

P P SAVANI UNIVERSITY

Fifth Semester of BPT Examination

January 2020

SEPD2010 Critical Thinking, Creativity and Decision Making

25.01.2010, Saturday

Time: 09:00 am To 12:00 pm

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.
4. Use of scientific calculator is allowed.

SECTION - I

Q - 1 Match the following: (Any Five) [05]

- | | | |
|-------|-------------------------|---|
| (i) | Open Ended Questions | A. Reveal Personal Traits |
| (ii) | Outcome-Based Questions | B. Provoking Elaborated Answers |
| (iii) | Hypothetical Questions | C. To Reflect on the Process |
| (iv) | Reflective Questions | D. Created Scenarios |
| (v) | Structural Questions | E. Approach from generalities to specifics |
| (vi) | Deducting Reasoning | F. Process of breaking the concept into parts & relate to one another |
| (vii) | Conceptual Thinking | G. Helps Understand the Process |

Q - 2 (a) Define **Critical Thinking**. Elaborate its need and importance in your profession. [05]

Q - 2 (b) Critically justify the statement: "*A physiotherapist has the brain of a scientist, the heart of the humanist, and the hands of an artist.*" [05]

OR

Q - 2 (a) Critically justify the statement: "*Education changes the way a person looks at the world.*" [05]

Q - 2 (b) "*War is not the answer, for only love can conquer hate*". How far do you agree with the statement? Assert your arguments to support your point of view. [05]

Q - 3 (a) Explain various levels of **Bloom's Taxonomy** in the light of its applicability in the field of physiotherapy. [05]

Q - 3 (b) Define **Deductive** and **Inductive Reasoning** and explain them with examples. [05]

OR

Q - 3 (a) A 55-year-old man is admitted to the emergency ward of the Surya Hospital. His History of Present Condition states that he has been feeling unwell for the last 3 days with increasing cough and breathlessness and difficulty clearing her sputum. What type of questions will you ask to the patient? Make a list of 10 different questions keeping in mind her present condition. [05]

Q - 3 (b) You see a new ad for a pill that enhances the body's natural ability to concentrate while driving. The ad features a famous race car driver who races a track he has never raced on both before and after taking the pill. He does much better the second time after taking the pill. The ad concludes that taking this pill will enhance your driving abilities. What type of thinking is used? How? Give as many specific reasons as possible why the evidence given does or does not convince you of the validity of the claim. [05]

Q - 4 Attempt any one question. [05]

(i) Give five examples of inductive thinking.

(ii) Make a list of three Outcome-Based and Hypothetical questions each.

SECTION - II

- Q - 1** **Select the most appropriate answer from the given options: (Any Five)** **[05]**
- (i) The word 'critical' is derived from the two Greek words 'Kriticos' and _____.
A. Criterion B. Kriterion
C. Kriterio D. Criterio
- (ii) 'Sons and Daughters of educated parents are bright and sincere.' Rahul and Rekha's parents are highly educated, therefore they (Rahul & Rekha) are too bright and sincere. What sort of thinking is used in this statement?
A. Moral B. Inductive
C. Deductive D. Critical
- (iii) _____ Questioning is the disciplined practice of thoughtful questioning that enables the scholar/student to examine ideas and to determine the validity of those ideas.
A. Socratic B. Structural
C. Reflective D. Rapid
- (iv) "Use of gained knowledge in new ways" is the _____ stage of Bloom's Taxonomy.
A. First B. Second
C. Third D. Fifth
- (v) Study this series: 7.9, 9.2, 10.5, 11.8, _____. What number should come next?
A. 12 B. 12.1
C. 13.1 D. 13
- (vi) A Monkey climbs 30 feet at the beginning of each hour and rests for a while when he slips back 20 feet before he again starts climbing in the beginning of the next hour. If he begins his ascent at 8.00 a.m., at what time will he first touch a flag at 120 feet from the ground?
A. 4 p.m. B. 5 p.m.
C. 6 p.m. D. 8 p.m.
- (vii) If 'JANUARY' is 'JULY', 'SEPTEMBER' is 'SEPTEMBER', 'FEBRUARY' is 'AUGUST' and 'MARCH' is 'MAY' then 'AUGUST' is?
A. June B. July
C. August D. September
- Q - 2 (a)** What is Socratic Questioning? Discuss the types of Socratic Questions in brief. **[05]**
- Q - 2 (b)** **Short Note:** First Order Vs Second Order Thinking **[05]**
- OR**
- Q - 2 (a)** Explicate the concept and importance of Problem Solving and arrange the following **[05]**
"Steps of Problem Solving" in order followed by brief explanation of each step.
* Determining what to do. * Evaluating Progress * Analyzing the Problem
* Defining the Problem * Implementing the plan with fidelity
- Q - 2 (b)** **Decision Making is a crucial skill for effective management and leadership:** Justify the **[05]**
statement following the description of **concept and process** of Decision Making.
- Q - 3 (a)** A train with broken brakes is speeding towards a fork in the tracks. On the left, there is a **[05]**
woman crossing with her two children; on the right, there is a man doing routine
maintenance on the tracks. **If you are the driver of this train, which side will you drive the
train towards?**
- Q - 3 (b)** **Moral judgments should be defensible through Reasoned Analysis:** Explain the statement **[05]**
along with the **process** of Moral Decision Making.
- OR**
- Q - 3 (a)** Study the following paragraph and frame 02 Open Ended, 02 Outcome-Based, **[05]**
02 Hypothetical Questions, 02 Reflective Questions and 02 Structural Questions out of it.
There is no gainsaying the fact that the demand of physiotherapy is enormous and its
specialized fields are going to increase in the next decades. Along with that, the

consumers/patients depending on physiotherapy are also going to rise because of life style diseases. Physiotherapy will open door for you as self-employed professional and earning will be depend on your quality of treatment, your skills and execution of your academic learning . Physiotherapy is a branch in allied health science which will demand two things from you first humanitarian attitude towards patients and second art of how to apply psychology on patients because these things are important and play major role in fast recovery of patients. Here are some promising fields for the students of physiotherapy.

1. Geriatric Physical therapy: According to world confederation of physical therapy, global population by 2050 is 9.6 billion people among that 2 billion aged 60 and above and 400 million 80 and above. Here comes the scope of Geriatric Physical therapy in the next few decades, in terms of healthy aging.
2. Sports physical therapy: As people are more enjoying playing sports and games as part of their hobby and profession, fitness and injury prevention will be the utmost aim of individuals & sports professionals.
3. Occupational Health Physiotherapy: It is an upcoming field of great scope, because of emergence of health care ergonomics and industrial revolution around the globe. Safety of employees become utmost important, to reduce absenteeism, fatal accidents, compensation and to increase productivity. Therefore, industrial therapist will be mandatory in all national and multinational companies in the next few years.
4. Oncology Physiotherapy: Cancer death & complications related to the disease is getting higher day by day. There are nearly 8.2 million deaths in 2012 and the new cases is expected to increase by 70% over the next two decades (Source -WHO). Therefore, Physiotherapy in oncology is a specialization to look forward in the next few years.
5. Robotics in Physiotherapy: Technological advancement can bring new instruments based on robotics, which ease the efforts of patients & physiotherapist in his day to day practice. So, a person interested in biomedical instrumentation and physics can think off the hidden potentials behind those two fields

Q - 3 (b) Jigar works in a large warehouse and he always wears his safety equipment. His coworker, Mahesh, always forgets his safety equipment. He often asks to borrow Jigar's equipment when Jigar isn't using it. Last week, Mahesh broke Jigar's safety glasses, and yesterday he lost Jigar's back belt. Jigar doesn't want Mahesh to get hurt, but he doesn't want to loan Mahesh his equipment. **[05]**

1. How should Jigar handle the situation?
2. What can he say to Mahesh?

Q - 4 **Write a Short Note on Any One of the following:** **[05]**

- (i) Objectives and Skills Needed for Critical Thinking
- (ii) Hypothetical Vs Reflective Questions