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SOME BASIC CONCEPTS OF CHEMISTRY

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1.0 PROMINENT SCIENTISTS
Joseph Louis Gay-Lussac 16 December 1778-9 May 1850

Gay-Lussac was a French Chemist and Physicist. He is known mostly for two laws related to gases and for his work on alcohol-water mixtures. This led to the Gay-Lussac degrees used for measuring strength of alcoholic beverages in many countries.

1. In 1802, Gay-Lussac formulated the gas law stating that, for a given mass of a gas, at constant pressure, volume increases linearly with absolute temperature.
2. In 1804, he made a hot air balloon and reached to the height of 6.4 kilometers. He collected samples of air at different heights and recorded temperatures and moisture contents.
3. In 1805, he discovered that composition of atmosphere does not change with increasing altitude. He also discovered that water is formed by two parts by volume of hydrogen and one part by volume of oxygen.
4. In 1821, Gay-Lussac developed new versions of burette and pipette used for titrations.

1.1 INTRODUCTION
Amedeo Avogadro (9 August 1776-9 July 1856)

Amedeo Avogadro was an Italian scholar. He is most noted for his contribution to molecular theory, including the Avogadro's law. In tribute to him, the number of elementary entities, (atom, molecules,

ions or other particles.) in 1 mol of a substance, 6.022×10^{23} is known as Avogadro number.

1. In 1811, he published an article in French journal on determining the relative masses of the elementary particles of bodies and proportions by which they enter combinations.
2. In 1821, he published a research paper titled "New considerations on the theory of proportions and on determination of the masses of atoms".
3. In 1841, he published his work in 4-volumes. Four years after his death, scientific community could understand importance of his work.

Avogadro's work was brought into light after his death by Cannizzaro in the year 1858. It was only in 1911, Avogadro's contribution to chemistry was recognised.

"Anna, vashra ani nivara" in Marathi language means food, clothes and shelter. Those were the basic needs of the people in the past. Now in the days of globalisation, the demands are modified and are ever increasing. Some common demands are listed below:

1. Food : Now we need good quality, tasty and mouth watering, sufficient and hygienic food for the entire population of India and also for our world. This is possible if we manufacture good quality fertilisers and also insecticides. In last forty five years India's population is doubled and it has crossed 110 crores. The population will now be doubled in another twenty five years and demand for food will increase exponentially. It is the truth that about 45 years ago,

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we have learned more knowledge on the subject.

IIC Principles and Practice of Insurance Sample Questions (Q86-Q91):

NEW QUESTION # 86

Which principle of insurance requires that an insured must have a financial interest in the subject matter of insurance at the time of loss?

- A. Indemnity
- **B. Insurable interest**
- C. Utmost good faith
- D. Subrogation

Answer: B

Explanation:

Comprehensive and Detailed Explanation:

The principle of insurable interest is fundamental to insurance contracts and is essential for the validity of an insurance policy. Insurable interest exists when the insured stands to suffer a financial loss if the insured property is damaged, destroyed, or if the insured person is injured or dies. This principle ensures that insurance contracts are not used for speculation or gambling, which would be contrary to the purpose of insurance.

According to established insurance principles reflected in the Insurance Institute of Canada's Principles and Practice of Insurance, insurable interest must exist at the time of loss for property and liability insurance. For life insurance, insurable interest must exist at the time the policy is taken out. Without insurable interest, an insured would have no legitimate reason to purchase insurance, and the policy could be declared void.

For example, a homeowner has an insurable interest in their house because they would suffer a financial loss if it were damaged by fire. Similarly, a business has an insurable interest in its inventory and equipment. In contrast, a person cannot insure a stranger's property because they would not experience a financial loss if that property were damaged.

This principle protects insurers from moral hazard and ensures that insurance remains a mechanism for risk transfer and financial protection, rather than a means of profit. Therefore, the correct answer is B. Insurable interest.

NEW QUESTION # 87

Which insurance industry impact is an example of a surety?

- A. A bank issuing a mortgage on an insured building
- B. A doctor providing malpractice-covered services
- C. A manufacturer accepting shipping risks that are insured
- **D. A developer advancing funds to a building contractor for a guaranteed project**

Answer: D

Explanation:

A surety bond is a three-party contract in which the surety guarantees the performance of a contractor (principal) for the benefit of a third party (obligee). In construction, a developer may require a contractor to post a performance bond ensuring the project will be completed as agreed. This is the classic example of suretyship.

Option A is banking, not surety.

Option B is liability insurance, not a three-party guarantee.

Option D involves marine or cargo insurance, not a performance guarantee.

Thus, C correctly describes a surety situation.

NEW QUESTION # 88

Which statement best explains the concept of utmost good faith?

- A. Implies the ability to void an insurance policy
- B. Is a lack of conduct that exceeds mere negligence
- **C. Requires a high standard of honesty**
- D. Is a requirement of all legal contracts

Answer: C

Explanation:

The principle of utmost good faith (uberrima fides) is fundamental to all insurance contracts. It requires a higher standard of honesty than ordinary commercial agreements because the insurer must rely on the applicant to disclose all material facts that could affect the underwriting decision. The insured has superior knowledge of the risk, and failure to disclose material information can jeopardize the insurer's ability to assess the exposure properly.

Option B is incorrect because utmost good faith is not required in all contracts-only in specific types where one party must rely heavily on the full disclosure of the other, such as insurance. Option C is partially related-breaches can lead to policy voidance-but that is a consequence, not the definition. Option D is incorrect because utmost good faith refers to the presence of elevated honesty, not the absence of negligence.

Therefore, the best explanation is A: Requires a high standard of honesty.

NEW QUESTION # 89

Jack is a first-time homeowner. How can he mitigate his risk?

- A. Purchase many different kinds of goods
- B. Purchase insurance
- C. Increase his volume of risk
- D. **Decrease his volume of risk**

Answer: D

Explanation:

Risk mitigation refers to reducing the frequency or severity of potential losses. A first-time homeowner can mitigate risk by taking proactive measures such as installing smoke alarms, securing doors and windows, maintaining the property, or eliminating hazards. These actions directly decrease the homeowner's volume of risk by reducing the probability of a loss or limiting its potential impact. Option A-purchasing insurance-is not risk mitigation; it is risk transfer, where the financial consequences of loss are shifted to an insurer. Insurance does not reduce the likelihood of loss; it only provides compensation after loss.

Option B is the opposite of mitigation.

Option D is irrelevant to risk management.

Thus, the correct answer is C: Decrease their volume of risk.

NEW QUESTION # 90

Mark was involved in an at-fault accident one year ago. As there was minimal vehicle damage and no apparent injuries, Mark settled with the third party and did NOT report the accident to his insurer. Today, Mark has been served a statement of claim alleging long-term injuries. Which action will Mark's insurer MOST LIKELY take, and why?

- A. Deny the claim because a limitation period is in effect
- B. Pay the claim because Mark's current policy must respond to a liability claim
- C. **Deny the claim because Mark had forfeited the right of recovery**
- D. Pay the claim because accident benefit coverages have no expiration date

Answer: C

Explanation:

Insurance policies require the insured to report all accidents promptly, even when they appear minor. By settling privately and failing to notify the insurer, Mark violated a fundamental policy condition. This breach is significant because it prejudices the insurer's rights: the insurer lost the opportunity to investigate, defend, or control settlement negotiations. Under the statutory conditions (especially for automobile insurance), failure to report may result in the forfeiture of the insured's right to recovery.

Option A is incorrect because limitation periods vary and do not automatically cause a denial; moreover, the issue is the insured's breach, not limitation law. Option C is incorrect because this is a liability claim, not accident benefits. Option D is incorrect because the current policy does not automatically cover past unreported accidents, and coverage can be denied if the insured breached statutory reporting conditions.

Thus, the insurer will most likely deny coverage because Mark forfeited his rights by failing to report the loss, making B correct.

NEW QUESTION # 91

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