

RA2211026030005



SRM Institute of Science and Technology
Delhi- NCR Campus, Modinagar
 Academic Year: 2022-23 (odd)

Test: Theory CLA-3

Course Code & Title: 21GNH101J/ Philosophy of Engineering
Year & SEM: 1st & 1st

Date: 23/12/2022 AN

Duration: 01:40 Hrs

Max. Marks: 50

Part - A (MCQ) - 10*1= 10 Marks - Answer all					
Q.No	Question	Marks	CO	PO	BL
1	A hypothesis is constructed and tested in _____ a. Scientific method b. Engineering design method c. Architecture design method d. Software design method	1	4	12	II
2	ADDIE stands for a. Analytics, Design, Development, Implementation, and Evaluation b. Analysis, Design, Development, Implementation, and Evaluation c. Analysis, Development, Design, Implementation, and Evaluation d. Analytics, Development, Design, Implementation, and Evaluation	1	4	1	
3	CDIO stands for a. Concept, Design, Implement and Operate b. Conceive, Draw, Implement and Operate c. Conceive, Design, Implant and Opt d. Conceive, Design, Implement and Operate	1	4	1	I
4	Which one is not relevant to Conceive phase. a. Defining Customer needs b. Enterprise Strategy and regulations c. Business Plan d. Design and Drawings	1	4	1	II
5	A prototype is created in which phase of ADDIE model. a. Analysis b. Design c. Development d. Implementation	1	4	1	II
6	What is the final stage of the Engineering Design Process? a. Prototype b. Test And Evaluate c. Communication of Results d. Solution	1	4	12	I
7	Axiology is related to a. Design b. Ethics c. Method d. Testing	1	5	1	II

8	The 3Es stand for a. Energy, economic and ethical b. Equality, economic and ethical c. Environmental, economic and ethical d. Environmental, equity and ethical	1	5	1	II
9	What is the first stage of the Engineering Design Process? a. Prototype b. Define the Problem c. Communication of Results d. Solution	1	5	1	II
10	_____ is not an operational factor in system design. a. Integrity and Consistency b. Performance and Scalability c. Product prototype d. Security	1	4	1	II
Part – B (10*4)					
11	Difference between scientific method and engineering design method/process. or Explain the design process.	10	4	4	III
12	What do you mean by ADDIE? Explain it with a neat sketch and example. or Discuss the CDIO process. Make a CDIO process diagram for an engineering application of your choice.	10	4	4	III
13	Explain System design and also discuss how it is different from product design. or What do you mean by Ethics? Discuss the Engineer's Code of Ethics in detail.	10	4/5	6	III
14	Write a detailed discussion on sustainability with 3Es. or Explain the Engineer's role in achieving sustainable development.	10	5	6	III

Name and Signature of Course Coordinator: Dr. Vikas Goyal