



education

Department:
Education
PROVINCE OF KWAZULU-NATAL

**NATIONAL
SENIOR CERTIFICATE**

GRADE 11

PHYSICAL SCIENCES P2 (CHEMISTRY)

COMMON TEST

SEPTEMBER 2019

MARKS: 150

TIME: 3 hours

**This question paper consists of 11 pages, 3 data sheets
AND a special answer sheet.**

Grade 11o Past Question Papers

Lei Huang



Grade 11o Past Question Papers:

From Industry 4.0 to Industry 5.0 Allam Hamdan, Arezou Harraf, Amina Buallay, Pallvi Arora, Hala Alsabatin, 2023-07-31

This book aims at bringing together global researchers to generate thought on how this transition from Industry 4.0 to Industry 5.0 could make a difference to the globe for larger good. The collaboration and interaction between man and machine has given rise to Industry 5.0. With the prime objective of Industry 5.0 to create a benefit for the human beings while tapping on to the advantage of Industry 4.0 in no case does it replace what has already been achieved. In fact it brings to light what can be done in order to make life better. While Industry 4.0 offered extraordinary technological advancement Industry 5.0 reasons out that technology alone is not sufficient to answer everything or provide a solution but it is an amalgamation of both machine and human interaction to create that difference. In fact with the impact of widespread digitalization that has led to dehumanization of the industrial makeup the interest of global researchers has increased toward mapping how the human creativity and brainpower can be reconciled with the intelligent systems that can enhance process efficiency. Industry 5.0 has touched upon some of those key domains which are of much concern and debate globally including resilience both business and cyber environment and sustainability diversity and inclusion values and ethics vision and purpose circular economy understanding the human machine collaboration and the human touch in the production process. This transition that has taken place in moving from Industry 4.0 to Industry 5.0 has essentially created a need to pay cognizance to the role of human in the process which creates an enhanced focus toward the right kind of skills and competencies identification of training and developmental needs talent acquisition and management safety and wellbeing future of work as well as hybrid working models. Undeniably the pace with which Industry 4.0 has been accelerating has bypassed the first three industrial revolutions which is definitely a consequence of the fast introduction of new and cutting edge technologies. While organizations are already in analyzing the context mapping this transition and the flow of activities from Industry 4.0 to 5.0 is gaining attention as Industry 4.0 lacked personalization and customization. This co-existence of man and machine creates a pathway for newer prospects and opportunities to emerge and expand possibilities of personalization with the empowerment of human in the production process. This lays the foundation for this book. This book adopts a forward looking approach by bringing in research and contributions that facilitate in mapping the consequences and solutions for man machine across industries. This book serves as a guide not just to academia but also to the industry to adopt suitable strategies that offer insights into global best practices as well as the innovations in the domain.

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