

## **Impact of Mobile Phone Uses on Urban Life: A Study at Tamluk Municipality of West Bengal, India**

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### **ABSTRACT**

*Mobile phone is one of the important and essential electronic devices of twenty first century. Our modern life cannot imagine without this device which influences the daily social, economic and cultural life. The impact of this electronic gadget on society is in both positively and negatively. Main objectives of this paper are to highlight the types of mobile phone uses among the various categories of peoples and its impacts. Information from municipality published sources, latest census of India data and public opinion data have considered here for present analysis. The entire analysis is based on both statistical inference and cartographic techniques. Overuse of smart phone is adversely affecting the urban social-cultural life but the proper utilization makes easier of the daily life of the society. So, purposeful management is essential regarding the proper utilization of smart phone which is helpful for stable human society.*

**Keywords:** Mobile phone, users, urban life, impact, management.

### **INTRODUCTION:**

In the era of modern communication the daily life of the people is too much mobile phone oriented. Mobile phone is one of the important electronic media in the modern time. Mobile phone and smart phone produces positive and negative impact on the society (Nath & Mukherjee, 2015). Mobile phone is one of the important media for communication and sharing in the developing countries (James, 2016). Key pad, touch screen and smart phone are the different types of mobile phone and among these smart phones are the dominant devices in the process of uses. It has an impact on communication, education, access to information, occupation, social relations, human health and psychology, human behaviour and social relations, etc. and this important device is highly affect the youth and teenagers. Mainly the youth and teenagers uses the smart phone for sharing the information, access the study materials, entertaining video, transfer of money, chatting, face book, WhatsApp, twitter and Instagram, etc. Mobile addiction is the common for new generation and smart phone or mobile phone impact the

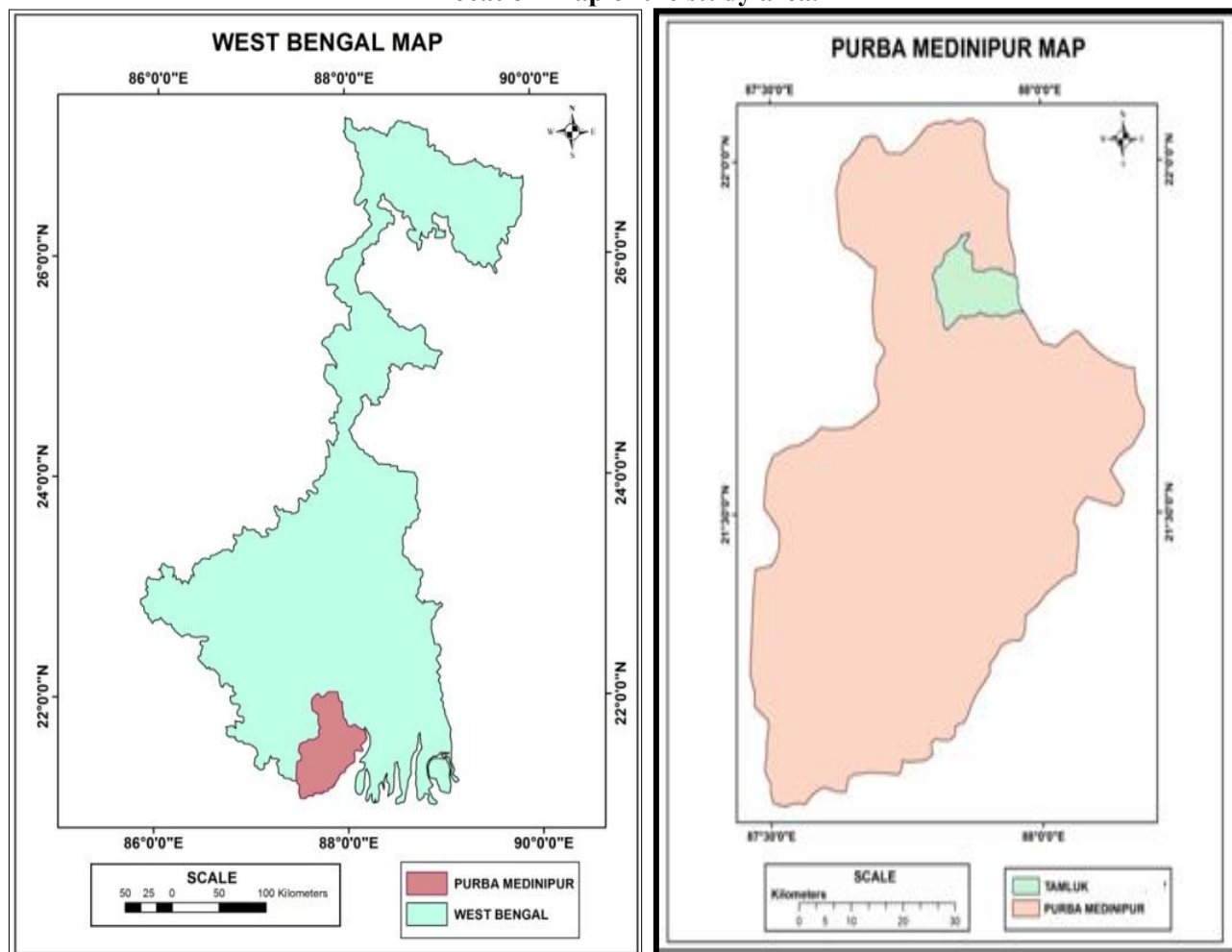
social and individual life of new generation students (Ozkan & Solmaz, 2015). Both mobile and smart phone has been impacts the college and university students and teenagers. Mobile phone and smart phone uses produces the impact on social relationship among the youth and teenagers (Rajeev & Jobial, 2015). Now the social relationship is another type and the emotion, bonding, attitude is the totally different in the society by the uses of smart phone. Social media is helpful for improving for the knowledge skills among the students (Siddiqui & Singh, 2016). By the uses of internet in the smart phone students access the scientific information

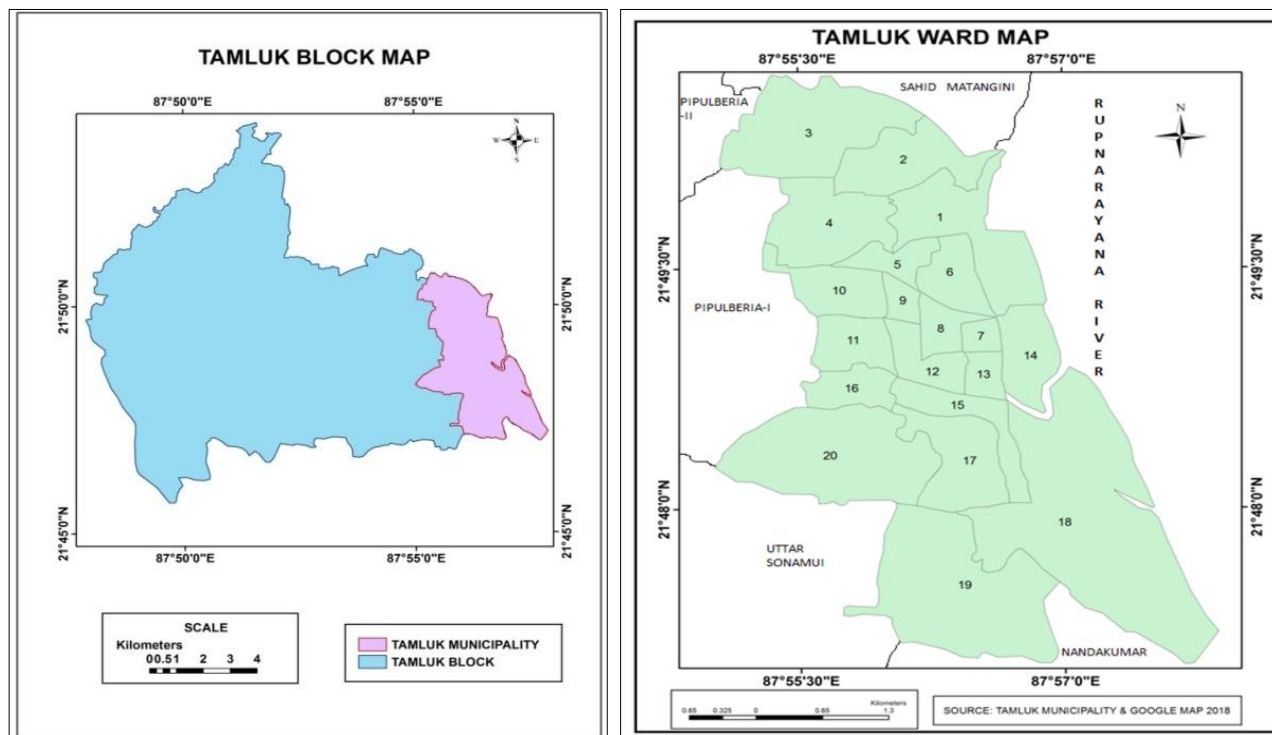
and mathematical problems or any kind of academic information and problems in their smart phone in any time when they away from their computers. Social media is very significant for the everyday communication, interpersonal communication among the students (Veveve, 2015). Smart phone characters like a mini computer, so anybody browse email, face book, video call in the smart phone and communicate to anybody in any time in any place of the world. Peoples use different kind of brand and uses different kind of connections. Different apps also use in the smart phone for different purpose like paytem, bhim apps etc. Overuse of smart phone is responsible for different types of health related problems and this device emitted radiation which is very harmful for infants. It is also responsible for accidental causes of school going children to a working person who has no proper idea about the uses of the device.

### Study Area:

Tamluk municipality comes under the Tamluk community development block of Purba Medinipur district of West Bengal in India. The said urban area consist twenty municipal wards and the municipality formed during British India. Latitudinal and longitudinal extension of the municipality is  $22^{\circ} 14' 40''$  N to  $22^{\circ} 20' 0''$  N and  $87^{\circ} 54' 10''$  E to  $87^{\circ} 57' 15''$  E. Surrounding area of this urban area comes under the rural area and the recent municipal wards reveals the rural fringe like characteristics. River Rupnarayan flows along the eastern side of this municipality and the geographical area formed due the alluvial deposition of river Rupnarayan. Total geographical area of this area is 17.86 sq. Km. Tamluk municipality is one of the older urban area in south Bengal in India and the area socially , culturally better than the others towns of the Purba Medinipur district. The said urban area is the familliar for the contribution in the struggle of independence of our country.

Location Map of the study area.





#### **Geographical Location of Tamluk Municipality**

North- West : Pipulberia- 2 Gram Panchayat  
 Middle-West : Pipulberia -1 Gram Panchayat  
 East : Rupnarayana River  
 South : Nanda Kumar CD Block  
 South-West : Uttar Somamui Gram Panchayat

#### **Lat-long of the Area**

Latitude: 22°14'40" North to 22°20' North  
 Longitude: 87°54'10" East to 87°57'15" East

**Source:** NATMO, Kolkata and Office of the Tamluk municipality, 2018.

#### **Objectives:**

The objectives of this work are as follows;

1. To analyze the pattern of mobile phone uses of various categories of people in the area.
2. To highlight the priorities and purposes of smart phone uses among the peoples.
3. To find out the impact of smart phone uses on various aspects of the society.

#### **DATABASE AND METHODOLOGY:**

The work is based on the primary opinion collected from the municipality are through questionnaire survey and secondary data from Census of India, 2011, municipality published sources and Purba Medinipur district statistical handbook. The total sample of hundred is collected from twenty wards (five samples from each ward) of the municipality. Stratified sampling methods have been considered for selecting the sample category on occupational pattern of the people. Among these samples students are 41%, service person 29%, businessman 13%, housewife 9% and others 8%. The analysis is based on the perceptions of the respondents. Both qualitative and quantitative techniques applied for proper analysis of the conditions and ArcGIS software is used for visual presentation.

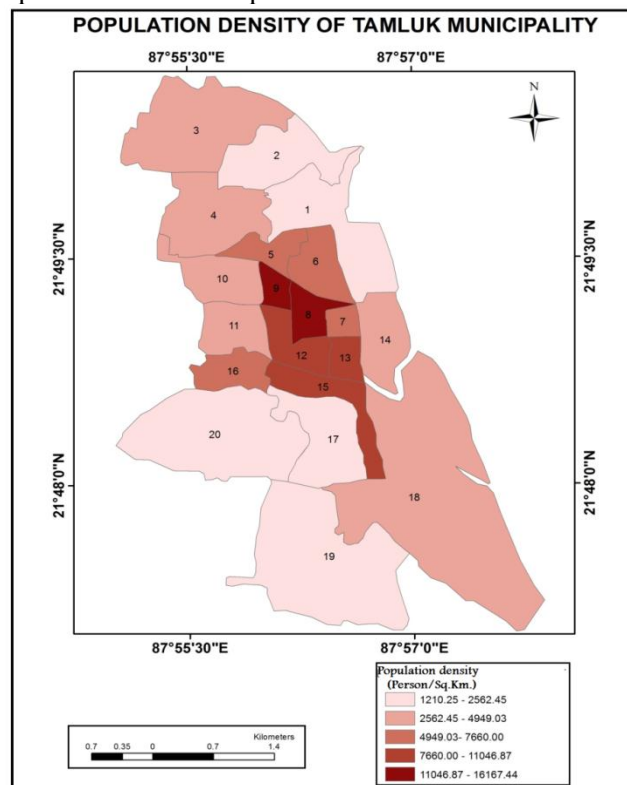
## RESULT AND DISCUSSION:

**Table – 1: Population, area, density and literacy**

Ward No.	Total Population	Male population	Female population	Area in sq. Km.	Population Density (Person / Sq. km)	Literate population (%)	Illiterate population (%)
1	3344	1784	1560	1.305	2562.45	77.54	22.46
2	2364	1263	1101	1.1	2149.09	74.41	25.59
3	3184	1580	1604	0.709	4490.83	80.75	19.25
4	4056	2125	1931	1.08	3755.56	75.94	24.06
5	2974	1483	1491	0.39	7625.64	77.94	22.06
6	2681	1309	1372	0.35	7660.00	91.05	8.95
7	1594	814	780	0.22	7245.45	89.52	10.48
8	2666	1342	1324	0.2	13330.00	87.13	12.87
9	3476	1789	1687	0.215	16167.44	77.99	22.01
10	2025	1036	989	0.626	3234.82	82.27	17.73
11	2816	1425	1391	0.569	4949.03	82.56	17.44
12	4242	2087	2155	0.384	11046.88	83.57	16.43
13	2264	1163	1101	0.212	10679.25	90.42	9.58
14	3721	1889	1831	1.22	3050.00	73.93	26.07
15	3541	1767	1782	0.367	9648.50	86.28	13.72
16	3109	1572	1537	0.511	6084.15	80.64	19.36
17	4303	2194	2109	2.077	2071.74	88.08	11.92
18	4986	2575	2411	1.534	3250.33	78.88	21.12
19	4418	2286	2132	1.866	2367.63	79.67	20.33
20	3540	1808	1732	2.925	1210.26	83.47	16.53
<b>Total</b>	<b>65312</b>	<b>33291</b>	<b>32020</b>	<b>17.86</b>	<b>3656.89</b>	<b>81.65</b>	<b>18.35</b>

**Source:** Census of India, 2011.

Demographically the study area is highly populated in nature and the total population of the geographical area is 65312 and population density is 3657 person / sq. km in 2011. Literacy rate is also good and the literacy rate is 81.65 percent and illiteracy rate is 18.35 percent. This data reveals that number of mobile phone and smart users is high in all categories of people which are an important essential device for their daily life.



**Table – 2: Age group wise distribution of phone users**

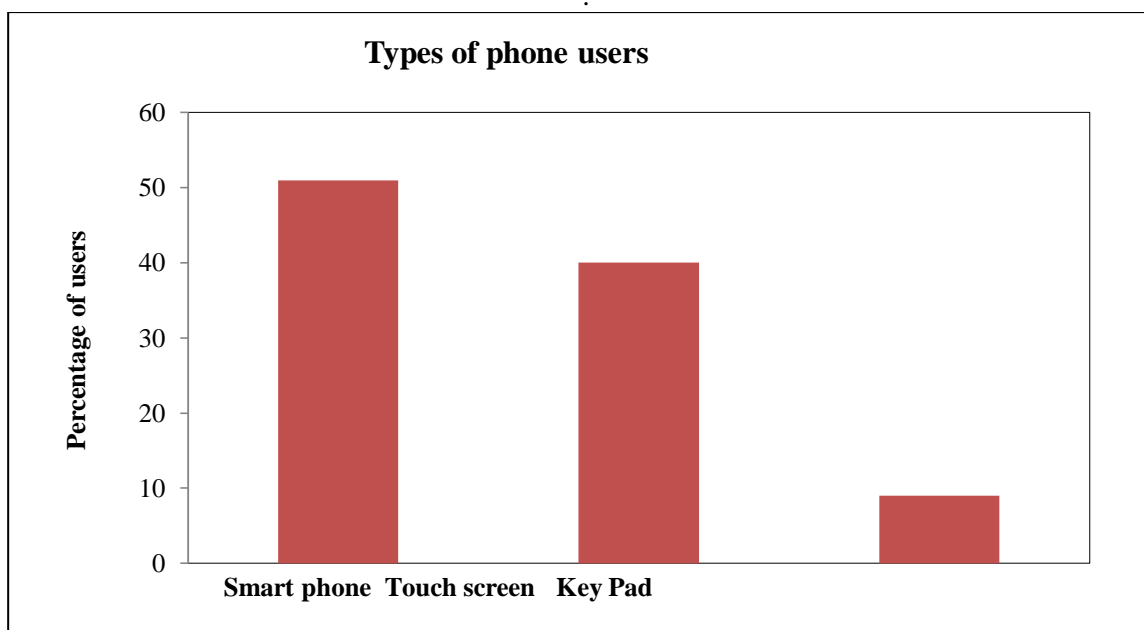
Age group in years	Percentage of users
Below 20	24
20-30	25
30-40	35
After 40	16

**Source:** Primary Survey, June-2018.

In the entire area maximum phone users are below forty in their age group and the most dominant categories is 30-40 years age group. People use various types of phone like key pad, touch screen, smart phone. Now the age of smart phone and smart phone users are dominant in the entire area.

**Table 3: Percentage types of phone users**

Types of Phone	Smart Phone	Touch Screen	Keypad
Used by People in percentage	50	41	9



**Source:** Primary Survey, June-2018

**Table 4: Type of phone users**

Ward No.	Types of phone users (%)		
	Smart Phone	Touch Screen	Keypad
1	60	40	0
2	67	33	0
3	40	40	20
4	50	33	17
5	50	33	17
6	33	50	17
7	29	57	14
8	50	33	17
9	33	50	17
10	67	33	0
11	67	33	0

Ward No.	Types of phone users (%)		
	Smart Phone	Touch Screen	Keypad
12	57	43	0
13	57	43	0
14	50	33	17
15	67	33	0
16	33	50	17
17	60	40	0
18	43	57	0
19	40	40	20
20	57	29	14
Average	51	40	09

Source: Primary Survey, June-2018

The recent mobile phone users use different phone for different purpose i.e. occupational, office, personal, etc. and the table-5 shows that average number of mobile phone per people is more than one and it is common in case of urban users.

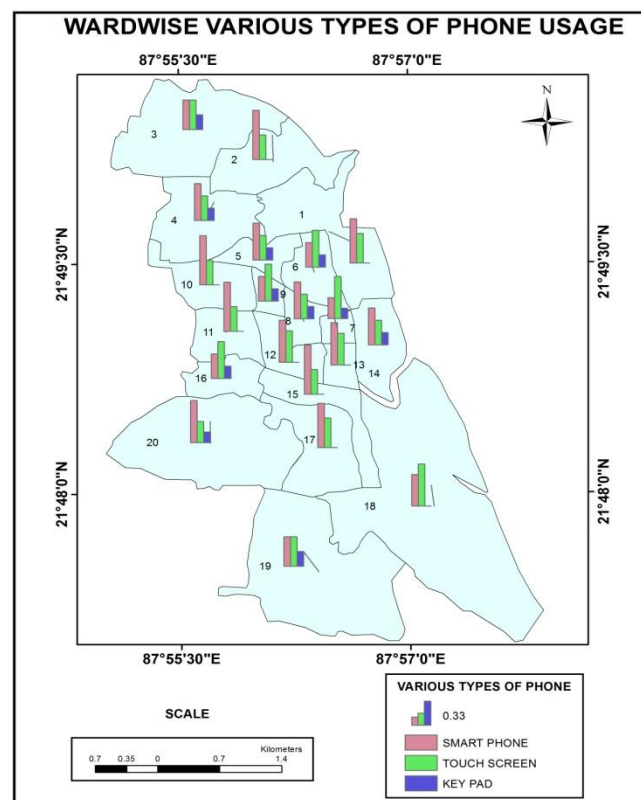


Table 5: Average rate of per head distribution of phone

Ward	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
No. of mobile phone	1	1.2	1	1.2	1.2	1.2	1.2	1.4	1.2	1	1.2	1.4	1.4	1.2	1.2	1.2	1	1.4	1	1.4

Source: Primary Survey, June-2018

Table 6: Duration of phone uses

Duration in months	<6	6 to 12	12 to 24	24 to 36	>36
Percentage of phone used	20	24	28	13	14

Source: Primary Survey, June-2018

**Table 7: Brand of phone used**

Name of brand of phone	Percentage of users
Samsung	26
Nokia	12
Oppo	03
Redmi	09
Honor	05
Intex	05
HTC	03
Sony	03
Vivo	04
Blackberry	03
Micromax	06
LAVA	06
Gione	03
Others	10

**Source:** Primary Survey, June-2018

**Table 8: Network used in the phone**

Network Brand name	Airtel	Vodafone	Jio	Idea	Others
Percentage of Network users	34	40	16	7	3

**Source:** Primary Survey, June-2018

In the study area smart phone is more popular than touch screen and key pad phone because of its easy and quick functionability and portable than notebook or laptop. The mobile phone is more common in general and personal uses for last three years. Peoples uses many brand like Samsung, Nokia, Oppo, Redmi, Honor, intex, HTC, Sony, Vivo, Blackberry, Micromax, LAVA, Gione, etc. Among these brands Samsung is dominant for its price and durability.

**Table 9: Major purposes of using mobile phone**

Sl. No. of purpose	Purposes
1	Communication (parents, friends, relatives)
2	Academic related internet search
3	Entertainment and leisure (watching video, listening song etc.)
4	Business purpose
5	Emergency (health)
6	To access information (internet, email, sports, political news etc.)
7	Online shopping (food, cloth, medicine, book, etc.)
8	Others (calculation, dictionary, banking related etc.)

**Table 10: Priority given by the peoples of purposes**

Sl. No. of purpose	Priority given by users ( percentage of users)							
	1st	2nd	3rd	4th	5th	6th	7th	8th
1	58	39	3	0	0	0	0	0
2	15	17	12	0	0	1	0	0
3	7	31	38	10	9	0	0	0



Sl. No. of purpose	Priority given by users ( percentage of users)							
	1st	2nd	3rd	4th	5th	6th	7th	8th
4	14	4	0	0	0	0	1	0
5	6	9	31	21	6	0	0	0
6	0	2	4	17	32	13	0	0
7	0	0	0	0	0	6	2	0
8	0	0	2	43	17	0	0	0

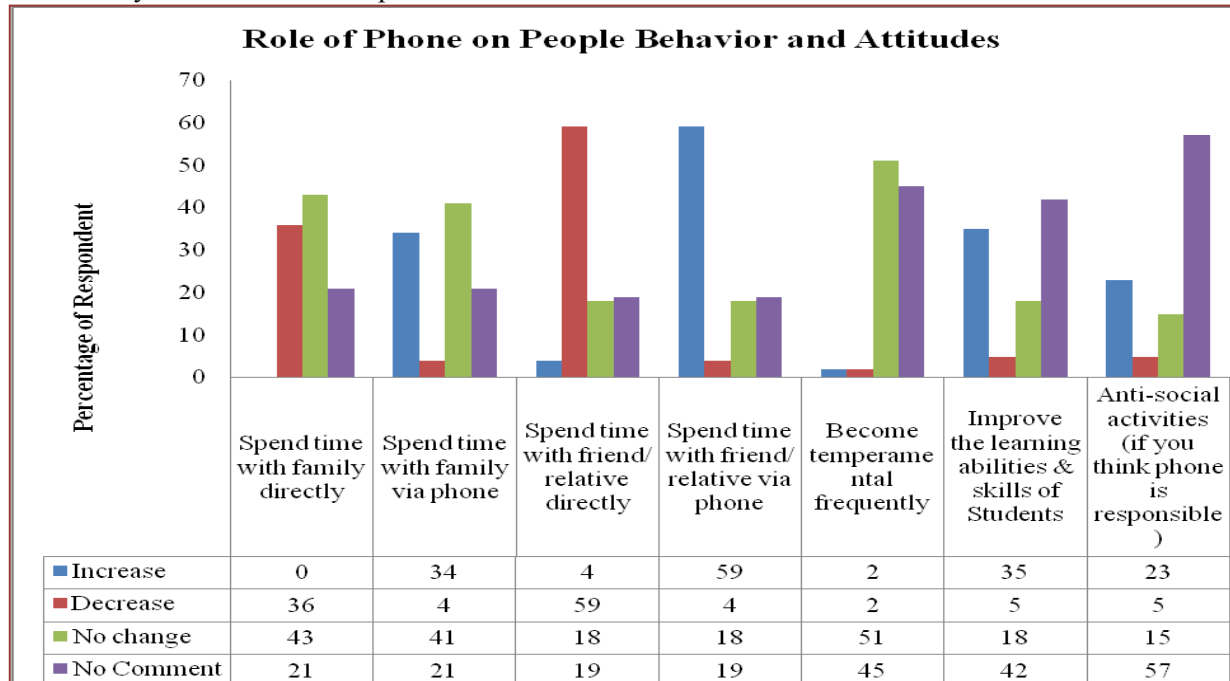
Source: Primary Survey, June-2018

**Table 11: Social Media users categories**

Category of users	Mostly used social media (%)			
	Facebook	Whatsapp	Email	others
Student	35	40	37	15
Serviceman	17	18	8	3
Businessman	14	16	14	0
Housewife	8	9	0	0
Others	6	4	4	2

Source: Primary Survey, June-2018

Uses of mobile phone and smart phone influence the human social behaviour and attitude, social relations and psychological characteristics of human beings. Smart phone used in the society totally changes the pattern of social relations, process of social communications, and utilization of times. In many cases personal relations is also affected by the overuse of this pocket device.



Source: Primary survey, June-2018

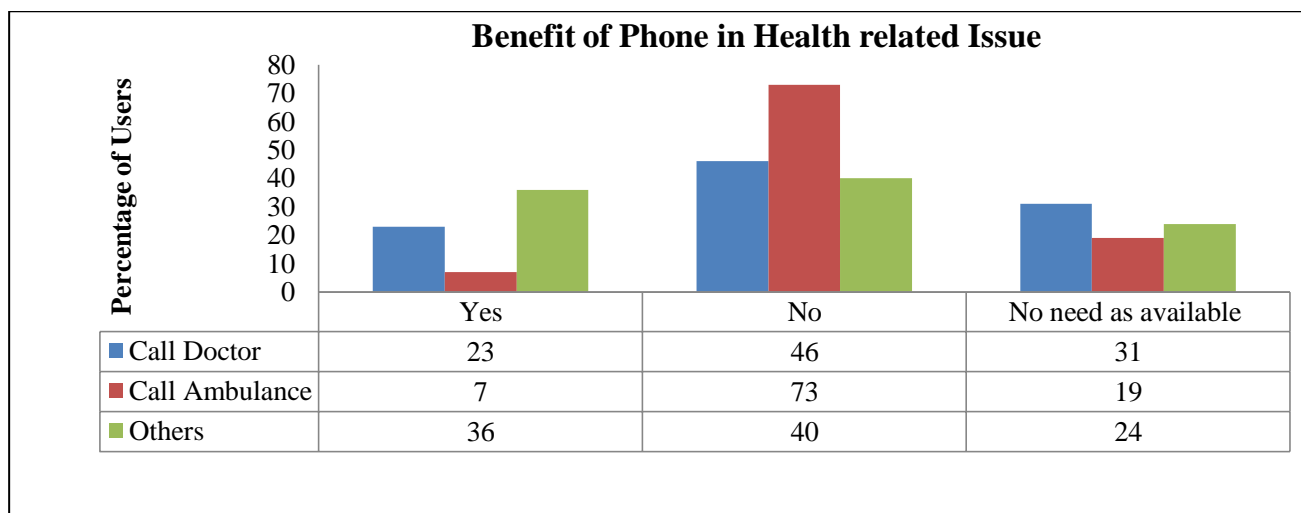
**Table 12: Having Health Problem due to over use of phone**

Problems	Yes (%)	No (%)
Migraine and Headache	9	91
Sleeping disorder	18	82



Problems	Yes (%)	No (%)
Irritation/ Anxiety	7	93
Remembering problem	9	91
others (eye related)	8	92

Source: Primary Survey, June-2018



Source: Primary Survey, June-2018

**Table 13: Impact of mobile phone on students**

Communication with			Mind Freshen/ leisure (Reading, watching and listening)			Study (Reading, watching and listening)		
							Yes (%)	No (%)
Category	Yes (%)	No (%)	Medium of Mind freshen	Yes (%)	No (%)	Books	19	24
Teachers	39	4	Video	38	3	News	23	22
Academic websites	16	27	Music/Audio	41	2	General knowledge	35	10
Friends/Others	41	2	Chatting/Talk	33	6	Video	15	30

Source: Primary Survey, June-2018

Overuse of mobile phone affected the human health like migraine and headache, sleeping disorder, irritation, anxiety, loss of memories and concentration and eye related problem. In Tamluk urban area many smart phone users of younger's, teenagers and adult are suffering from problems of sleeping disorder. It also affects maximum to the student's mental and social development process. In the academic purpose mainly smart phone uses like a good friend and uses as a communicative media with their teachers, friends; entertaining media for listening music, watching video, chatting with the friends; knowledge gaining media like book searching, news paper reading, general knowledge reading, academic video watching, numerical problem solving, etc. It is also true that if the students use this device properly smart phone very helpful for their academic up gradation.

**Table 14: Management steps to reduce overuse of phone**

Step may be taken likes	Agree (%)	Disagree (%)	Agree but not possible to them (%)	No comment (%)
Time reducing	43	18	35	4
Keep life-work balance in mind	68	0	26	6

Step may be taken likes	Agree (%)	Disagree (%)	Agree but not possible to them (%)	No comment (%)
Become more friendly of parents with their child	60	0	2	8
Don't give phone to child	57	3	22	18
Maintain age to provide phone to the students	22	8	14	9

Source: Primary Survey, June-2018

## MAJOR FINDINGS:

Major findings of this work are as follows-

- Mobile phone and smart phone is one of the important and demandable devices of all categories of people in the society.
- Teenagers, adult and students are the mostly users groups of mobile and smart phone.
- Many people's uses more than one connection for their usable device.
- Mobile phone and smart phone is one of the device that control human behaviour, attitude, social relations, emotions and individuality of the urban society.
- This device tremendously changes the communication systems and teenagers, adults, students, spend their huge time for whatsapp, facebook, etc.
- Teenagers, young's and adults adversely affected due to misuse of smart phone.
- Overuse of smart phone produces different health related problems like sleeping disorder, anxiety, migraine and headache, irritation, etc.
- Peoples mainly teenagers, younger's and students has no idea of time management regarding the utilization of mobile and smart phone.

## CONCLUSION:

Technology is always for the mankind but it is essential to use the technological devices properly. Mobile phone is an important invention of science and technology in the twenty first century of the world. But due to lack of proper uses, many peoples in the society wrongly use this device. Proper time management is essential for the students, teenagers regarding the utilization of smart phone. Parents monitoring is essential during the time of browsing internet by the students and teenagers in their personal devices.

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