P P SAVANI UNIVERSITY P P SAVANI SCHOOL OF ENGINEERING

3rd Semester of B Tech Examination (2nd Internal Exam)

Subject: Critical Thinking, Creativity and Decision Making (SEPD2010) Branches: CE/IT/CV/ME/CH

[Date: 24/09/2018, Monday]

[Time: 11 A.M. to 12 Noon]

[Total Marks: 30]

Instructions:

- Figures to the right indicate full marks.
- Use of scientific calculator is allowed.
- Draw neat and clean drawings & Assume suitable data if necessary.

Answer the following: 0.1

(05)

- 1. A man every day goes to office 2 hours late and comes after 2 hours. he goes to office by lift upto 9th floor and more 3 floors goes by walking but while returning he comes by lift from 12th floor, why?
- 2. Mr. Mahesh went to the Market with his Dog. He rode on a horse to the Market, yet walked. The horse's name was victory and dog was from South Africa. What is the Name of the Dog that went to the Market?
- 3. If I give you 4 tablets which contain 2 for fever and 2 for cold. All 4 have same size, shape and color, No cover. You have to take 1 cold and 1 fever tablet right now. How will you choose correctly?
- 4. If i remove one from eleven it becomes Ten and if i remove one from nine also becomes Ten. How?
- 5. If you write numbers from 1 to 100, how many 9s you will write?
- Q.2.A What is the relation between Socratic Questioning and Conceptual Thinking? Explain with apt examples.
- What is Conceptual Thinking? What qualities will make you a Conceptual (05) Q.2.B Thinker? As an Engineer, how it will help you in your career?
- From the situation given below, identify the problem(s) and suggest Q.3possible solutions. What will be your decision?

You are part of a team that is preparing a presentation for a major conference. (07) The final meeting on the presentation is this morning at 9 a.m. There are four participants: Mayra, Juli, Janak and you. You arrive in the meeting room at 8:55 and Janak is there. Juli arrives at 9:02. You continue to wait for Mayra to arrive so you can begin. No one has heard from her. You are getting irritated and feeling anxious. At 9:10 you can feel your muscles tightening and breathing increasing. Janak and Juli are visibly angry and talking about how stressed they are. You NEED to get this done today. At 9:20, all of you are fidgeting and decide to begin. At 9:23, Mayra arrives with no apology or explanation.

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- Q.4.A Research is the heart of Engineering discipline. Considering the statement valid, (08) answer the following questions.
 - 1. What do you mean by research?
 - 2. How you will justify the above statement?
 - 3. Does critical thinking help in Research?
 - 4. Which qualities are required by a Researcher?
 - 5. According to you, what qualities you need to imbibe to be successful in your field?
 - Q.4.A Engineers play a very important role in every walk of life. They convert knowledge (08) of basic sciences into products. They are versatile minds who build bridges between sciences, technology and society.
 - Shri Pranab Mukherjee on the occasion of the Engineers Conclave-2013 Elaborate the above extract of speech with proper justification and examples of your respective field.