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PREFACE

Praise to Allah SWT who has given all his gifts and favors so that publishers are able to publish the Jurnal Penelitian dan Pembelajaran IPA (JPPI) volume 3, number 2, November 2017. Shalawat and greetings may be poured into Prophet Muhammad SAW, to his family, His companions and his followers until the end of time. The publication of this journal can't be separated from the support of various parties, from university to degree level, researchers from within and outside University of Sultan Ageng Tirtayasa (UNTIRTA), other partners and stakeholders. Do not forget to thank the Dean of Faculty of Teacher Training and Education (FKIP) and Head of Department of Science Education, who has provided support in the publication of this journal. We would also like to thank both the moral and material support given by all parties who provided the way to the publication of this journal. Hopefully this journal can be used and useful for the publication of research in UNTIRTA or outside UNTIRTA.

In volume 3 (three) number 2 (two) consists of 8 articles. All articles are the result of a research study. The research methods used by the authors include descriptive research, quasi experiment, correlation, classroom research and research and development (R & D). The proportion of articles from the University of Sultan Ageng Tirtayasa is less than 30% and more than 70% of articles from outside University of Sultan Ageng Tirtayasa

Finally the editorial board realizes that this journal is so far from perfect, constructive feedback and suggestions to publishers for future improvements so publishers hope that this journal can have better quality

Serang, November 2017

Editorial Board

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