The Interplay among Emotions, Creativity and Emotional Intelligence: A Case of Iranian EFL Teachers

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ABSTRACT

It goes without saying that educators strive for the ideal of developing higher order thinking skills like critical, reflective, logical, metacognitive, and creative thinking among their learners. Wundt (1916) considered lower order skills like Emotions as the base for the creation of these skills. Research on emotions and Emotional Intelligence has significantly increased over the past two decades with many fields contributing including psychology, neuroscience, sociology and endocrinology. The current study tried to uncover the interplay among Creativity, Emotions and Emotional Intelligence. To this end, the researchers studied the relationship of the constructs among 160 EFL learners. The results of the study showed no relationship between EQ and creativity, however, EQ components positively and significantly influence positive emotions and the reverse is true for negative emotions; EQ influences negative emotions, negatively and significantly. The findings of the current study could help further the knowledge on the interplay among Emotional issues and Creativity.

Keywords: Creativity, Emotional Intelligence, Emotions, EQ Components, EFL Teachers

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1. Introduction

The method era and too much almost hopeless engagement in finding a one-size-fits-all approach and/or method was one of the faults in second language acquisition (SLA); however, this fault must have been committed in order to prepare and evolve language educators to enter the post-method era. One of the fruits of this post-method era -as Kumaravadivelu (2001) believes- is a greater awareness of issues such as teacher cognition, his sense of plausibility and subjectivity; or the position of individual differences in current models of educational psychology has been turned to a major focus of carrying out SLA research. This decentralization of theorizing and making a class, a teacher and students the major focus of studies paved the way for delving into cognitive and affective internal factors of individual teachers and students. Fahim and Zaker (2014) asserted that current pedagogical concerns appear to highlight the major role of individual differences in language learning. Among these individual factors, according to GU (2003), intelligence is often thought of as the most significant predictor of language learning success. Two important affective factors of creativity and emotions are closely intertwined and they are both related to emotional intelligence. Leaping through literature reveals a considerable amount of research based on the influence of certain emotional states on creative performance (Ho and Siu 2011; Van Kleef et al. 2010). For instance, De Dreu et al. (2008) have found a link between positive emotions and divergent thinking in the right hemisphere of the brain. The positive emotions often provide a safe and problem free situation for individuals to feel unconstrained, to take risks, and to explore novel pathways and to rely on heuristic process styles. In contrast, negative emotions by restricting peoples' attention (Fredrickson, 2004), support convergent thinking and facilitate left hemispherical, secondary process cognition (De Dreu et al., 2008). That is negative emotions make the cultivation of creativity more difficult.

In teachers' lives, unexpected variables may exist that prevents them from striving for creativity and expecting failure or unpleasant feelings. In such situations, if
teachers do not have a certain level of emotional intelligence, achievement of creativity cultivation would be very difficult (Siu & Wong, 2014). Thus, teachers need to handle their emotions in order to be able to cultivate creativity; otherwise, gaps in emotional intelligence skills affect their psychological wellbeing as well as their teaching. Based on the existing literature, it was hypothesized that there can be interplay among EQ, Emotions and Creativity and thus the following research questions and hypotheses were posed:

Question 1: Is there any correlation between EQ and Emotions?

Question 2: Is there any correlation between Creativity and Emotions?

Question 3: Is there any correlation between Creativity and EQ?

To answer the research questions, the following hypotheses were posed:

**Ho-1**: There is no correlation between EQ and Emotions.

**Ho-2**: There is no correlation between Creativity and Emotions.

**Ho-3**: There is no correlation between Creativity and EQ.

### 2. Review of Related Literature

The related literature to the variables of the study namely Emotions, Creativity, EQ and will be presented in the following sections.

#### 2.1 Emotions

There has been little agreement across disciplines on how to define the concept of emotion (Boler, 1999). In previous studies, the word emotion was used in many ways which show the researchers’ different theoretical viewpoints including physiological, philosophical, historical, sociological, feminist, organizational, anthropological, and psychological perspectives (Oatley, 2000). For instance, Pekrun and Linnenbrink-Garcia (2014) defined emotions as “multifaceted phenomena involving sets of coordinated psychological processes with affective, cognitive, physiological, motivational, and expressive components” (p.2). Robbins and Judge (2013) defined emotions as intense feelings directed at something or someone. Damasio (1994) and Goleman (1995, 1998a, 1998b) argued that to make good decisions in the workplace, feelings are necessary.

For many years research into teacher emotions was surprisingly little. Until very recently, study about the emotional aspects of teachers’ lives has developed and expanded (Sutton & Wheatley, 2003). It was in the early 1980s, that the burgeoning of psychological research on emotions began (Lewis and Haviland, 1993), but little was known about this concept in teacher education until the late 1990s (Sutton & Wheatley, 2003). According to Zembylas (2003), there are three reasons for the lack of studies in this area. Firstly, it is due to this belief that teaching generally was thought as a cognitive activity rather than an affective one. Secondly, emotion was considered as elusive, difficult to grasp or objectively measured; that is why it was avoided to study. Finally, emotion was believed as a feminine subject and soft topic so it is not worth to study. In the same line of inquiry, Fried (2011) stipulated that the importance of emotions was underplayed mainly because they were not directly observable. Recent research shows that all aspects of schooling are closely related to emotion processes (Fried, 2011). That is due to the fact that teachers are assumed to be the cornerstones of each educational system that shape a bridge between their students and knowledge (Heydarnejad, Hosseini Fatemi, & Ghonsooly, 2017). They experience a wide variety of discrete emotions while teaching in the classroom and they are expected to regulate them (Taxer & Frenzel, 2015). Teacher emotions have also been shown to be inextricably linked to student emotions (Meyer & Turner, 2006), because learning is an emotional and a cognitive process (Fried, Mansfield, & Dobozy, 2015).

Teaching is charged with positive and negative emotions. With positive emotions such as enjoyment, pride, enthusiasm, and satisfaction, teachers are more successful because positive emotions enhance teachers to set more challenging learning goals for students and set more ambitious goals regarding their own teaching. (Sutton & Wheatley, 2003). Contrary to positive emotions, negative emotions such as anxiety, anger, shame, and boredom reduce teachers’ intrinsic motivation (Ryan & Deci, 2000). Teachers’ positive and negative emotions may also influence their categorizing, thinking, problem-solving, and even curiosity (Sutton & Wheatley, 2003). In short, teachers’ emotional experiences change the way they behave and teach in their classroom and consequently influence their learners’ mental and physical well-being (Heydarnejad, Ebrahimi, & Najjari, in press).

Leafing through the empirical studies conducted in the teachers’ emotions domain reveals a mounting attention in recent years. For instance, Hagenuer and Völot (2014)
examined university teachers' emotions in the classroom in a qualitative study. According to the findings, three themes based on emotions were identified. First, it was about intrinsic values and desirable nature of professional teaching. Second, it was related to how much teachers' expectations of students' engagement were fulfilled. Lastly, it was shown that teaching was partially controlled. By the same token, Taxer and Frenzel (2015) studied 226 secondary teachers from Germany. The result of this research indicated that teachers who genuinely expressed their positive emotions were efficacious, mentally healthy, felt related to their students, satisfied with their jobs, and had a low level of emotional exhaustion. However, those who genuinely expressed their negative emotions had low self-efficacy, poor physical and mental health, low job satisfaction, and high level of emotional exhaustion.

2.2 Creativity

Regarding the etymology of the word 'creative', Piirto (2004) asserts that it comes from Latin root 'creare' which means 'to make or produce'. The Latin term 'creō' is the root of the lexeme in the word creativity in the English. It means that something new and worthwhile is being created, whether intangible (like an idea, a scientific theory) or tangible (like an invention). Eragramreddy (2013:93) assumes that 'creativity' or 'creative thinking' reveal the kind of thinking that leads to new insights, novel approaches, fresh perspectives, whole new ways of understanding and conceiving of things. Michael Mumford suggested that "we seem to have reached a general agreement that creativity involves the production of novel, useful products" (Mumford, 2003, p.110). Successful intelligence theory posed by Sternberg and O'Hara's (2000), explained creativity as generating products or ideas that are original and valuable. Thus, Fisher (2005) censures reproduced or stereotyped ideas which are called creative, though they may be found fine or elegant. The achievement of new and remarkable things that can significantly change effort is the definition that Gardner (1993) offered for it. Craft conceives a difference between "little c" creativity which concentrates on everyday creativity and "big C" which carries a great impact on society, but 50 definitions of creativity were estimated by Rhodes (1961) in his "4-p's" model. In the world of teaching, ideas and theories are produced which are necessary for managing the class or making it more productive. Also, to receive a high score on a test of creative ability, a person’s responses must diverge from what is customary (Sternberg & O'Hara, 1999).

Research was conducted in psychology and cognitive science on the processes in which creativity may occur and as a result the sources and methods of being creative have been enumerated as 'Incubation' (e.g.: Smith, 2011), 'Convergent and divergent thinking', (e.g.: Guilford, 1967), 'Creative cognition approach', (e.g.: Ward, 1995), The Explicit–Implicit Interaction (EII) theory(e.g.: Helie S., & Sun R., 2010), 'Conceptual blending', (e.g.: Koe斯ler, 1964), 'Honing theory', (e.g.: Gabora, & Saab, 2011), and even to 'Everyday imaginative thought', (e.g.: Roese, & Olson, (1995).

2.3 Emotional Intelligence

EQ is defined by Mayer, Salovey, Caruso (2002) as the ability to perceive and express emotions, the ability to assimilate emotions in thought, to understand and try to help regulate emotions and feelings of self and others. Ebrahimi & Khoshmis (2016:138) perceive it as the ability in individuals to grasp their own emotions, inspire the individuals around them, and of course positively manage their relations. Freedman and Jensen (2005) explained EI as individual’s ability to choose one's thoughts, feelings, and actions artfully and consciously, in order to reach optimum outcomes in relationship with oneself and others.

EQ is explained as utilizing feelings, thoughts, along with intuition in order to solve problems. It also, based on an understanding of one’s own and others' emotions, includes the ability to influence actions and thinking (Geher, 2004; Brackett, Rivers, & Salovey, 2011). Olatoye, Akintude, and Yakasi (2010) emotional intelligence can be conceptualized as a set of acquired skills and competencies that predict positive outcomes at home with one’s family, in school and at work.

2.4. Creativity, Emotions and EQ

There are signs and theories indicating creativity's susceptibility to affective influences. Also, Furnham (2016) states that there seems, however, to be far fewer studies on EI and creativity; hence, the necessity of conducting the current study. Ison (2002) argued that cognitive activities are influenced by positive affects through three primary effects. Broaden-and-build model of
Fredrickson (2001) also, proposes that positive emotions like love and joy can broaden one's available repertoire of actions and cognitions which enhances creativity. Thus, it could be claimed that the number of cognitive elements available for association and the number of elements that are relevant to the problem increase by positive emotions. Also, numerous meta-analyses (e.g.: Baas et. al., 2008 of 66 studies about creativity and affect) confirm the relationship between positive affect and creativity.

Scientists in the related field have investigated the probable links between creativity and intelligence from the 1900s. Even similar to the Intelligence Quotient (IQ), efforts have been done to achieve a Creativity Quotient of an individual to assess an individual creative ability. The efforts could be divided to two main groups of Psychometric approach and Social-personality approach, yet they were not successful. Sternberg and O’Hara (1999) suggested 5 likely links between intelligence and creativity: Creativity is a subset of intelligence or vice versa, they are overlapping, they are parts of the same construct (with Emotions and more coincident set) or distinct constructs (disjoint sets). A study by Geher, Betancourt, and Jewell (2017) investigated the link between a standard measure of emotion-detection ability and spontaneous measures of creativity. They found a link between the two. There might not be found a burgeoning amount of research on teachers’ creativity and its relationship particularly Emotional Intelligence, thus the researchers of the current study investigated it in relation with emotions and EQ.

3. Methodology

The convenient sampling procedure was utilized to select participants to participate in the present correlational study. The profile of the subjects followed by explanations on the utilized instruments will be presented.

3.1 Participants

Subjects were 160 Iranian Language Institutes EFL teachers in Khorasan, Iran who filled 480 questionnaires; thus, each participant filled 3 questionnaires. The participants’ profile goes as follows: they were between 23 and 37 years old with 1 to 16 years of teaching experience. Out of 160 teachers, 84 were females and 76 males.

3.2 Instruments

Three questionnaires were utilized in the study followed by an interview with all the participants to ensure the reliability and honesty of their answers.

3.2.1 Emotions Questionnaire for Teachers (EQT)

Frenzel, Pekrun, and Goetz (2013) designed and validated Emotions Questionnaire for Teachers (EQT) (Appendix I) which is used to assess enjoyment, anxiety, and anger. Khajavi, Ghonsooly, and Hosseini Fatemi (2016) developed items for pride, shame, and boredom. Ranging from ‘strongly disagree’ to ‘strongly agree’ each emotion is measured in the questionnaire by four items on a six-point Likert type scale and the questionnaire has 24 items.

3.2.2 Bar-On Emotional Quotient Inventory (Bar-On, 2004)

The Emotional Quotient Inventory (EQ-i), EQ-360 & EQ-I: YV were developed to assess the Bar-On model of emotional-social intelligence. The EQ-I is a self-report measure (Appendix II) designed to measure a number of constructs related to EI. The EQ-i consists of 133 items and produces an overall EQ score as well as scores for the five composite scales and 15 subscales. The manual reports acceptable levels of reliability of the test. The Persian version of the test was applied because Dehshiri (2003) asserted that the Persian version of the test is both valid and reliable considering Iranian culture. The total reliability of the questionnaire was 0.82, estimated via Cronbach’s alpha.

3.2.3 Teacher Creativity Scale (ELT-CS)

This scale (ELT-CS) contains 63 items and each item is scored using a five-point Likert scale from 1 (always) to 5 (never). There are 7 subscales in ELT-CS: (1) originality and elaboration, (2) fluency and flexibility, (3) person, (4) press and materials, (5) motivation, (6) autonomy, and (7) brainstorming.

After filling the questionnaires, all the teachers were interviewed and the amount of care and honesty reflected in filling the questionnaires was closely examined, as there is always the possibility of lack of paying attention on the part of participants while filling the questionnaires.

4. Results

Results of the study are presented in the current section.
Figure 1: Schematic representation of t values of the path coefficient for EQ on Creativity and Emotions

Based on figure 2 EQ influences all the emotions components because t value for all of them exceeds 1.96. But EQ does not significantly influence creativity, as t value is 1.157 which does not exceed 1.96.

Figure 2: Schematic representation of path coefficient for EQ influence on Creativity and Emotions components (β)

Based on figure 2, EQ positively and significantly influences pride and enjoyment because the coefficients are positive for them. But EQ has a negative and significant influence on components of emotions as the coefficients are negative.

Based on figure 1 and 2, it could be claimed that EQ significantly and positively influences Enjoyment (β = .680, t = 4.656), Pride (β = .644, t = 3.956), yet it significantly and positively influences Anxiety (β = .611, t = 2.980), Anger (β = .686, t = 4.388), Shame (β = .638, t = 3.369), Boredom (β = .691, t = 4.172); furthermore, it was revealed that EQ does not significantly influence creativity (β = .089, t = 1.157).

Figure 3: Schematic representation of path coefficient significance of EQ components on Teachers’ Creativity (ELTs’ Creativity)

Figure 4: Path Coefficient values for EQ components influence on Creativity (β)

Based on figures 3 and 4, the results are presented in Table: 1

<table>
<thead>
<tr>
<th>EQ Components</th>
<th>t Value</th>
<th>β</th>
<th>Influence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optimism</td>
<td>0.019</td>
<td>0.230</td>
<td>No influence</td>
</tr>
<tr>
<td>Impulsiveness</td>
<td>0.053</td>
<td>0.198</td>
<td>No influence</td>
</tr>
<tr>
<td>Stress tolerance</td>
<td>0.107</td>
<td>0.137</td>
<td>No influence</td>
</tr>
<tr>
<td>Flexibility</td>
<td>0.096</td>
<td>0.746</td>
<td>No influence</td>
</tr>
<tr>
<td>Reality testing</td>
<td>0.259</td>
<td>0.791</td>
<td>No influence</td>
</tr>
<tr>
<td>Assertiveness</td>
<td>0.009</td>
<td>0.230</td>
<td>No influence</td>
</tr>
<tr>
<td>Emotional self-awareness</td>
<td>0.068</td>
<td>0.410</td>
<td>No influence</td>
</tr>
<tr>
<td>Empathy</td>
<td>0.007</td>
<td>1.596</td>
<td>No influence</td>
</tr>
<tr>
<td>Independence</td>
<td>0.029</td>
<td>1.102</td>
<td>No influence</td>
</tr>
<tr>
<td>Interpersonal relationships</td>
<td>0.149</td>
<td>0.488</td>
<td>No influence</td>
</tr>
<tr>
<td>Social relations</td>
<td>0.079</td>
<td>1.121</td>
<td>No influence</td>
</tr>
<tr>
<td>Self-Actualization</td>
<td>0.150</td>
<td>1.341</td>
<td>No influence</td>
</tr>
<tr>
<td>Happiness</td>
<td>0.167</td>
<td>0.611</td>
<td>No influence</td>
</tr>
<tr>
<td>Self-reflection</td>
<td>0.215</td>
<td>2.101</td>
<td>Influence</td>
</tr>
<tr>
<td>Problem solving</td>
<td>0.038</td>
<td>1.876</td>
<td>No influence</td>
</tr>
</tbody>
</table>

Table: 1 Summary of results in figure 1 & 2

Below, the correlation table: 2 shows that the first figure is correlation coefficient \( r \) the second one is significance level \( p \) in cases that \( p < 0.05 \) the relationship is significant, and it is marked by **.

**Table 2: Correlation coefficients among EQ and Emotions components**

<table>
<thead>
<tr>
<th>Emotions</th>
<th>Empathy</th>
<th>Happiness</th>
<th>Interpersonal</th>
<th>Self-Actualization</th>
<th>Impulsiveness</th>
<th>Stress-Tolerance</th>
<th>Flexibility</th>
<th>Reality-Testing</th>
<th>Assertiveness</th>
<th>Emotional self-awareness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anxiety</td>
<td>0.517</td>
<td>0.305</td>
<td>0.407</td>
<td>0.506</td>
<td>0.135</td>
<td>0.175</td>
<td>0.460</td>
<td>0.487</td>
<td>0.487</td>
<td>0.470</td>
</tr>
<tr>
<td>Anger</td>
<td>0.407</td>
<td>0.506</td>
<td>0.457</td>
<td>0.487</td>
<td>0.460</td>
<td>0.457</td>
<td>0.457</td>
<td>0.506</td>
<td>0.470</td>
<td>0.467</td>
</tr>
<tr>
<td>Pride</td>
<td>0.470</td>
<td>0.506</td>
<td>0.467</td>
<td>0.506</td>
<td>0.460</td>
<td>0.457</td>
<td>0.457</td>
<td>0.457</td>
<td>0.457</td>
<td>0.506</td>
</tr>
<tr>
<td>Shame</td>
<td>0.506</td>
<td>0.460</td>
<td>0.457</td>
<td>0.506</td>
<td>0.460</td>
<td>0.457</td>
<td>0.457</td>
<td>0.506</td>
<td>0.506</td>
<td>0.506</td>
</tr>
<tr>
<td>Boredom</td>
<td>0.506</td>
<td>0.460</td>
<td>0.457</td>
<td>0.506</td>
<td>0.460</td>
<td>0.457</td>
<td>0.457</td>
<td>0.506</td>
<td>0.506</td>
<td>0.506</td>
</tr>
<tr>
<td>Table</td>
<td>0.506</td>
<td>0.460</td>
<td>0.457</td>
<td>0.506</td>
<td>0.460</td>
<td>0.457</td>
<td>0.457</td>
<td>0.506</td>
<td>0.506</td>
<td>0.506</td>
</tr>
</tbody>
</table>

**Correlation is significant at the 0.05 level (2-tailed).**

There is a negative and significant relation between EQ and Enjoyment \( (r = -0.506, p < 0.05) \), EQ and Pride \( (r = -0.467, p < 0.05) \) a positive and significant relation between EQ and Anxiety \( (r = 0.457, p < 0.05) \), EQ and anger \( (r = 0.487, p < 0.05) \), EQ and shame \( (r = 0.470, p < 0.05) \), boredom \( (r = 0.574, p < 0.05) \).

**Table 3: Coefficient correlations among EQ components and Creativity**

<table>
<thead>
<tr>
<th>Creativity</th>
<th>Pearson Correlation</th>
<th>Sig. (2-tailed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Empathy</td>
<td>0.63</td>
<td>0.227</td>
</tr>
<tr>
<td>Independence</td>
<td>0.50</td>
<td>0.553</td>
</tr>
<tr>
<td>Interpersonal</td>
<td>0.048</td>
<td>0.547</td>
</tr>
<tr>
<td>Social-Relations</td>
<td>0.122</td>
<td>0.122</td>
</tr>
<tr>
<td>Self-Actualization</td>
<td>0.095</td>
<td>0.231</td>
</tr>
<tr>
<td>Happiness</td>
<td>0.06</td>
<td>0.451</td>
</tr>
<tr>
<td>Self-Reflection</td>
<td>0.220</td>
<td>0.003**</td>
</tr>
<tr>
<td>Problem Solving</td>
<td>0.096</td>
<td>0.223</td>
</tr>
<tr>
<td>Optimism</td>
<td>0.119</td>
<td>0.133</td>
</tr>
<tr>
<td>Impulsiveness</td>
<td>0.135</td>
<td>0.089</td>
</tr>
<tr>
<td>Stress-Tolerance</td>
<td>0.176</td>
<td>0.056</td>
</tr>
<tr>
<td>Flexibility</td>
<td>0.099</td>
<td>0.211</td>
</tr>
<tr>
<td>Reality-Testing</td>
<td>0.136</td>
<td>0.053</td>
</tr>
<tr>
<td>Assertiveness</td>
<td>0.059</td>
<td>0.454</td>
</tr>
<tr>
<td>Emotional self-awareness</td>
<td>0.102</td>
<td>0.199</td>
</tr>
</tbody>
</table>

**Correlation is significant at the 0.01 level (2-tailed).**

There is no significant relationship between ELT-CS and empathy \( (r = 0.063, p > 0.05) \), independence \( (r = 0.060, p > 0.05) \), interpersonal relations \( (r = 0.048, p > 0.05) \), social relations \( (r = 0.122, p > 0.05) \), Self-Actualization \( (r = 0.095, p > 0.05) \) happiness \( (r = 0.060, p > 0.05) \), Problem solving \( (r = 0.096, p > 0.05) \), impulsiveness \( (r = 0.135, p > 0.05) \) stress tolerance \( (r = 0.176, p > 0.05) \), flexibility \( (r = 0.099, p > 0.05) \), reality testing \( (r = 0.136, p > 0.05) \), assertiveness \( (r = 0.059, p > 0.05) \) emotional self-awareness \( (r = 0.102, p > 0.05) \) yet a positive and significant relationship between ELT-CS and Self-reflection \( (r = 0.220, p < 0.05) \) exists.

**5. Discussion**

The current study was done to examine the interplay between EQ, creativity and emotions. The researchers found no relationship between EQ and creativity, however, EQ components positively and significantly influence positive emotions and the reverse is true for negative emotions; EQ influences negative emotions, negatively and significantly.

The findings of the current study confirm the findings of Torrance, 1975; Richards, 1976; Runco & Albert, 1986; Wallach & Kogan, 1965. It could be explained that when creativity is assessed by performance tests, the correlation between is not high at all, supporting the model of disjoint constructs. As an example, an analysis of 388 correlations between creativity and intelligence demonstrated that the measures correlation varied from .06 to .21. A number of other studies found rather low correlations between intelligence and creative ability (Runco & Albert, 1986; Torrance, 1975; Wallach & Kogan, 1965), supporting the notion that these constructs are mostly distinct mental abilities and confirming the findings of the current study.

The results of the current study disconfirm the results of Cooper and Sawaf (1997) and Akinboye (2003) claimed that whenever individuals need to be creative, they tend to be in an emotional state.

Finding no significant relationship between EQ and creativity among EFL learners is supported by other parallel studies, although the current study investigated it among EFL teachers. Hashemi (2009) investigated EQ in relation to emotional creativity, and creativity and her findings implied no significant relationship among the students majoring in different subjects.

Also, regarding the links between Creativity and emotions, the results of the present research confirm the results of various meta-analyses like what Baas and
colleagues (2008) conducted on 66 studies about creativity and affect, which confirm the relationship between positive affect and creativity.

6. Conclusion

Emotions must be thought of as very powerful potentials in human being as love or hatred could do a lot of changes, and their role must not be neglected in the very important endowment of education. Although they were not found to be significantly related to creativity, their positive relationships exist as it was shown in the results section of the study. The current study shall be replicated across different age groups of learners with wider populations and even across different cultures and the relationship could be tested by other questionnaires. Provided that more promising results would be reached, more investment on Emotions and emotional intelligence enhancement seems to be necessary.

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