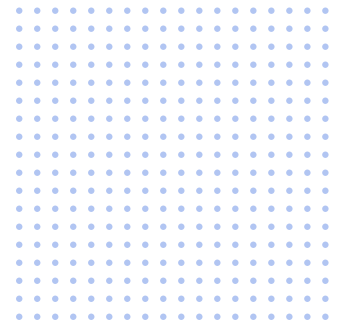




FOR CA FINAL EXAM PREPARATION

CA Final 2019 Question Paper · Paper 6A Risk Management

EXAM	YEAR	TYPE	SUBJECT
CA Final	2019	Question Paper	Paper 6A Risk Management
DATE			
November 2019			

6102 AON

Final New P 6A

Roll No.

Total No. of Questions – 5

Final New Syllabus
Paper - 6 A
Risk Management

Total No. of Printed Pages – 24

Time Allowed – 4 Hours

Maximum Marks – 100

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NOV 2019

Answer to questions are to be given only in English except in the case of candidates who have opted for Hindi Medium. If a candidate who has not opted for Hindi medium, his/her answers in Hindi will not be valued.

The Question Paper comprises five case study questions. The candidates are required to answer any four case study questions out of five.

Answers in respect of Multiple Choice Questions are to be marked on the OMR

Answer Sheet only.

Answer to other questions to be written on the descriptive type answer book.

Answer to MCQs, if written in the descriptive type answer book will not be evaluated. Candidates may use calculator.

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Marks**CASE STUDY : 1**

Environmental concerns and various issues relating to availability of oil have made it necessary for the automobile sector to adopt battery operated/electric technology. ABC Scooters Limited decided to commence production of battery-operated electric scooters under Startup India Programme from April, 2019. The said company is a two-wheeler manufacturing company in Maharashtra. It was formed in the year 1997. It was manufacturing and selling 125-cc gearless scooters. The project technical manager of the company studied the feasibility of the project and noted the following :

- The battery-operated electric scooter falls under the category of Battery Electric Vehicle (BEV). It will get the power to run from battery packs. It will not have an internal combustion engine or a fuel tank.
- It has a choice to use either of the two types of batteries (i) nickel metal hydride (NiMH) (ii) Lithium-ion (Li-ion)
- The usage of Li-ion batteries has become the industry standard and is preferred over NiMH batteries.
- The vehicle can be fitted with an in-built wireless connectivity, GPS navigator, digital console and mobile charger.
- Data such as the speed of the vehicle, mileage, time taken to charge, the condition of the battery and health of the engine could be collected and shared with the central sever through an application installed in the user's mobile. Such data would be automatically analyzed by software in the company's server and which in turn would give automated response to the users on various parameters.

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- The mobile application would also provide the user information about the availability of nearby charging station, facility to reserve the time for charging and to make online payment.
- Standard charges can be used for charging the vehicles. A charge for four hours would make the vehicle run for 150 kms. at an average speed of 30 kms. per hour.
- Charging Stations to be established in petrol pumps on trial basis.

Suitable modifications were done to the manufacturing facility and trial production commenced in January, 2019.

The risk management consultant engaged to explore the various risk aspects of the proposal made the following observations:

- The estimated project cost of manufacturing NiMH Batteries (Project A) and Li-ion Batteries (Project B) ₹ 30 Lakhs and ₹ 34 Lakhs respectively.
- During the trial run of 50 vehicles for 100 kms. at an average speed of 30 kms. per hour, five vehicles broke down due to battery failure.
- Based on projections made, the worst-case and best-case scenarios were analyzed using statistical tools. There are no precedents available to compare the results projected in the scenarios.
- The company can export the vehicles to neighboring countries. Thus, forward exchange contract with bank could be entered. The estimated US Dollar rate on 30th April, 2019 was ₹ 69.50 per dollar and it was expected that the rupee would weaken by 2% at the end of 3 months.

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- The consultant stressed upon to the management that the risk management should be a continuous and developing process which runs throughout the company and improvements are to be made proactively in the areas of : Strategy, dynamically adopted Tactics, achieving Operational Objectives and Compliances.
- The consultant elaborated on counter measures such as, periodic inspections of the supply chain mechanisms (SCM) and periodic staff training. The same to consider measures to be taken in case of shortage of availability of raw materials, skilled man-power and reduction in sales. There would be a disruption in company's SCM but that would not impact the ERM process and there is a 10% probability that the project would not be successful.

You are required to answer the following questions:

Multiple Choice Questions

Choose the most appropriate answer from the answer options.

2x5
=10

(1.1) During second trial run of another 50 vehicles with the same conditions as that of the first trial run, it was found that three vehicles broke down due to battery failure. The combined probability of vehicle break-down due to battery failure is :

- (A) 0.006
- (B) 0.080
- (C) 0.160
- (D) 0.06

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(1.2) Forward exchange contract was entered into on 30th April 2019 with the bank for USD 10,000 for 3 months with its expected figure. The actual USD Rate on expiry of contract was ₹ 71/-. The company has:

- (A) Earned a profit of ₹ 1,390/-
- (B) Incurred a loss of ₹ 1,100/-
- (C) Incurred a loss of ₹ 1,500/-
- (D) Earned a profit of ₹ 1,420/-

(1.3) Which one of the following would MOST likely be called a systemic risk ?

- (A) Failure of the outsourced person to supply the raw materials on time.
- (B) Risk of skilled employees leaving the employment of the organization *en masse* and joining the company of a competitor.
- (C) Break down of machinery.
- (D) Risk of disruption in the functioning of the entire industry.

(1.4) From your point of view, which of the following argument is correct with respect to the consultant's opinion on SCM ?

- (A) Consultant is wrong as it increases speculative risks.
- (B) Consultant is right as it minimises the project risk.
- (C) Consultant is wrong as it has an effect on ERM process.
- (D) Consultant is right as it does not have an impact on human resource risk.

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(1.5) The company's method of analyzing the stress scenario would chiefly be generated from:

- (A) Events that will cause movements in the relative risk factors.
- (B) Events that will have adverse risk factor movements.
- (C) Events that will lead to control failures and exposures.
- (D) Events that will have the attention of the board of directors.

Descriptive Questions

(1.6) Discuss the methodology that you would suggest for analyzing the data on vehicular movement. **6**

(1.7) Net present value and probability distribution for Project A and Project B : **5**

Project A		Project B	
NPV estimates (₹)	Probability	NPV estimates (₹)	Probability
12,00,000	0.10	12,00,000	0.40
11,00,000	0.20	11,00,000	0.30
9,00,000	0.30	9,00,000	0.20
7,50,000	0.40	7,50,000	0.10
	1.00		1.00

- (i) Compute the expected net present values of projects A and B.
- (ii) Compute the profitability index (PI) of each project and suggest which Project can be undertaken.

(1.8) Briefly explain the areas of improvements suggested by the consultant with reference to the operations of the company. **4**

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CASE STUDY : 2

M/s. Modern Realty Developers is a partnership concern situated in Chennai. The current project of the firm is construction of 20 luxury apartments in the outskirts of Chennai. Each apartment is identical and the ultimate selling price of each apartment is ₹ 2.50 crores. The project had commenced in April, 2018 and the project completion is scheduled to be completed in September, 2019. Two apartments remained un-booked. A term loan was taken for ₹ 12 crores in April 2018 with no moratorium period.

Key figures :

Item	Projected	Actual
Project Completion	60%	45%
Collections from Customers	₹ 27 Crores	₹ 25 Crores
Term Loan payable to bank	12 installments	10 installments
Payments outstanding towards supply of materials	₹ 2 Crores	₹ 3 Crores
Salaries and Wages payable	Nil	₹ 25 lakhs
Outstanding statutory payments	Nil	₹ 50 Lakhs

Other issues faced :

- Workers hired were not adequately skilled.
- Scarcity of the Raw Material-river sand. Compelled to use substitute-M-Sand.

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- Increase in price of construction materials by 10% over the estimated price.
- Acute water scarcity in Chennai.
- Accidents occurred. Workers and the site supervisors did not follow the safety regulations.

The construction industry today favours low cost housing aimed at the middle-class section of people. This is due to the availability of concessions in the form of reduced interest rates, interest subsidy and tax benefits. The workers at the construction site faced dust and pollution problems. The neighbours around the site were complaining about the increasing dust levels.

It was suggested that the workers use protective face masks and spray water to the buildings under construction. Data variables about the (i) dust control measures and (ii) dust levels were collected and correlation between the above two variables was calculated for further analysis.

When preparing the cement mortar, it was decided to use 1 part of cement and 6 parts of sand. Drawing samples from 20 places, where cement mortar was applied, it was found that at 3 places such ratio was not maintained. The management contemplated to provide training in (i) handling the equipment, (ii) work culture, (iii) safety programs.

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Funds were earmarked for payment of income-tax. The same was utilized to purchase cement and bricks. Hence the payment of income-tax could not be made on the due date.

The firm received a notice from the bank asking for repayment of the outstanding dues immediately; failing which, the bank would take precautionary steps to make the firm to prepay the loan.

Answer the following :

Multiple Choice Questions

Choose the most appropriate answer from the answer options.

2×5
=10

(2.1) Instance of non-payment of income-tax on the due date would most likely show :

- (A) Risk appetite is lower than the risk capacity.
- (B) The firm has taken an internal risk.
- (C) The firm has considered it as a residual risk.
- (D) Risk appetite is higher than the risk capacity.

(2.2) Which of the following is MOST likely the reason that prompted the bank to issue such a notice ?

- (A) The bank felt that it is facing Exposure Risk.
- (B) The bank felt that it is facing Default Risk.
- (C) The bank felt that it is facing Recovery Risk.
- (D) The bank felt that it is facing Guarantee Risk.

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(2.3) The proposed action of the management to provide training and safety programs would fall under :

- (A) Risk Alternatives.
- (B) Insurance Alternatives.
- (C) Operational Alternatives.
- (D) Strategic Alternatives.

(2.4) What extra information is required to calculate the covariance discussed in the scenario ?

- (A) Correlation Coefficient.
- (B) Sample Means.
- (C) Standard Deviation.
- (D) Conditional Probability.

(2.5) If the tolerable limit for exception was 6% in the case of cement mortar sampling, the most likely conclusion would be:

- (A) the control risk is high.
- (B) the detection risk is high.
- (C) the control risk is low.
- (D) the detection risk is low.

Descriptive Questions

(2.6) Briefly explain the types of risks faced by the firm.

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(2.7) Prepare a sample risk register on dust and pollution risk faced in the activities of the firm.

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(2.8) Briefly explain the benefits of 'Improved risk measurement and management' to the management.

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CASE STUDY : 3

Ms. Rita is running a shopping mall RUBIK for the past six years. Sales for the year ended 31st March, 2019 was ₹ 10 Crores. In January 2019, a new branded shopping mall was started and from the said month there was a decline of 10% in sales of RUBIK.

Ms. Rita started studying the various aspects of risk management which are applicable and also capable of being applied to her business.

Ms. Rita started building the spending profiles of the customers based on their pin-codes.

The user ID of an employee who was dismissed last year was not deleted. The employee accessed the computer system remotely and transferred an amount of ₹ 5 lakhs to his bank account from Ms. Rita's bank account. Only on the next day of the transaction, Ms. Rita was able to find it out who then deleted the ex-employees ID, besides changing the password of her bank account. She lodged a complaint to the cyber-crime cell. It was noticed by her that the flash floods in the year 2015, which was the worst rainfall in 100 years in Chennai, had caused extensive damage to the goods in the ground floor. She decided to include the same in the risk consideration. She is also contemplating to borrow ₹ 2 Crores as long term loan for 15 years from the bank for the modernization of the shopping mall. She is nervous on taking on the burden of such a huge loan amount. Due to sudden power spike, the computer server crashed resulting in 15-day data loss. Hence, Ms. Rita proposes to outsource the back-up services to a service provider situated in Hyderabad, besides installing a back-up server at the office.

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Ms. Rita is estimating the sales of various products. She came out with the following :

- She is forecasting the sales performance for the FY 2019-2020 conditional on the market state of the country in which her business is based. She divides the market's performance into three categories of good, neutral and poor and the sales performance into three categories of increase, constant and decrease. The estimates are:
- Probability that the market state is good is 45%. In this state, probability for increase in sales is 70% and probability for decrease in sales is 15%.
- Probability that the market state is neutral is 30%. In this state, probability for increase in sales is 50% and probability for decrease in sales is 30%.
- If the market state is poor, probability of increase in sales is 25% and probability of decrease in sales is 60%.

You are requested to help Ms. Rita by answering the following :

Multiple Choice Questions

Choose the most appropriate answer from the answer options.

2×5
=10

(3.1) The bank transfer of ₹ 5 lakhs could have been avoided if there was a strong:

- (A) Segregation of duties control
- (B) Data encryption
- (C) User access management
- (D) Firewall mechanism

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(3.2) The samples are drawn out from the profiles of the customers for further analysis. Such an act of drawing the sample is known as:

- (A) Stratified sampling method.
- (B) Purposive sampling method.
- (C) Systematic sampling method.
- (D) Clustered sampling method.

(3.3) In the decision to include the damages due to flash floods in risk consideration, which of the following MOST likely should be given importance ?

- (A) Strategic Plan.
- (B) Contingency Plan.
- (C) Operational Plan.
- (D) Tactical Plan.

(3.4) Which of the following would LEAST likely enable the identification of new risks ?

- (A) Periodically running some trend analysis reports to analyse incidents.
- (B) Conducting root cause analysis.
- (C) Using benchmarking techniques for comparing the risks with competitors.
- (D) Recording incidents in a register.

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(3.5) The proposal to engage the service provider at Hyderabad is an example of :

- (A) Risk avoidance.
- (B) Risk mitigation.
- (C) Risk transfer.
- (D) Risk acceptance.

Descriptive Questions

(3.6) Calculate the probability assuming the market state is neutral as the sales performance is more or less constant. 6

(3.7) List the various Risk Maturity Levels and their Key Characteristics. 5

(3.8) Briefly explain the economic risks that could be faced by Ms. Rita. 4

CASE STUDY : 4

A company in the financial services sector has been fined by the Regulator for various breaches of relevant regulations owing to which they suffered Reputation Loss and Credibility among customers and the public. There is a possibility that some of the Directors and Officers may be penalised and could be sued by the shareholders for losses suffered and wrongs committed. The Board and the Top Management of the company were quite worried about this turn of events as breach of Corporate Governance norms and non-compliance of laws and regulations were not expected to happen in the company.

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You have been appointed as the new Chief Risk Officer to review and ensure best practices in Corporate Governance particularly in the areas of compliance, disclosures, consumer protection, management of frauds and financial crime and ethical conduct in the organisation. It is a well understood fact that in the financial services sector, Regulators are active and regulatory risk is one of the major risks faced by companies in this sector. You are also aware that there have been many scandals and collapses in the financial sector world-wide and you share the concern of the Board that it is important to set benchmarks for governance in the company.

Keeping in mind that disclosures are information that is meant for shareholders, consumers who have bought products from the company and for other stakeholders such as employees, agents, other intermediaries and those in the ecosystem of the company, you are asked to reshape the disclosure policy of the company in tune with regulations and best practices.

Consumer protection is increasingly being focused on by Regulators. Consumer Forums, Courts and other bodies raise their voices against customer service deficiencies and penalise companies. They are shamed when such information is circulated in the media. The CRO is asked to ensure that conduct risk is better managed by a cultural change in the organisation.

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Fraud and financial crime are on the rise and these can be happening with the connivance of or wholly by employees and even at senior management levels. Cyber-crimes, frauds and losses are becoming common place and there is a need to ensure that systems are security proofed and employees are made aware of the risks. This can be further risk proofed by raising the ethical standards and putting place necessary controls to ensure that the conduct of everyone in the institution is ethical and upright.

You have been asked to advise the Board and draft suitable policies for upgrading corporate governance practices and risk management. To bring about cultural change in areas that is dependent on management and employee conduct. To create a culture that is customer oriented and strongly against violations of regulations. To discourage opaque practices that give rise to arbitrary decisions at operational levels as these work against customers, reputation and bottom line of the company.

Based on such a background and considering the OECD guidelines on corporate Governance, please answer the following questions.

Multiple Choice Questions

Choose the most appropriate answer from the following

2×5
=10

(4.1) Corporate Governance risk is intended to identify deficiencies that can damage the following important existential aspects of the company.

Point out the wrong answer.

(A) Reputation.

(B) Existence.

(C) Sales growth.

(D) Continuity.

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(4.2) A holistic risk management framework would empower the Board to
Point out the wrong answer.

- (A) Identify top threats to the entity and asset protection measures.
- (B) Link risks to more efficient capital allocations and business strategy.
- (C) Develop a common language in the organisation for problem solving.
- (D) Look back strategy made to ensure that best practices are continued.

(4.3) Stress Tests are important for Banks and are an important aspect for Board/Corporate Governance oversight. Choose the right reason for conducting Stress Tests from the options given below:

- (A) To deal with natural and manmade asset and disaster risks.
- (B) To manage optimally business and portfolio downside movement.
- (C) To manage political and country risks.
- (D) To prevent fraud risks, malpractices and financial crimes.

(4.4) Credit risk mitigation in Banks is a key concern of the Board. It can include the following except one. Point out which answer is inappropriate.

- (A) Norms of lending are tightened.
- (B) Credit insurance.
- (C) Making Covenants with the borrowers.
- (D) Verification of assets.

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(4.5) Normally every Board of a company should have a Risk Committee.

Among other things the following are the duties of this Committee except one, which ?

- (A) Risk Committee discusses every matter in the agenda of the Board prior to the Board Meeting.
- (B) Is required to review and approve the company's risk policies at least annually.
- (C) Discusses all the risk strategies on both aggregate basis and by risk type.
- (D) Oversees that management puts in place robust processes to ensure adherence to the risk policies approved by the Board.

Descriptive Questions

- (4.6) Explain Corporate Governance referring to OECD guidelines and explain how the Board can shield against Corporate Governance Risks. 5
- (4.7) What is the type of risk management that is to be initiated by the Board/Management so as to prevent frauds and financial crimes ? 5
- (4.8) How can Credit Risk Management be upgraded to ensure that risk of default is kept to the minimum. 5

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CASE STUDY : 5

A manufacturing company had a major loss occurring to them in the pure risk category, namely a flood loss in its premises. The loss caused severe damage to buildings, compound walls, plant and machinery on the main factory floor and basements as also stock including stock in the open. Motor vehicles and other mechanised transport were also damaged by entry of water into their engines. The loss happened in the middle of the monsoon season. The factory was insured and as the company did not have any claim for the last 10 years the insurance department and risk management department had become careless and the level of underinsurance was overall 40% in relation to the replacement value of the assets.

The claim process was slow and tedious as the company did not have any knowledge of claim processes and the kind of papers and documents that were needed to be submitted to prove the various kinds of losses and how to make the estimates to compute the amount to be claimed. It had to depend on the insurance company's agent and surveyor to help them to see that they complied with the obligations that have to be met when losses occur such as informing the civil and police authorities of the loss; and in saving damaged materials from further loss and segregating them; in measuring the physical dimensions of the loss and estimating the cost of repairs and reconstruction; in producing the account books showing the value of assets and stocks lost etc.

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There had to be many visits by the surveyor and many rounds of negotiations for the claim to process and the company did not get the claim for a long period.

The company also found that the expected loss reimbursement or indemnity, as is technically known in insurance terminology, did not get allowed as the policies taken had terms which made deduction of depreciation necessary and also because all assets were not insured at full value and hence underinsurance applied. This caused not only considerable delay in the formalities of the claim, but also the amount assessed was below the expectations of those who took the decisions relating to insurance as their knowledge was incomplete and the advice. The concerned department could not explain under what risk management policy and practices of the company they had taken decisions which made the company ineffective in getting indemnity to the extent they could have got and that also by through a speedier settlement.

In view of the delay in the settlement of the claim the company faced a financial struggle to get the factory back to normalcy during which the company made losses and its interest cost rose very high. It had to lay off workers owing to which the employee morale was hit. As production could not be resumed early enough, the loyalty of stockists and customers began to fall. In view of all this, the insurance and risk management departments were asked to review its risk management policies and practices with regard to pure or insurable risks. The final decisions included steps such as to insure the factory on reinstatement value, to ensure review of the sum insured every year, to take on add on covers for debris removal and the like.

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The company appointed a new Insurance Officer, with additional duties to assist the Risk Management Department in the management of pure risks. He researched and found that insurance is essential in areas such as property protection, loss of earnings, liability insurance for the firm, its Directors and other employees. Protection of employee lives and health was becoming a norm in organised industries. Health Insurance had become necessary as an employee benefit. The Board of Directors were concerned about the emerging risks that faced the Directors on the Board and the Officers of the company for wrongful actions and the need to have a well-designed Directors and Officers Liability insurance cover, as also insurance for product liability and any other liabilities that can arise because liability claims can be very large and may lie hidden for many years. Increasingly authorities are directly slapping criminal and civil cases against the company when loss of lives take place and where products are concerned especially those exported to foreign countries; product liability insurance has become almost a compulsory requirement.

In examining existing insurance practices, many poor practices were identified. For instance, many low-level losses which were claimable the concerned departments were not reporting the claims to the insurance department and hence many claims which were of lower amounts but were claimable were found to be unrecovered. Hence reporting processes had to be reworked and made known across the organisation. Similarly, loss prevention in tune with insurance requirements were not properly carried out and, in the process, there were possibilities that the insurance claim, if such arise could have been turned down or paid at a lower amount on account of breach of conditions and warranties in the policy.

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There are still questions that were to be examined relating to risks in the context of insurance and risks which cannot be insured. You are asked to look at some of these questions.

Multiple Choice Questions

Choose the correct answer to the following questions.

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(5.1) Insurable risks are most likely to arise from which of the following categorisation of risks.

- (A) Hazard Risks.
- (B) Control Risks.
- (C) Opportunity Risks.
- (D) None of the above.

(5.2) In Annual Reports it is necessary to have a section on Management Discussion and Analysis. One of the following is not necessary to be discussed in the above section.

- (A) Opportunities and Threats.
- (B) Risk and concerns.
- (C) Details of managing insurance risks.
- (D) Internal Control systems and their adequacy.

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(5.3) Credit risk is insurable and has various components as per list seen below except one – point out the exception.

(A) Recovery Risk.

(B) Collateral Risk.

(C) Exposure Risk.

(D) Rejection risk.

(5.4) The purpose of risk evaluation is to do the following, one of which is not essential. Which ?

(A) Identify probabilities of failures and threats.

(B) Calculate the exposure i.e. possible damage or loss.

(C) Make control recommendations keeping cost-benefit analysis in mind.

(D) Get consensus from all concerned.

(5.5) Certain risks are called pure risks. In this kind of risks either a loss occurs or no loss occurs. There is no scope for gain. Which of the following is not a pure risk ?

(A) Early Death.

(B) Physical damage.

(C) Loss in the share market.

(D) Liability for damages due to negligence/wrong doing.

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Descriptive Questions

- (5.6) Define what a pure risk is and distinguish it from other types of risks. 4
- Explain why insurance coverage for pure risk is important.
- (5.7) Why operational risk management is important for the management of a company to avoid losses whether insurable or not ? 4
- (5.8) What is the role and responsibility of the Risk Manager ? What are the objectives and process of risk management to prevent losses ? 7

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