



1. Regarding the cyst stage of *Entamoeba histolytica*, the correct statement is

- a. It is formed in extraintestinal tissues during invasive disease
- b. It is highly sensitive to gastric acid
- c. It develops only after stool is passed
- d. It is resistant to chlorine concentration found in potable water
- e. It contains eight nuclei before excystation

2. During excystation of a mature quadrinucleate cyst of *E. histolytica*, how many trophozoites are ultimately produced?

- a. Two
- b. Four
- c. Six
- d. Eight
- e. Sixteen

3. The immune response that plays major protective role against invasive amoebiasis is

- a. Cell-mediated immunity via activated lymphocytes
- b. Complement-mediated lysis
- c. Secretory IgA response
- d. IgM-mediated humoral response
- e. Persistent IgG production

4. The feature that differentiates *Entamoeba gingivalis* from *E. histolytica* is

- a. Presence of central karyosome
- b. Formation of quadrinucleate cyst
- c. Habitat in the large intestine
- d. Absence of cyst stage
- e. Ingestion of leukocytes

5. Which pathological mechanism is primarily responsible for the formation of flask-shaped ulcers in intestinal amoebiasis?

- a. Proteolytic enzyme secretion by trophozoites
- b. Autoimmune reaction against mucosa
- c. Mechanical obstruction of colonic lumen
- d. Immune complex deposition
- e. Direct toxin release in bloodstream