

MET 352 Engineering Design
Department of Materials and Metallurgical Engineering
South Dakota School of Mines and Technology

Short Response 7: Feb 6, 2019

Answer any one question.

Only the first question answered will be graded.

1. Cite two of the four selves.

Key: Safekeeping, Rational, Feeling, Experimental

OR

2. What are the steps to concept generation. Check all that apply.

- a) Verification
- b) Perturbation
- c) Rationalization
- d) Incubation
- e) Inspiration
- f) Preparation
- g) Evaluation

Key: f, d, e, a

OR

3. Cite four techniques of Concept Generation.

Key: • Brainstorming • Active Search • Role Playing • Attribute List • Collaborate • Concrete Stimuli • Critique • Documenting • Expert Opinion

• Empathy/User Research • Encompass • Passive Search • Forced Analogy • Incubate • Prototyping • Reflect • Sketching • Socializing • Storyboarding