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Correlation of Science in Al – Quran Perspective

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ABSTRACT

This study aimed to find out the correlation between science and Quran, through the literature method. Islam is the perfect religion with Quran as the foundation of life for people. The term perfect refers because its language truth from Allah that absolute dimension, while science is dynamic along with scientific inventions. Quran also leads to universal science and does not distinguish science, or social science from Quran, it can give a route to scientific inventions. Therefore, from the result of this study, the Quran correlates with all science concepts.

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1. INTRODUCTION

Integration is mixing, combining, and merging two or more things and each other complementary (Khusniati, 2014). Study science comes from evidence or a general truth from nature law's that occurs through the scientific method. Science in this case refers to a system to take lore through observation and experiment to explain phenomena that occur in nature (Khusniati, 2014). Studies about science are inseparable in the view of Islam or the Quran because religion is the main of all field study and science is one of the branches (Masruri & Rossidy, 2007). But there are still obstacles when a religion explains science (Mundir, 2017). Because some people still look at the two paradigms as different orientations (Mundir, 2017). Science prioritizing empirical logic that something said to be "true" measures from reasons and can be proven empirically (Mundir, 2017). On the contrary, religion is only based on the normative teaching that something said to be "true" is something normatively so (Mundir, 2017). Religion and science must coexist because it's one integral whole that is inseparable in all lines (Nasiruddin, 2013).

This development of science is according to technologies, and political, social, economic, and philosophical developments in society. And in the other hand, science will continue to grow till its development threatens human life. For example, developments in the field of weapons that bring through be triggers wars, even in industries field sooner or later threaten the environment sustainable that real impacts from the development of science and technologies (Masruri & Rossidy, 2007). It is seen from the impact. And, it is now the time to think about how science and technology are efficient and effective. Thus, they can minimize the impact caused (Masruri & Rossidy, 2007). Thus, science and religion need to be integrated without losing and mixing the identity and entities of each other (Nasiruddin, 2013). Because science without spirituality destroys a man.

Islam is the mercy for the universe, it is time to combine with the concepts of science, which are intended to make technology and industry always empowered and follow their purpose and function for the welfare of mankind (Masruri & Rossidy, 2007). Because Islam (Al-Quran) has provided a perfect system in all aspects of human life including scientific activities, scientific activities are part of the whole Islamic system where each other gives contributes to the other (Fakhry, 2010). History has noted the progress of Islamic civilization in all fields of science, Muslim scholars at that time became a pioneer of knowledge such as Al-Kindi, Al-Ghazali, and Al-Rushd they are Muslim intellectuals who have great contributions to the progress of the world (Purwaningrum, 2015). This shows that the concepts of science have been composed by Muslim scientists long before the philosophy of science evolved into a discipline.

2. METHOD

This type of study is literature research. This study is similar to the explanation in previous literature (Arifullah, 2006). The primary sources in this study are articles in international journals that discuss specifically the relationship between religion and science. The way how to search for articles in international journals are described in previous literature (Azizah *et al.*, 2021).

3. RESULTS AND DISCUSSION

Islam as a universal religion that prevails throughout this age not only regulates the matter of the afterlife but governs the affairs of the world as well. Islam organizes integrated science-

related divinity and relates to the world. Thus, the unification of knowledge and religion is necessary for the welfare of mankind. Thus, the al-Quran can be a source of inspiration or a source of knowledge without any separation between Islamic and non-Islamic science.

The integration between religion and science has now become a new paradigm of scholarship, it is based on the fact that this model of education can lead graduates to have more knowledge, personality, and insight because they have the ability of IMTAQ (faith and taqwa) as well as science and technology (Purwaningrum, 2015 ; Mansour, 2011).

Many scientific facts are contained in the Qur'an like the scientific facts of the creation of the universe, the scientific facts of the sky that was originally smoke, scientific facts about orbit, and others. The fact of the universe is mentioned in Q.S Az-Zumar: 38:

وَلَئِنْ سَأَلْتَهُمْ مَنْ خَلَقَ السَّمَوَاتِ وَالْأَرْضَ لَيَقُولُنَّ اللَّهُ قُلْ أَفَرَأَيْتُمْ مَا تَدْعُونَ مِنْ دُونِ اللَّهِ إِنْ أَرَادَنِيَ اللَّهُ بِضُرٍّ هَلْ هُنَّ كَاشِفَتُ ضُرِّيهِ أَوْ أَرَادَنِي بِرَحْمَةٍ هَلْ هِيَ مُمْسِكَةٌ رَحْمَتِهِ قُلْ حَسْبِيَ اللَّهُ عَلَيْهِ يَتَوَكَّلُ الْمُتَوَكِّلُونَ ﴿٣٨﴾

39:38 And verily, if thou shouldst ask them: Who created the heavens and the earth? they will say, Allah. Say: Bethink you then of those ye worship beside Allah, if Allah willed some hurt for me, could they remove from me His hurt; or if He willed some mercy for me, could they restrain His mercy? Say: Allah is my all. In Him do (all) the trusting put their trust.

On Q.S Al-An'am : 101 :

بَدِيعُ السَّمَوَاتِ وَالْأَرْضِ أَنَّى يَكُونُ لَهُ وَلَدٌ وَلَمْ تَكُنْ لَهُ صَاحِبَةٌ وَخَلَقَ كُلَّ شَيْءٍ وَهُوَ بِكُلِّ شَيْءٍ عَلِيمٌ ﴿١٠١﴾

6:101 The Originator of the heavens and the earth! How can He have a child, when there is for Him no consort when He created all things and is Aware of all things.

Allah also explains the process of the creation of the universe in verse Q.S Al-Anbiya: 30:

أَوَلَمْ يَرِ الَّذِينَ كَفَرُوا أَنَّ السَّمَوَاتِ وَالْأَرْضَ كَانَتَا رَتْقًا فَفَتَقْنَاهُمَا وَجَعَلْنَا مِنَ الْمَاءِ كُلَّ شَيْءٍ حَيٍّ أَفَلَا يُؤْمِنُونَ ﴿٣٠﴾

21:30 Have not those who disbelieve known that the heavens and the earth were of one piece, then We parted them, and we made every living thing of water? Will they not then believe?

From the verse is known that at first heaven and earth it is something that together, then God separates the two. Thus, the universe formed. This verse relates to a theory of the formation of the universe the Big Bang Theory is recognized as the most appropriate theory that speaks of the creation of the universe that can be proven scientifically.

There are many concepts about science in the Qur'an, including:

- (i) The concept of Natural Science. The concept of the phenomena of living beings is discussed in the Qur'an on the Origin of life from water (QS. Al-Anbiya':30); Various kinds of water as a source of life (QS. Thaha:53; QS. Al-An'am:99; QS. Al-Nahl:65; QS.

Al-Hajj:5); The world of plants that thrives on water (QS. Fushshilat:39; QS. Qaf: 9-11; QS. Al-An'am:141; QS. Al-Nahl:10-11); Various kinds of fruits, flowers, and harvests that can be picked (QS. Al-Hijr:19; QS. Al-Qamar:49; QS. Ar-Ra'd: 3-4; QS. Thaha:53; QS. Luqman:10; QS. Hajj:5; QS. asy-Syura:7-8; QS. Al-An'am:95; QS. Yasin:36); Animal World (QS. Al-Najm: 45-46; QS. Zukhruf: 12; QS. Al-An'am: 38, 142-144; QS. Al-Nahl: 5-9); Plateau and rain (QS. Al-Baqarah: 265); Flood (QS. Saba': 15-16); Animal motions (QS. Nur: 45); Plant & animal (QS. Yasin:36; QS. Al-Hijr: 22); The universe is in a gas state (QS. Fushshilat: 11); Orbit (QS. AdzDzariyat: 7; QS. Al-Anbiya': 33; Yasin: 40); Atoms and Subatoms (Saba': 3); Pull and movement (QS. Takwir: 15-16); Relativity of time (QS. Maarij:4; QS. Sajdah: 5; QS. Al-A'raf: 54; QS. Hud: 7; Yunus: 3, 5 & 45; QS. Al-Furqan: 59; QS. Al-Mukminun: 112-113); Rotation & revolution (QS. Yasin:38; QS. Shaffat: 5; QS. Yunus:5); orbit of the moon (QS. Yasin: 39; QS. Syams: 1-2); layers of sky (QS. Mulk: 3 The earth layer (QS. Al-Thalaq: 12); Rain (QS. Al-Thariq: 11); sky without pole (QS. Ar-Ra'd: 2; QS. Fathir: 41); Earth's geoidal form (QS. Al-Nazi'at: 30); Day and night (QS. Az-Zumar: 5); Earth and mountain rotation (QS. Al-Naml: 88); Cloud and rainfall process (QS. Nur: 43; QS. Ar-Ra'd: 12); Water Cycle (QS. Al-Zumar: 21; QS. Al-Nazi'at: 31); sea (QS. Al-Rahman: 19-20); petroleum (QS. Al-A'la: 4-5).

- (ii) Physical Concepts. Several verses related to the concept of physics are Electricity (QS. Nur: 35); Atmospheric (QS. Fushshilat: 12); heat energy (QS. Yasin: 80; QS. Waqi'ah: 71-73; QS. Thaha: 10; QS. al-Naml: 7); mass and balance (QS. al-An'am: 152; QS. al-A'raf: 85; QS. As-Syura: 17); sound waves (QS. al-Kahfi: 26; QS. Saba': 50); The physical discipline of the solar system (Purwaningrum, 2015), ie the motion of the sun, moon, and earth that continues to be sustainable. This phenomenon happens to give life on earth. The rotation of the earth results in the process of day and night when the earth does not rotate then some parts are constantly exposed to sunlight and some parts are in the dark. Thus, the earth's rotation is related to the Quran in the QS. Al-Anbiya ': 33 and QS. Yasin: 40 as follows:

21:33 And He is Who created the night and the day, and the sun and the moon. They float, each in an orbit.

36:40 It is not for the sun to overtake the moon, nor doth the night outstrips the day. They float each in an orbit.

All the motions of the sun, earth, and moon continue to take place in perfect harmony in its orbit.

- (iii) Chemistry Concept. The verses in the Qur'an that describe the chemical concepts of Air / Hydrogen (QS. Hud: 11; QS. al-Anbiya': 30); Atomic & subatomic particles (QS. Saba':3; QS. al-Furqan: 2); chemical reactions to the rock phenomenon (QS. al-Baqarah: 74; QS. al-A'raf: 58); metals (QS. Ali Imran: 14; QS. al-Taubah: 34); iron (QS. al-Hadid: 25; QS. al-Isra': 51, QS. Saba': 10-11; QS. Ibrahim: 50). In the Qur'an it describes the various benefits of water that are the source of life for humans, plants and animals, even most of the human body is composed of water (Purwaningrum, 2015). The verses describe the benefits of water as follows:

27:60 Is not He (best) Who created the heavens and the earth and sendeth down for you water from the sky wherewith We cause to spring forth joyous orchards, whose trees it never hath been yours to cause to grow. Is there any Allah besides Allah? Nay, but they are folk who ascribe equals (unto Him)!

2:164 Lo! In the creation of the heavens and the earth, and the difference of night and day, and the ships which run upon the sea with that which is of use to men, and the water which Allah sendeth down from the sky, thereby reviving the earth after its death,

and dispersing all kinds of beasts therein, and (in) the ordinance of the winds, and the clouds obedient between heaven and earth: are signs (of Allah's Sovereignty) for people who have sense.

16:11 Therewith He causeth crops to grow for you, and the olive and the date palm and grapes and all kinds of fruit. Lo! herein is indeed a portent for people who reflect

- (iv) Math Concept. The verses relating to arithmetic are (QS. Al-Rahman: 5; QS. Al-Kahfi: 11-12, 19,22; QS. Al-Mukminun: 112-114; QS. Ibrahim: 34; QS. Hud: 104; QS. Mudatsir: 31; QS. Yusuf: 20); Calender (QS. Al-Taubah: 36); accretion (QS. Al-Baqarah: 261; QS. Yusuf: 43).

In QS. Al-Baqarah: 261: The likeness of those who spend their wealth in Allah's way is as the likeness of a grain which groweth seven ears, in every ear a hundred grains. Allah giveth increase manifold to whom He will. Allah is All-Embracing, All-Knowing.

From the verse can be given the seed is the variable y , and the seed variable z , then in the mathematical formula can be written as follows:

a. Equation I = $x = 7y$

b. Equation II = $y = 100z$

Equation III we get if equation II is substituted in equation I and yields $x = 7 (100z)$. Then $x = 700z$. Thus, for someone who spends his wealth in the way of Allah, Allah will multiply it to seven hundred folds (Purwaningrum, 2015; Malik, 2022).

- (v) The Concept of Language. The concept of language that is described in the Qur'an, namely animal communication (QS.al-Naml: 16 & 18, QS. Al-An'am: 38); language (QS. Al-Rahman: 3-4; QS. Al-Baqarah: 37)
- (vi) Information Engineering. The Qur'an also explains the validity of data and information as described in QS. Al-Hujurat: 6 and to facilitate access and process information in the QS. Al-Baqarah: 185; QS. Thalaq:7; QS. Al-Insyirah:5-6).
- (vii) Architectural Engineering. The Quran illustrates the style of the building with the beauty and comfort offered as well as the balance with the environment such as the parable of the iron bee house in QS. Al-Hadid: 25, QS. Al-Isra': 51, QS. Al-Kahfi: 96, QS. Saba': 10-11, QS. Al-Hajj: 21, QS. Ibrahim: 50; Beautiful dwelling in QS. Ali-Imran: 198, QS. Al-Taubah: 72, QS. Sajdah: 19, QS. Al-Nisa': 57, QS. Al-Insan: 13-14, dan QS. Al-Ra'd: 35.

4. CONCLUSION

In this study, it is known that the integration of the al-Quran and science is important because al-Quran is the perfect system to manage all aspects of human life including science. Thus, it is time for the Qur'an to be combined with the concept of science, which is aimed at technology and industry which is always empowered and following the purpose and function for the welfare of mankind.

5. AUTHORS' NOTE

The authors declare that there is no conflict of interest regarding the publication of this article. Authors confirmed that the paper was free of plagiarism.

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