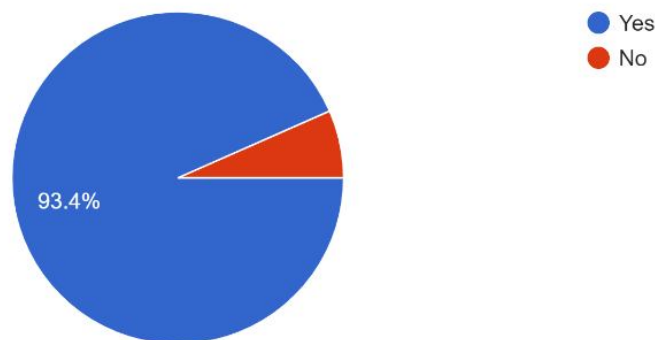


**Figure 3**

**Interpretation:**

According to this figure, all the respondents are from Navi Mumbai area, maximum are from Kalamboli than Kamothe, Panvel, Kharghar, Seawoods, Belapur, Nerul and minimum are from Vashi.

Have you ever appeared for online exams?  
 500 responses



**Figure 4**

**Interpretation:**

According to the above figure, 93.4% respondents have appeared for online exams and 6.6% respondents haven't appeared for online exams.

Do you follow all the rules and regulations during online exams made by your school/college?  
500 responses

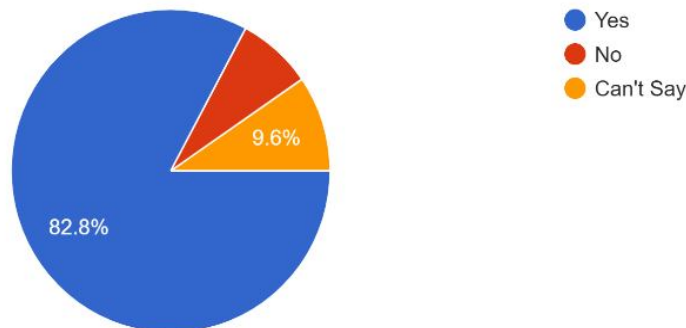


Figure 5

**Interpretation:**

In the above figure, there are 82.8% respondents who follow all the rules and regulations during online exams and 7.6% respondents didn't follow the rules and regulations and rest 9.6% can't say about it.

Do you get fair results through online exams?  
500 responses

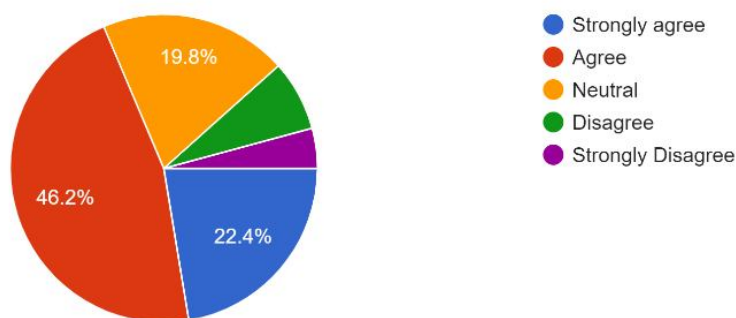


Figure 6

**Interpretation:**

According to the above figure, 22.4% respondents strongly agree that they get fair results through online exams, 46.2% respondents agree that they get fair results through online exams, 19.8% respondents are not sure or neutral that they get fair results through online exams, 7.4% respondents disagree that they get fair results through online exams, and 4.2% respondents strongly disagree that they get fair results through online exams.

What type of technical issues do you face during online exams?  
500 responses

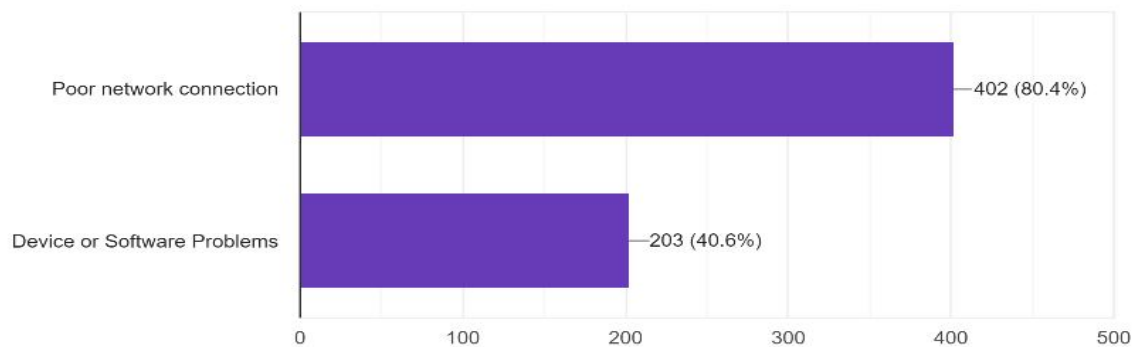


Figure 7

**Interpretation:**

According to the above figure, 80.4% respondents face poor network connection and 40.6% respondents face device or software problems during online exams.

Do you think online exams reduces competition among students?  
500 responses

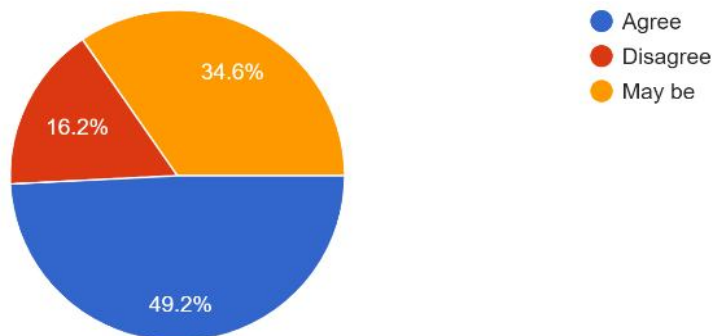


Figure 8

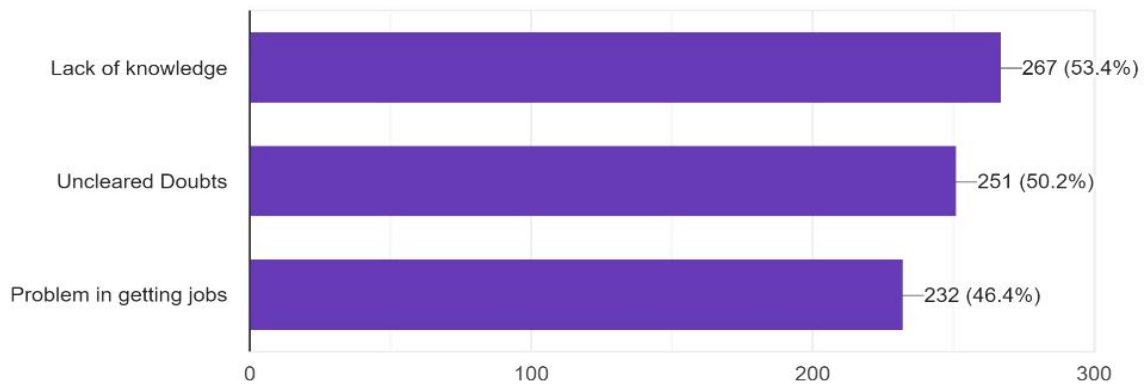
**Interpretation:**

In this above figure, 49.2% respondents think that online exams reduces competition among students, 16.2% respondents think that online exams doesn't reduces competition among students and 34.6% respondents are not sure about it.



What type of effects you feel online exams will have on your career?

500 responses



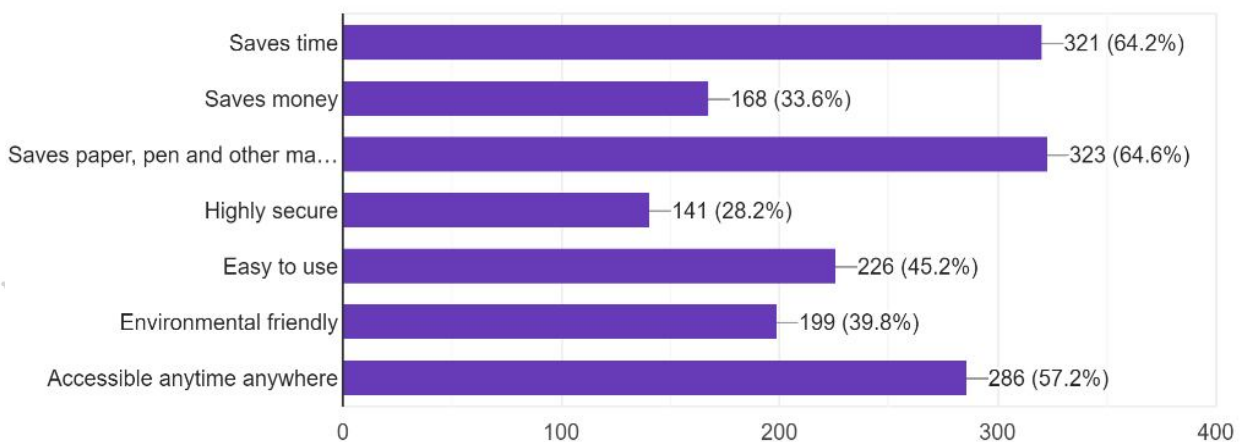
**Figure 9**

**Interpretation:**

According to the above figure, 53.4% respondents have lack of knowledge during online exams, 50.2% respondents have unclear doubts, 46.4% respondents face problems in getting jobs.

According to you, what are the advantages of online exams?

500 responses



**Figure 10**

**Interpretation:**

According to the above figure, 64.2% respondents feel that online exams save their time, 33.6% respondents feel that it saves their money, 64.6% respondents feel that it saves their materials, 28.2% respondents feel it is highly secure, 45.2% respondents state that it is easy to use,

39.8% respondents states that it is environment friendly and 57.2% respondent states that it is accessible anywhere anytime these are the advantages of online exams.

What are the problems you face in Online exams?

500 responses

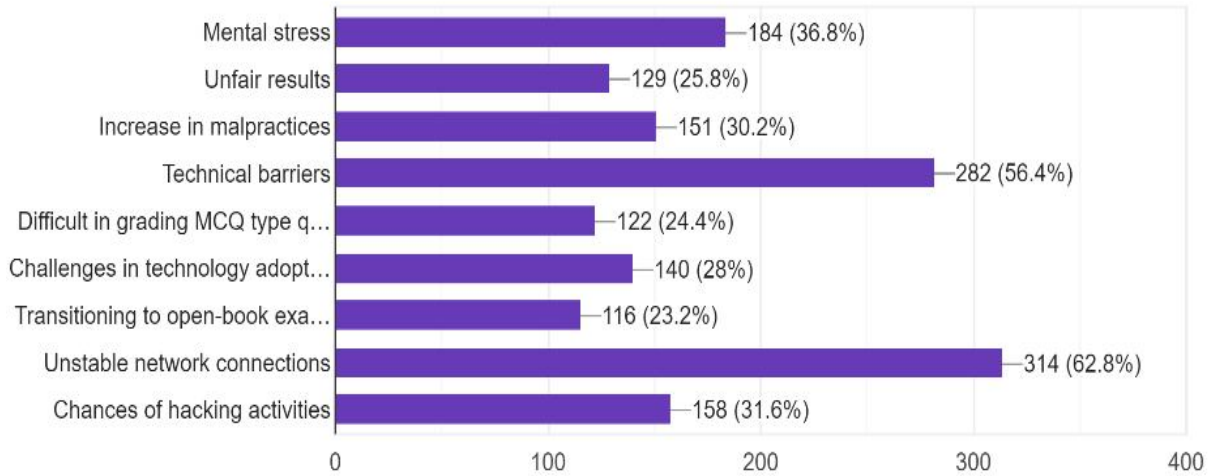


Figure 11

Interpretation:

In this above figure, 36.8% people face mental stress, 25.8% people feels that it gives unfair results, 30.2% people feels that it increases malpractices, 56.4% people face technical issues, 24.4% people feels difficult in grading MCQ type questions, 28% people face challenges in technology adoption, 23.2% people feels it gave a rise in transitioning to open-book exams, 62.8% people face network connection issues, and 31.6% people think that it increases the chances of hacking, these are the problems faced by respondents.

Do you feel that device I'd tracking features should be improved for students in online exams to decrease the malpractices?

500 responses

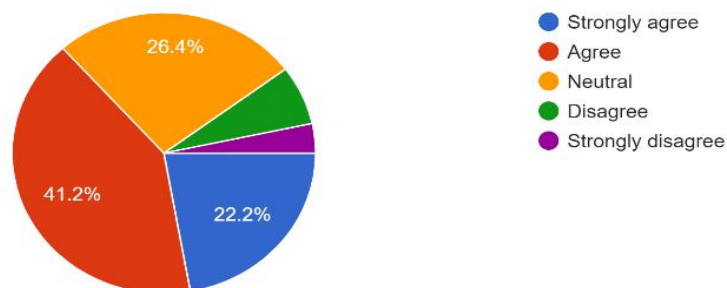
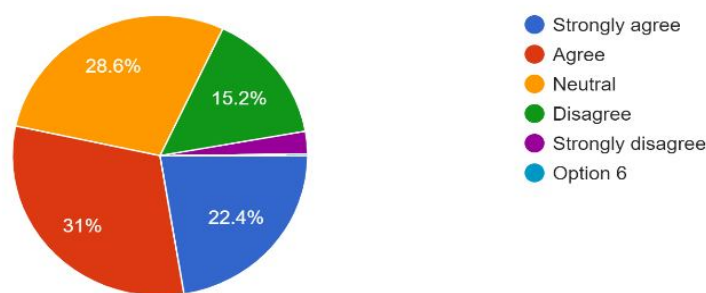


Figure 12

**Interpretation:**

According to the above figure, 22.2% of the respondents strongly agree that ID tracking features must be improved for students in online exams to decrease the malpractices, 41.2% of the respondents agree with the same, 26.4% of the respondents can't say or are neutral about it, 6.8% of the respondents disagree with the fact of ID tracking features must be improved, 3.4% of the respondents strongly disagree with the statement.

Does online exams have any negative effect on your learning skills or your academic performance?  
500 responses

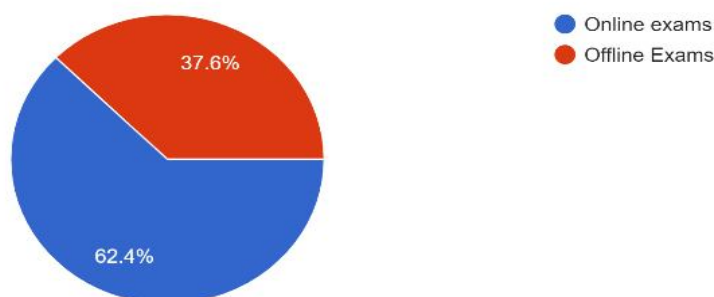


**Figure 13**

**Interpretation:**

According to the above diagram, 22.4% respondent states that they strongly agree that it has negative effects on their learning skills and academic performance, 31% respondents agree with it, 28.6% respondents are not sure or neutral with it, 15.2% respondents states that they disagree with it, and 2.6% respondent states that they are strongly disagree about the given statement.

What type of exams do you prefer?  
500 responses



**Figure 14**

**Interpretation:**

In this figure, maximum 62.4% respondents prefer online exams whereas, 37.6% respondents prefer offline exams.

According to you, government should continue this online examination system till this COVID-19 pandemic ends?

500 responses

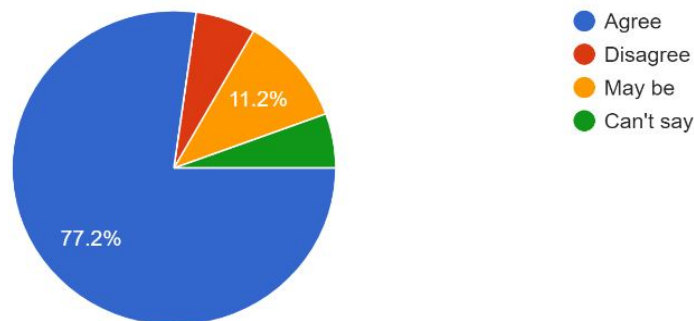


Figure 15

#### Interpretation:

According to the above figure, 77.2% respondents agree that the government should continue this online examination system till this COVID-19 pandemic ends, 6% respondents disagree with it, 11.2% respondents feel that may be the government should continue this online examination system till this COVID-19 pandemic ends, 5.6% respondents can't say about it.

#### Findings:

1. It has been found that about 93.4% people have appeared for online exams.
2. About 82.8% people follow all the rules and regulations during online exams.
3. 68.6% people get fair results through online exams.
4. Only 49.2% people feel that online exams reduces competition among students.
5. 63.4% people think that the I'd tracking features should be improved in online exams.
6. Only 18% people says that online exams doesn't affect their skills.
7. We found that 62.4% people prefer to give online exams.
8. According to 77.2% respondents, the government should continue this online examination system till COVID-19 pandemic ends.

#### Suggestions:

1. In online examination system I'd tracking features should be improved
2. To make the exams more impactful on students, teachers can take regular short exams rather than irregular long exams.
3. Teachers can make both objective and subjective type of questions to examine the students and to know about their conceptual knowledge.

4. If this system provides a chat bot which can make a direct communication between the students and examiner, also it lessens the burden of examiners to answer all the queries.

#### **Limitations:**

- Survey is limited to Navi Mumbai city only.
- This survey lacks personal interaction with the respondents.

#### **Conclusion:**

As per the study on impact of online examination system on students in Navi Mumbai area is not good from their career aspects. Maximum number of people have given such exams and they think that this system is acceptable as per the current situation but many people disagree from such type of exams. From online exams, students can learn only theoretical part but it avoids the practical study of their syllabus. Students feels lazy and demotivated. So, this study shows the importance and benefits of offline lectures, programs, workshops, seminars, coaching as well as exams for the future of our nation.

#### **Benefits to the Society:**

This study helps society to understand the current scenario of online education system and its impact on various aspects of students. This research will benefit to society to know the problems faced by students due to online examination, to understand the effect of online exams on the Student's learning, to know the student's satisfaction towards change in exam pattern, to find out the impact of online examination on student's career, to simplify the seriousness of online exams during this pandemic and other researchers will also understand the association between online examinations and the academic performance of undergraduate and post graduate students.

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