

P P SAVANI UNIVERSITY

Third Semester of B. Sc (Fire and Safety) Examination

Feb - March 2020

SEPD 2010 Critical Thinking, Creativity, and Decision Making

04.03.2020, Wednesday

Time: 12:30 a.m. To 03:00 p.m.

Maximum Marks: 60

Instructions:

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.

SECTION - I

- Q - 1** **Fill in the Blanks (Any Five)** **[05]**
- (i) Critical thinking is the ability to think _____ about what to do or believe.
(a) rationally (b) arrogantly (c) irrationally (d) decisively
- (ii) An argument is said to be valid if the conclusion is _____.
(a) logically true (b) based on opinion (c) based on feelings (d) logically untrue
- (iii) A statement of fact can be proved TRUE or FALSE using _____.
(a) standard knowledge (b) opinions (c) thoughts (d) feelings
- (iv) Good critical thinking is _____.
(a) systematic (b) unorganised (c) unviable (d) not feasible
- (v) Critical thinkers _____ jumping to conclusions.
(a) like (b) avoid (c) are always (d) dislike
- (vi) Critical thinking can help us in making _____ personal decisions.
(a) wise (b) quick (c) rational (d) foolish
- (vii) Lack of awareness/practice of rational (logical) thinking _____ Critical Thinking.
(a) helps (b) boosts (c) hinders (d) assists
- Q - 2 (a)** Distinguish between Fact and Opinion. (Fact Vs. Opinion) **[05]**
- Q - 2 (b)** What is Critical Thinking? How it is important in your life and society? **[05]**
- OR
- Q - 2 (a)** What are the factors that hinder Critical Thinking? **[05]**
- Q - 2 (b)** What is Creative Thinking? What are the key traits of a Creative Individual? **[05]**
- Q - 3 (a)** What are the types of thinking? Write a note on any 2 of them. **[05]**
- Q - 3 (b)** Write a short note on Problem Solving. **[05]**
- OR
- Q - 3 (a)** What are the traits of a Critical Thinker? **[05]**
- Q - 3 (b)** How to practice Critical Thinking? In other words, what are the steps to practice Critical Thinking? **[05]**
- Q - 4** **Attempt any one.** **[05]**
- (i) Explain in detail the System of Critical Thinking with the help of an example.
- (ii) Explain in detail the Linear Model of Critical Thinking (Description, Analysis, Evaluation) with an example.

SECTION - II

- Q - 1** **Fill in the Blanks (Any Five)** **[05]**
- (i) The term problem-solving refers to the _____ process that people go through to discover, analyze and solve problems.
(a) mental (b) physical (c) emotional (d) spiritual
- (ii) Creative Thinking is a way of looking at problems or situations from a fresh perspective that suggests _____ solutions.
(a) ordinary (b) unorthodox (c) orthodox (d) quick
- (iii) Problem exists whenever _____ are not being met.
(a) desires (b) wants (c) goals (d) objectives
- (iv) Moral Reasoning is a systematic approach to making _____ decisions.
(a) ethical (b) emotional (c) immoral (d) unethical
- (v) The process of reasoning from premises to conclusion is known as _____.
(a) Inference (b) Installation (c) Instrumentation (d) Immersion
- (vi) _____ has been proved by scientific experimentation.
(a) fact (b) opinion (c) view (d) thought
- (vii) Creative Problem Solving is a method for approaching a problem or a challenge in an _____ and innovative way.
(a) imaginative (b) emotional (c) tactical (d) strategic

Q - 2 (a) Write a short note on Creative Thinking. **[05]**

Q - 2 (b) Write a short note on Problem Solving and Decision Making. **[05]**
OR

Q - 2 (a) What are the key traits of a creative individual? **[05]**

Q - 2 (b) Write a short note on Moral Reasoning. **[05]**

Q - 3 (a) Write a short note on Critical Thinking in Moral Reasoning. **[05]**

Q - 3 (b) Write a short note on Socratic Questioning. **[05]**
OR

Q - 3 (a) What are the types of thinking? Write a note on any 2 of them. **[05]**

Q - 3 (b) What is Problem Solving? Explain the steps involved in Decision Making. **[05]**

Q - 4 **Attempt any one.** **[05]**

(i) You're on a hill. You have a rifle and perfect aim. You see at a distance a train out of control and flying at these four people.

- You somehow know that it will kill all of them.
- You also see a fat man standing sort of near the tracks.
- You realize that if you shoot him from where you are, he'll fall on the tracks, his mass will stop the train, and the other four will be saved.
- Nobody sees you, so you don't have to worry about being tried for murder. Except, of course, in your mind.

So, do you shoot the fat man? He wouldn't have died unless you shot him

(ii) A pregnant woman leading a group of people out of a cave on a coast is stuck in the mouth of that cave. In a short time high tide will be upon them, and unless she is unstuck, they will all be drowned except the woman, whose head is out of the cave. Fortunately, (or unfortunately,) someone has with him a stick of dynamite. There seems no way to get the pregnant woman loose without using the dynamite which will inevitably kill her; but if they do not use it everyone will drown. What should they do?
