1. Glutamate can activate the following receptors, EXCEPT:
   (A) Metabotropic glutamate receptors (mGluRs)
   (B) N-methyl-D-aspartate receptor (NMDAR)
   (C) Kainate receptor (GluK1-5)
   (D) GABAa receptor
   (E) Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid receptor (AMPAR)

2. Which of the following antidepressants is mainly acting on the NMDA receptor?
   (A) Fluoxetine
   (B) Trazodone
   (C) Ketamine
   (D) Mirtazapine
   (E) Agomelatine

3. Which of the following mechanisms involves in the late life depression?
   (A) Cytokines
   (B) Neurotoxicity
   (C) Serotonin
   (D) Ageing process
   (E) All of the above

4. In Taiwan, the prevalence of late life depression is estimated to be:
   (A) 43–50%
   (B) 2–4%
   (C) 13–26%
   (D) Less than 1%
   (E) More than 70%

5. Which of the following statement on the mindfulness is WRONG?
   (A) Mindfulness practice has been used to prevent depressive illness
   (B) In 1979, Kabat-Zinn created a mindfulness-based stress reduction (MBSR) program
   (C) Mindfulness-based stress reduction (MBSR) program includes sitting meditation, body scans, mindful yoga, and walking meditations
   (D) Mindfulness is not useful for physical disorders, such as chronic pain
   (E) Mechanisms of mindfulness might involve the glutamatergic system

Issue date: December 31st, 2019
Expiration date: March 31st, 2019

Volume 13 Issue 3 Answers:

1. (E)  
2. (E)  
3. (D)  
4. (E)  
5. (A)