Women and its contribution in education era of 4.0 reviewed from Islamic perspective

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ABSTRACT

This study conducted with the purpose to know women contribution in education in 4.0 era from perspective Islam. This study is literature review oriented to script, book, document, and newspaper which are related with digital literacy and education. Result of this study show that there are opportunity and challenges the role of women in revolution era 4.0. reviewed from. The opportunity is women can used internet as source of education for their child, while the challenge is negative content on internet. Reviewed from Islamic perception, women has important role as first madrasa for their children, so women must be wise in selecting internet content appropriate for children. It would be better if the use of internet is done by using it for positive and religious things

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1. Introduction

Education is one important thing in developing and world civilization increasing. [23] state that mastery of information and technology is important aspect in education system both formal and nonformal. Education happen in association between humans but not all of human association is education. Association intentionally done and planned to achieve certain goals [20]. Indonesian have regulation Number 20 2003 about National Education System chapter 3 mention that national education working to developing ability and make character and civilization of nation dignified in order to educate the nation's life, and aims to develop students' potential in order to become human beings who believe and fear God Almighty, have noble character, healthy, knowledgeable, competent, creative, independent, and become democratic citizens and responsible.

Increasing of technology and information must be followed with digital literacy skills. This is absolute condition that can't be avoided. Literation's movement encouraged by Ministry of Education and Culture since March 2016. Besides that, digital literation is one of skills must be mastered in 4.0 revolution era as one of literation foundations [12].

As time goes, there are changes in human behaviour consciously or not. This is can see from development of education system. Education system is a strategy or method used in learning process

to achieve the goals for students in active to development the potential. Development of education in over the world cannot be separated from development of revolution industry happen in this world.

Many convenience and discovery obtained through digital technology. All the service quickly and efficient also have range connection more large used online system. Revolution industry today entered fourth phase [9]. The fourth phase means are (1) revolution industry 1.0. started in 18th century through using steam power and production mechanization, (2) revolution industry 2.0. started in 19th century through electrical invention and assembly production line, (3) revolution industry 3.0. started in 70's through partial automation using programmable memory and computer controls, (4) revolution industry 4.0. characterized by the application of information and communication technology in industry.

Development of science and technology very fast give big impact to human life so it's more be easier and inexpensive. But, digitalization also gives negative impact, because human roles step by step taken over by automatic machine. This is will add local and national caseload. Therefore, to utilise opportunities and answer the challenges revolution industry of 4.0., stakeholders must have data, technology and human literation ability so, the number of unemployed is not increasing.

Various interesting feature provided by gadgets such as smartphone as due to technological advances caused addicted in daily life started from young generation till old generation. Dependency of using smartphone also closely related with access of using internet that more be easy than before. Internet growth already given many positive impacts included to offer goods and services, information about health, education, also many information about the world that can be access easier. But digital development gives various easier in daily life including for women. Although given many easier, society still need to be vigilant with bad impacts such as online violence and cybercrime that are vulnerable to experience. Lack of understanding about digital literation will have a fatal impact on the mental development of children in living their lives. Not a little case about gadgets abuse for children till make the children fall into disobedience such as online gambling and so on. It can minimized if a mother has digital information literacy, so can protected her children behaviour maximally. In this case women must contribute in developing and its utilizing. Digital literacy be important especially for women because women has role to educate their children. This is accordance with the words of a poet named Hafiz Ibrahim. He says that "*Al-Ummu madrasatul ula, iza a'dadtaha a'dadta sya'ban thayyibal a'raq".* It's means a mother is first madrasa for their children. If you (mother) prepare your child well, then in the same way you prepare a good nation at its root.

From the verse, it's known that mother is place to get first education which will later provide an example for attitude, behaviour and the personality of a child. From the mother, children will study about many new things in their live. Therefore, the important of science about digital literation for women especially for mother is urgent to develop and increase. The development of science and technology have impact on the increasingly complex role of women. Revolution era of 4.0. marked with the rapid development of technology that affects world of education. Based on these descriptions, this article will study about opportunity and challenges the role of women in revolution era 4.0. with analyse women's roles in education.

2. Method

This study is literature review oriented to script, book, document, and newspaper which are related with digital literacy and education. Data analysis in this research use data triangulation formulated by Miles and Huberman, there are data reduction, data presentation, dan drawing conclusion. The three steps working to presentation the information neatly arranged from various sources to draw conclusions in a document [24].

3. Findings and Discussion

Concept of digital literacy started appearing since 1990, one of the characters is Gilster. He defines that digital literacy is an ability to understanding and using information from various digital sources [18]. Digital literacy not only covers reading ability, but its also needed critical thinking to evaluate the information finding through digital media [1]. Progress in the economy and education aspects push women to take transitional role including worker, community, and human development [24] to make

its existence. Quality women can take important roles both as mother in teaching their children as young generation, or in public sector.

Using of digital technology not only give positive impact, but also give negative impact such as aspects in physic health, negative content that caused mental disordered till others trigger crime. Of course, in this situation it's needed role of people that can accompany and teach children so, they don't wrong to study using digital media as learning media. In this condition, roles of teacher and parents is important. It because teacher is mentor when the students at school, while parents is student's mentor when they are in home. With assistance to children in using digital media, its hope they are not wrong in using many features available in digital media.

Term of digital literacy that is developing in industrial revolution era 4.0. is an era marked by presence the artificial intelligence (AI), supercomputer era, gene technology, innovation and rapid change affecting the economy, industry, government and politics [22]. These symptoms include many social media sources, such as YouTube, Instagram, etc. The presence of the industrial revolution 4.0 must be utilized and managed properly by women because it offers promising prospects for the position of women in the framework of global civilization.

For this reason, women have the task of assisting and providing boundaries and moral and spiritual values to eliminate the negative effects of modern technology and globalization. The role of women in education is very important because knowledge makes women smarter and more multitasking. Women no longer live in families of housewives and babysitters, but also participate in development of public world and education in Indonesia.

Some people have perception if in the world, knowledge belongs to men as if women doesn't have role in the field of knowledge. Even though historically, there were many women who played an important role in the development of knowledge. Basically, the definition of education is an effort made by individuals both men and women to implement values, habits, and ideal forms of life in carrying out more effective life [1]. This inline with statement by [11] if the presence of internet can empower Indonesian's women through the opportunity such as work and create an online shopping. Unfortunately, development of information technology has not happened evenly and automatically by taking advantage of opportunity for women in Indonesia [22]. Besides having prepare themselves to able work in fulfil their daily needs, woman also has full responsibility for their children both physically, lovingly and fulfilling their children's educational needs. The fulfilment of children's education doesn't only provide opportunities for children to learn and school, but the role of women in education in the family is broadly defined women as educators. No matter how busy her, education shouldn't be forgotten. In addition, women also serve as the basis of children's education apart from being a protector and caretaker for children.

One of the women's task is to make children more mature, independent and also teach children what is good and wrong so when the times are developing the child can still sort out what is good and what is wrong. So important the development of women's participation in development of the education world and increase knowledge for women's community groups, women (mothers) are schools for their children. Women are the first and foremost educators in their family and even women can be an indicator of the strength a nation. Women doesn't only care about herself but also for their children. Demands of the era and technology make women more creative and innovative to maintain education in Indonesia to be effective in the midst of the times. Talking about women is always actual, interesting and never ending just like when talking about thrones and treasures. One day, women can be queens of the world, but at other times women can be poison of the world. This actually comes down to how society and women themselves are able to position and make themselves in the midst of community life.

In this context, Islam whose norms are derived from divine revelations has placed women in very honorable and noble position in accordance with their nature and character, no different from men in matters of humanity and their rights [8]. Therefore, it's an incorrect assumption and very wrong if anyone thinks that Islamic teachings are discriminatory against women. Moreover, when compared to teachings, attitudes and customs outside of Islam, the attention and appreciation of Islamic law towards women is truly extraordinary. In the midst of global life, there are communities that place wives (adult women) under guardianship which legally means they don't have ability to actequal to minors and equal to crazy people [4]. There is also a community that always exploits the aspect of

femininity (sex appeal) as business commodity for economic-materialistic purposes which Islam strongly opposes. Likewise, historically there are groups of people who make women as second-class citizen as was the case in the Jahiliyah era. As a result, outside of Islam women are more dominant as objects than as subjects in social life more burdened with obligation that given rights [10].

In an increasingly sophisticated era like today, everything can be done online and instantly such as household needs and even shopping can be done using an online system. Not only that, the world of education is also affected by the times. Some expert said that there have been many changes in the learning process of students. The term digital native or digital generation is currently trend for students because this generation was born in the era of digital technology who are very proficient in using electronic media. Currently, the use of digital technology doesn't always provide positive things but also negative impacts such as physical health problems, exposure to negative content, causing mental disorders, exposure to hoaxes, disrupting relationships, and triggering crime. For this reason, special supervision is needed so the utilization and use of technology can be used effectively. One of them is by involving the role of women. Not only required to be mother, women can also work. Not a few women who take up two professions as housewives and other jobs. This cannot be separated from the awareness of women regarding the importance of education for the future mankind, especially women in facing job competition and careers that are equal to men [1]. In connection with the development of the era which is increasingly changing, society now requires the role of women in all aspects both in socio-economic or educational. This is due to the demands of nation and the global community that progress of nation determined by how the nation treats women, cares and provides the widest possible access for women to participate in activities and build the nation [2].

Along with increasing the use of digital media and because its free, many people abuse it. The rise of cyberbullying, fraud, invasion of privacy, addiction, the spread of false information (hoax), makes the use of digital media must be accompanied by caution and full vigilance [17]. For women, limited time because take care of household chores such as taking care of children, cooking and cleaning the house is one of the crucial issues in gender perspective [16]. This condition has implication for the stratification of the labor market, where men occupy positions of workers with lower waged even without income [19]. Women with low digital literacy will have bad impact on chid development. As stated by [6] that the generation's proficiency in digital media is determined by various factors including exposure to digital technology, mother's education level and family economic level. Therefore, it's important for women to equip themselves with qualified digital literacy. The purpose of good education is a conscious and planned effort to create learning atmosphere and learning process so the students actively develop their potential in religious spiritual strength, personality, self-control, intelligence, noble character and skills needed by themselves, nation's community and the state. Demands of the times and technology make women more creative and innovative [14] to maintain education in Indonesia to be effective although with the passage of time.

Context of education in Islam can be interpreted as a conscious effort to develop intellectuality in the sense of the human personality which includes aspects of faith, morals or mentality, behaviour and so on [21]. Especially now known as the disruption era [11] or the industrial revolution era of 4.0 marked by increased connectivity, interaction, and developments in digital systems, artificial intelligence, and virtual [15]. In women's digital literacy, the issue that is not less important is their understanding using digital media for productive activities so they can increase values and knowledge [5]. The use of digital media as form of digital literacy in the 4.0 revolution era, where learning system doesn't carry out face-to-face learning, the impact is students are less active and not optimal in learning system [13]. For this reason, it's necessary to have special supervision and assistance so the use of digital media is used properly and must be balanced properly well so it's more effective [22]. In this case, women are responsible for the supervision that must be given to their children. Women in Islam perspective actually occupy very respectable position [3]. In Islam, sometimes talk about women as women (for example in terms of menstruation, pregnancy, childbirth and breastfeeding obligations) and sometimes also talks about women without being distinguished from men (for example in terms of the obligations of prayer, zakat, hajj, noble character, amar makruf nahi munkar, eat and drink lawful and so on). Both views are equally aimed at directing women individually as noble human beings who are responsible for the education [7] of their children through non-formal education.

4. Conclusion

It's time for women to be seen not only as burden of development but also as partners and subjects of increasing education development. Strategic positions can be filled by women in various disciplines. Efforts to develop the potential for women in community and even national life are must as a form of empowerment from women's powerlessness.

Based on the results analysis about contribution of women in education field of industrial revolution 4.0 era, it can be concluded that there are several opportunities for women in education field, including the opportunity used internet as source of education for their children in accordance with the role of women as the main madrasa for their children. In taking advantage of this opportunity, there are several challenges such as negative content on internet, invasion of privacy, addiction, to the spread of false information (hoax) so women as mothers as the main madrasa for their children must be able to filter out their children.

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