Directions:

- 1. Section: Math251 007
- 2. Write your name with one character in each box below.
- 3. Show all work. No credit for answers without work.
- 4. This assessment is closed book and closed notes. You may not use electronic devices, including calculators, laptops, and cell phones.

Academic Integrity Statement: I will complete this work on my own without assistance, knowing or otherwise, from anyone or anything other than the instructor. I will not use any electronic equipment or notes (except as permitted by an existing official, WVU-authorized accommodation).

S_{1}	ignature:	

1. Evaluate the following.

(a) [4 points]
$$\int_{-1}^{3} \int_{0}^{3} \int_{0}^{2} xy^{2}z^{3} dz dy dx$$
.

(b) [3 points] $\int_0^1 \int_0^x \int_0^1 y e^{xz} dz dy dx$.

(c) [3 points] Evaluate $\iiint_E e^z dV$ where E is enclosed by the paraboloid $z = 1 + x^2 + y^2$, the cylinder $x^2 + y^2 = 4$, and the xy-plane.