

**Professional Values and Ethics (HU-7801)**

**Marks: 35**

**Time: 2hrs.**

Answer question number 1 and any two from the rest. Numbers in the parentheses denotes marks allotted for each question.

**1. Case Study:**

*A Starter:* Healthy food is expensive and telling people to eat organic, local food is elitist. Have you heard that argument before?

*One Side Dish:* It's true. Healthy, organic, local food is expensive. Calorie for calorie, you get more for your money at a fast food drive-thru than at a farmer's market. And the fast food will be cooked and ready to eat, whereas you might need to take your fresh, organic produce home to cook it.

*The Main Course:* Now, you might say, that's only a short-term calculation. Today, a Rs. 50 burger, fries, and large soda looks like a better deal than a few ounces of spinach, a handful of dried beans, and a bunch of carrots for the same price. But that overlooks the health consequences of either meal. One of these meals, if eaten regularly, will land you in the hospital someday. The other won't.

*Fizzy Dessert:* Factor the costs of medical care needed to treat diet-related chronic illnesses like heart disease and diabetes into the equation, not to mention the quality of life problems. Can you put a price tag on a year of your life? How about endless hospital visits? Suddenly, the spinach, beans, and carrots look like a better deal.

*A stale belching:* However, there is a catch. Majority of the people in India cannot even think to touch healthier food on a regular basis in their meals. They simply go half fed and die malnourished in a country that takes pride in its burgeoning biotech JV.

*And You:* Articulate your position keeping in mind the state of *food security* in India. [15]

2. Do you think *development* is a more rational term than *growth* in economic sense? Illustrate in the context of India's growth story. [3+7]

3. Depict the role played by Vested Interests Groupings (VIG) in the development of technology in a democracy. Draw a flow chart in support of your argument. [5+5]

4. The dynamics of Science and Technology (S&T) is closely entwined with Civilization's inquisitiveness. - Elucidate. [10]

5. Why Satyendra Dubey, the slain IIT engineer, is still living amongst us? [10]