

**ICAI – WIRC – Last Minute Revision FOR NOV 2020 EXAMINATION**

**SUBJECT: Enterprise Information Systems / Information Technology – CA Intermediate**

<b>Topics to be discussed</b>	
1	Time management before the exams start
2	Time management during exam (after leaving from audit paper)
3	Time management while sitting in the exam hall
4	Integrated case study based mcqs
5	List of important topics

**FAILING TO PLAN = PLANNING TO FAIL**

1. Time management before the exams start

- ✓ Everyday morning 6.30am – 9.00am to be devoted to EIS / IT
- ✓ Write minimum 2 mock test papers to understand if your able to complete the paper in 1.5 hrs
- ✓ Pay adequate attention to MCQs (MCQs in study material + 30:70 assessment + RTP + MTP)

2. Time management during the exam (For EIS / IT - SM)

Day	Time	Allocation for New Syllabus	Allocation for Old Syllabus
3 Dec 2020	2pm – 5 pm	Audit paper	Audit paper
	6.30pm – 9.00 pm	EIS – Chp 3 - Information System & Controls	IT – Chp 2 - IS and IT fundamentals
	9.00pm – 9.30 pm	Dinner	Dinner
	9.30pm – 12am	EIS – Chp 4 - Ecommerce, Emerging Tech	IT – Chp 4 - Business information systems
4 Dec 2020	6.30am – 8.30am	EIS – Chp 1 - Business process automation	IT – Chp 1 – BPM & IT
	8.30am - 9.00am	Breakfast	Breakfast
	9.00am – 11am	EIS – Chp 2 - Financial & Accounting systems	IT – Chp 5 – BPA through app. software
	11am – 1.30pm	EIS – Chp 5 - Core banking systems	IT – Chp 3 - Telecommunications
	1.30pm – 2pm	Lunch	Lunch
	2pm- 2.30pm	SM Chp 1	SM CHP 1
	2.30pm – 3pm	Short nap	Short nap
	3pm – 5pm	SM Chp 2	SM CHP 3
	5pm-6pm	SM Chp 3	SM CHP 2
	6pm – 6.30pm	Evening break	Evening break
	6.30pm – 7.30 pm	SM Chp 4	SM CHP 4.5
	7.30pm – 8.30 pm	SM Chp 5	
	8.30pm – 9.30pm	SM Chp 6	
	9.30pm – 10pm	Dinner break	Dinner break
	10pm – 11pm	SM Chp 7	SM CHP 6
11pm – 12 am	SM Chp 8	SM CHP 7	
	6.30am – 8am	RTPs	RTPs

5 Dec 2020	8am – 9am	MTP	MTP
	9am – 9.30am	Breakfast	Breakfast
	9.30am – 11am	MCQs	MCQs
	2pm – 5pm	EIS/IT – SM paper	EIS/IT – SM paper

3. Time management while sitting in the exam hall (For EIS / IT - SM)

Day	Time	Allocated to
5 Dec 2020	1.45pm – 2pm	Reading and positioning time
	2pm – 2.30pm	EIS MCQs
	2.30pm – 3.15 pm	Attempt EIS answers you know very well
	3.15pm – 3.45pm	SM MCQs
	3.45pm – 4.30pm	Attempt SM answers you know very well
	4.30pm – 5pm	Bonus answers and presentation

Points to be remembered:

- ✓ Do not waste unnecessary time on one question
- ✓ Underline the header & important points/words in the internal point
- ✓ Start every sub-question on a new page

**INTEGRATED CASE STUDY BASED MCQs**

**Q1 – MTP – N20 (New syllabus EIS)**

Fit&Fine is one of the renowned gymnasium in South Delhi established in 2016. The gym is very famous for its health services, latest equipment, cordial environment, and experts. The Fit&Fine gym management has excellent arrangement for its customers as well as employees. A Dietician and a physician are also associated with gym during the gym timings of 5:00 am to 10:00 pm all days.

On the occasion of Diwali in 2019, the gym also launched an online Fit&Fine Gym Aggregator service application to reach out and get connected to more customers through various gyms located in West and North Delhi. For its new e-business as online gym aggregator, Fit&Fine entered into various electronic agreements with many other gyms in West Delhi and North Delhi prescribing the specific terms and conditions of the agreement. All these gyms associated with Fit&Fine are required to provide fitness related best services to its customers.

The services of various associated gyms can be availed by the customers either through the Gym Aggregator service application or through physical visit at the registered gyms in the app by paying onetime membership fees of ₹ 3000 and gets unique membership id and PIN number to avail the facilities. A member can either book for his/her physical visit or online session with any of these registered gyms associated with Fit&Fine using the membership id.

1. Though Fit&Fine gym and other registered gyms have excellent arrangements for health and safety of its employees; yet the management of the gym remains concerned about any negligence that may occur and the risks that can expose it to various fines and penalties posed by any regulatory agency. Which type of business risk is the management here referring to?

(a) Strategic Risk

- (b) *Regulatory Risk*
  - (c) *Hazard Risk*
  - (d) *Operational Risk*
2. *The IT team managing the Fit&Fine Gym Aggregator application manages the MIS Report on various parameters like – number of bookings for online sessions/physical meetings done each day, joining of new members per month etc. The information so extracted through these MIS reports have following criterions except one. Identify it.*
- (a) *Relevant*
  - (b) *Accurate*
  - (c) *Timely*
  - (d) *Confidential*
3. *Fit&Fine gym provides Unique Id and PIN number as an access control mechanism to its customers to avail the facilities provide through Gym aggregator service app. From the following controls, identify the Application control under which this specific access control mechanism falls.*
- (a) *Physical Control*
  - (b) *Boundary Control*
  - (c) *Communication Control*
  - (d) *Management Control*
4. *In purview of above case scenario, there can be a possibility that any registered gym with Fit&Fine Gym aggregator online service may violate the terms and conditions of the agreement done between the two. Which type of risk is associated with this e-Commerce transaction?*
- (a) *Lack of authenticity of transaction*
  - (b) *Problem of anonymity*
  - (c) *Repudiation of contract*
  - (d) *Privacy and security*
5. *In purview of above case scenario, customer can pay its membership fees through credit card to Fit&Fine. Which risk is taken care in case the banking system key control is established that transaction cannot be made if the aggregate limit of out- standing amount exceeds the credit limit assigned to customer?*
- (a) *Credit Line setup is unauthorized and not in line with the bank's policy.*
  - (b) *Credit Line setup can be breached.*
  - (c) *Masters defined for the customer are not in accordance with the Pre-Disbursement Certificate.*
  - (d) *Inaccurate reconciliations performed.*

Ans:

1. (b) Regulatory Risk
2. (d) Confidential
3. (b) Boundary Control
4. (c) Repudiation of contract
5. (b) Credit Line setup can be breached

**Q2 – MTP – N20 (Old syllabus IT)**

Agro Green is one of the renowned companies in Delhi that deals with farming products like manure, seeds and seedlings. The company observed that demand of organic seeds and manure has increased as people are very much health conscious nowadays. The sale of the company was gradually falling down as company was not able to fulfill the demands of its customers. Hence, the management of company thought of radical redesigning of its business processes and envisioning new work strategies. For this, the management decided to implement changes in its technological, human and organizational dimensions to fulfill the demands of its customers.

For organic seeds and manure, the company needed to collaborate with farmers of nearby villages in Delhi/NCR that might lead to increase in the operational cost to the company. To coordinate with all the stakeholders in village would be tough, so the company decided to have Single Point of Contact and approached Head of Gram Panchayat of each village. For this, the company officials proposed to use various communication devices having advance technologies like instant messaging or video conferencing to have a regular communication with Head of Gram Panchayat of every village. The Drone facilities for aerial view were also required to view the status of fields in different villages.

However, due to the financial constraints, the company was not in the position to spend huge amount on various communication devices. Therefore, IT head of the company suggested management to outsource company's communication solution that can be leased through a single vendor. The management agreed to this point and started looking for service provider for the same. For this, M/s MLN Solutions is selected that allows the Agro Green company to use the centralized accounting software and also selectively deploy communication devices on need basis.

The use of accounting software through M/s MLN Solutions helps the company to maintain its business transactions and records in a centralized manner. Mr. Rajesh, an accountant in the company's accounts department is responsible to keep the records of all the transactions made by the customer, order and invoice tracking etc. on daily basis.

1. In purview of above case scenario, identify the type of Information System on which Mr. Rajesh, an accountant of Agro Green company is working on.
  - (a) Strategic level Information System
  - (b) Management level Information System
  - (c) Operational level Information System
  - (d) Knowledge level Information System
2. Which type of software is being used by Agro Green company to keep the records of its business transactions?
  - (a) Custom built Application

- (b) *System Software*
  - (c) *Packaged Software*
  - (d) *Leased Application*
3. *In purview of above case scenario, the decision of management of Agro Green to redesign its present system to fulfill the demands of its customer is an underlying concept of \_\_\_\_ \_ .*
- (a) *Segregation of Duties*
  - (b) *Audit Trails*
  - (c) *Business Process Reengineering (BPR)*
  - (d) *Business Process Automation*
4. *In purview of above case scenario, which cloud computing service based model M/s. MLN Solutions can use to provide its services to Agro Green?*
- (a) *Communication as a Service*
  - (b) *Infrastructure as a Service*
  - (c) *Platform as a Service*
  - (d) *Software as a Service*

*Ans:*

- 1. (c) *Operational level Information System*
- 2. (d) *Leased Application*
- 3. (c) *Business Process Reengineering (BPR)*
- 4. (a) *Communication as a Service*

**Q3 - RTP – N20 (New syllabus EIS)**

*Sweet & Sour is an established food chain with five branches at different locations within Delhi. In 2018, the management decided to start a tiffin services with 24x7 availability on regular basis. To do so, they decided to acquire a software which would be an online assistant to its customers by providing them a complete detail about their services. The Management asked its manager to present them a report mentioning the benefits, risks, control objectives and above all highlighting any changes that are required in the working of food chain.*





*The management settled on a plan to benefit all its customers by providing them discounted coupons in case they recommend their services to others and customer ensuring to provide the food chain of three new customers. Also, the management decided for a centralized billing system that mandatorily requires customer's name and phone number to be filled for each bill that system generates. To maintain these necessary details of its customers, the data management team of Sweet & Sour implemented major changes in the database design of its billing software. Subsequently, the security and database maintenance has become essential to protect the system against any unlawful activity as the database now contains the personal details of its customers.*

- 1. *The software which food chain decided to buy, to help their customer and provide them*

*online help, falls under which of the following technology?*

- (a) *Artificial Intelligence*
- (b) *Data Mining*
- (c) *Cloud Computing*
- (d) *Mobile Computing*

2. *The Manager of the food chain prepared a document wherein he depicted various business processes of the food chain in diagrammatic form. Which of the following diagram will he use to present pre-defined process?*

- (a) 
- (b) 
- (c) 
- (d) 

3. *The data management team of Sweet & Sour food chain was working to implement changes in database design of its billing software. Which of the following person will carry out routine data maintenance and monitor this task?*

- (a) *Database Administrator*
- (b) *Database Architect*
- (c) *Database Analyst*
- (d) *Database Advisor*


4. *The management of Sweet & Sour has shown its concern what would happen if any of its employees dishonestly make use of personal information of customer. Which of the following Section of IT Act, 2000 will help Sweet & Sour to deal with this situation?*

- (a) *Section 43A*
- (b) *Section 43*
- (c) *Section 66E*
- (d) *Section 66B*

5. *The Management Information System of SVE Ltd. enterprise develops MIS reports only when required. It does not generate MIS reports for each and every day. Identify from following the type of MIS report generated by SVE Ltd.*

- (a) *Off Demand MIS Reports*
- (b) *Demand MIS Reports*
- (c) *Required MIS Reports*
- (d) *On-Demand MIS Reports*

Ans:

1. (a) Artificial intelligence
2. (c) 
3. (c) Database Analyst
4. (a) Section 43A
5. (a) On-Demand MIS Reports

**Q4 - RTP – N20 (Old syllabus IT)**

A group of five friends from the same batch of course of post-graduation in computer science, on the successful completion of their course, decided to initiate a startup of their own. They launched a company with the name HIREME Ltd. under the website URL [www.HIREME.com](http://www.HIREME.com) that enables searching and hiring of software provider companies. HIREME Ltd. has well adopted the concept of Business Process Management (BPM) to improve its end-to-end business processes in various stages and aims to grow their revenues quickly while controlling their resource costs. The website provides the entire details of various projects, architect designs and assignments handled by these vendors nationwide. The needy companies can review and analyze the promising offers of these vendors through the website [www.HIREME.com](http://www.HIREME.com) and can directly contact them with their bid for their requirement. The vendors review all the bids and select the company for further processing.

DEF is an event management company that organizes the events for high profile people. The company through the website [www.HIREME.com](http://www.HIREME.com) decided to hire a software provider Mr. X to develop a Burglar Alarm System for their events scheduled in different locations, for which HIREME Ltd was to be paid ` 50,000 as service charges apart from the payment of ` 2 lakhs to Mr. X. After completion of project, DEF released the payment of ` 50,000 and ` 2 lakhs to HIREME Ltd. and Mr. X respectively through net banking. Though Mr. X received his payment; due to some technical snag, the bank statement of the HIREME Ltd. did not reflect that the said amount of ` 50,000 has been credited in its account.

Read the above case scenario and answer the following questions.

1. We know that HIREME Ltd. adopted Business Process Management (BPM) to improve their end-to-end business processes. Identify the phase from the following phases of BPM Life cycle where HIREME Ltd. evaluated the potential solution to meet its business process modelling.
  - (a) Implementation
  - (b) Design
  - (c) Optimize
  - (d) Analysis
2. While developing the Burglar Alarm System for its client DEF, Mr. X followed all the steps involved in Information System Life Cycle. Which phase of Information System Life Cycle will provide an answer to the question "How will the new solution be put in effect"?
  - (a) System Maintenance and Review

- (b) *System Testing*
  - (c) *System Implementation*
  - (d) *System Analysis*
3. *In purview of the case scenario, what do you think is the e-Commerce model that is adopted by HIREME Ltd.?*
- (a) *Consumer to Consumer e-Commerce*
  - (b) *Consumer to Business e-Commerce*
  - (c) *Business to Employee e-Commerce*
  - (d) *Business to Consumer e-Commerce*
4. *The situation in which the fixed amount was deducted from DEF's account but was not credited in bank account of HIREME Ltd., the transaction does not qualify as a successful transaction. Which of the following prerequisite of Transaction Processing System is not satisfied in this case?*
- (a) *Isolation*
  - (b) *Consistency*
  - (c) *Atomicity*
  - (d) *Durability*
5. *During this pandemic COVID 19, Mr. X scheduled many video conferencing sessions with his team members to discuss on the work-in progress regarding development of Burglar Alarm System for its client DEF. The hardware, storage, servers and infrastructure were provided to Mr. X and his team members by Cloud Computing Service providers on pay as per usage basis. Which of the following statement is false regarding Cloud Computing?*
- (a) *Storing information in the cloud provides strict security against threats and hackers.*
  - (b) *Once we register ourselves in the cloud, we can access the information from anywhere.*
  - (c) *Cloud computing is one of the most cost-efficient method to use, maintain and upgrade.*
  - (d) *In the cloud, software integration is usually something that occurs automatically*

*Ans:*

- 1. *d) Analysis*
- 2. *(c) System Implementation*
- 3. *(d) Business to Consumer e-Commerce*
- 4. *(c) Atomicity*
- 5. *(a) Storing information in the cloud provides strict security against threats and hackers*



*A Cooperative society in Ghaziabad decides to open a bank named ABC Bank with its two branches located in Noida, Uttar Pradesh. The branches of banks are proposed to be connected to each other and all the processing and transactions being computerized with a centralized database. Further, to avoid manual working and proceed with advance technology, and at the same time to enhance functionality within branch; all the computer systems within all the departments in each branch would have connection-oriented network. The bank proposes to abide by all the regulations and compliance prevailing in India with respect to banking sector.*

*Mr. A is appointed as an IT - Head to carry out the Feasibility study of the proposed system and submit the report to top management of the Cooperative Society. After the report is submitted to the Top Management, following issues are raised by the management:*

- *There may be a conflict for some common resources in the network.*
- *Since the data is centrally located, it may create a possibility of access to non-relevant data by other departments.*
- *What would happen, if any employee intentionally destroys or alters the information residing in any of computer of any branch?*
- *Network security related issues between both branches of bank.*

*Based on the above case scenario, answer the following questions:*

1. *In purview of above case, under which legal provision of IT Act, 2000; the management can prove an employee guilty if (s)he intentionally destroys or alters the information residing in a computer resource of a branch?*
  - (a) *Section 43*
  - (b) *Section 65*
  - (c) *Section 66 E*
  - (d) *Section 66 C*
2. *Which of the following control shall be implemented in both the branches of ABC bank to suppress the risk of possibility of access to non-relevant data by other departments?*
  - (a) *Proper training of the users with well documented manuals*
  - (b) *Clear defining of change control procedures and holding everyone to them.*
  - (c) *Back up arrangement needs to be very strong.*
  - (d) *Access rights need to be defined very carefully and to be given on “Need to know” and “Need to do” basis only*
3. *The feature of Internet banking through ABC Banks’ website allows ease and convenience to its customers. Which of the following is not the limitation of Internet banking?*
  - (a) *Difficult for a non-technical person*
  - (b) *Risk of data theft*
  - (c) *Written Record not to be maintained*
  - (d) *Overspending*
4. *The Top management of cooperative society raised its concern over an issue related to*

*conflict of sharing of common resources in network between its two branches. Select the terminology referring to the above concern.*

- (a) Resilience
  - (b) Contention
  - (c) Bandwidth
  - (d) Routing
5. *In both branches of ABC bank, all the fixed asset acquisitions will be recorded as the control objective related to certain risk. Under which category this control objective falls?*
- (a) Configuration general ledger
  - (b) Transaction Fixed asset
  - (c) Master fixed asset
  - (d) Transaction general ledger

*Ans:*

- 1. (a) Section 43
- 2. (d) Access rights need to be defined very carefully and to be given on "Need to know" and Need to do" basis only
- 3. (c) Written Record not to be maintained
- 4. (b) Contention
- 5. (b) ~~Transaction general ledger~~ Transaction Fixed asset

**Q6 - RTP – M20 (IT OLD syllabus)**

*XYZ is a handbag manufacturing company which was established in year 2010 in India. It had good sales record through its factory outlets as well as online through the mobile app throughout the country. However, sometime before, the management realized that there has been an exponential fall in the sales of its products. To identify the causes of decline in the sales, the top management used a structured approach of ongoing refinement in response to continuous feedback provided by its customers. They created the database of their valuable customers throughout the country and sought their feedback either in physical mode or digital mode through a feedback form and started analyzing each suggestion(s) and comment(s) provided by their customers.*

*Issues highlighted through Feedback Form were -*

- (a) Zips used in handbags were not of good quality.
- (b) Customers wanted the customized product of their own choice.
- (c) The designs of the handbags were obsolete.

*Based on the above case scenario, answer the following questions:*

- 1. *Through Feedback Form, the top management of XYZ company identified the reasons for the decline in the sales of its handbags. Which of the following information system would have been used to capture and analyze the feedback of the customers?*
- (a) Management Information System

- (b) *Decision Support System*
- (c) *Legal Management software*
- (d) *Knowledge Management System*
2. *In purview of above case scenario, what do you think the approach will be followed by the Top management of XYZ company to improve the quality of their products?*
- (a) *Total Quality Management*
- (b) *Business Process Automation*
- (c) *Six Sigma*
- (d) *Process Management*
3. *The customers of XYZ company need to register themselves to buy any product through mobile app. To do so, they have to follow certain steps for authentication process. Which of the following control is used to fulfill this purpose?*
- (a) *Output Control*
- (b) *Input Control*
- (c) *Database Control*
- (d) *Boundary Control*
4. *Internet users access Google App Engine that allows them to run their web applications on Google's Infrastructure. Which of the following service model of cloud computing does this feature belong to?*
- (a) *Platform as a Service*
- (b) *Network as a Service*
- (c) *Communication as a Service*
- (d) *Software as a Service*
5. *Huge volume of data is being exchanged on internet, so the security of networks on internet must be robust. Which of the following is not considered as the key aspect of security in network?*
- (a) *Confidentiality*
- (b) *Threat Identification*
- (c) *Message Authentication*
- (d) *Message Integrity*

*Ans:*

1. (a) *Management Information System*
2. (a) *Total Quality Management*
3. (d) *Boundary Control*
4. (a) *Platform as a Service*

5. (b) *Threat Identification*

CA AAKASH PEDNEKAR

<b>EIS – List of important topics</b>	
<b>CHP 1</b>	<i>Steps in business process automation</i>
	<i>Types of risk management strategies</i>
	<i>Information Technology general controls</i>
	<i>Key indicators of effective IT controls</i>
	<i>5 components of internal controls systems as per SA 315</i>
	<i>ERM framework</i>
	<i>Advantages of flowchart</i>
	<i>Risk and control objectives – (Masters – O2C) + (Transaction – O2C)</i>
	<i>Risk and control objectives – (Masters – Fixed asset)</i>
	<i>Risks associated with HR dept</i>
	<i>Computer related offences</i>
<b>CHP 2</b>	<i>Master data &amp; Non master data</i>
	<i>Advantages and disadvantages of Web applications</i>
	<i>Pre- implementation ERP risks</i>
	<i>Role based access control (Mandatory access control &amp; discretionary access control)</i>
	<i>Finance &amp; accounting module – features</i>
	<i>Controlling module – features</i>
	<i>Material management module – process</i>
	<i>MIS – benefits and characteristics of information</i>
	<i>Business intelligence</i>
	<i>XBRL – features &amp; who uses it</i>
	<i>Pros and cons of having single software for both accounting and tax compliance</i>
<b>CHP 3</b>	<i>Activities performed by Operating software</i>
	<i>Prominent data base models</i>
	<i>Advantages of DBMS</i>
	<i>Big data</i>
	<i>Data warehouse - criteria + approach + benefits</i>
	<i>Data mining - steps</i>
	<i>Corrective control – meaning, examples, characteristics</i>
	<i>Asynchronous and Technical exposures</i>
	<i>Network access controls</i>
	<i>Operating system access controls</i>
	<i>Phases of PDLC</i>
	<i>Quality assurance management controls</i>
	<i>Boundary controls</i>
	<i>Objectives of IS Audit</i>
	<i>Factors influencing an org. towards controls and audit</i>
	<i>CAAT tools</i>
	<i>Segregation of duties controls</i>
<b>CHP 4</b>	<i>E – commerce workflow, benefits to customers, sellers and govt</i>
	<i>E – markets (all)</i>
	<i>E – commerce components</i>
	<i>How can you protect your e-commerce business from intrusion</i>
	<i>Commercial laws governing e-commerce transactions</i>
	<i>Digital payments – New methods – advantages and disadvantages</i>
	<i>Application areas of Virtualization</i>
	<i>Application areas and security architecture under Grid computing</i>

	<i>Private cloud &amp; community cloud – characteristics, advantages and disadvantages</i>
	<i>Instances of IaaS</i>
	<i>Limitations of mobile computing</i>
	<i>BYOD risks</i>
	<i>Steps in green computing</i>
	<i>Application areas of IOT</i>
<i>CHP 5</i>	<i>Characteristics and features of CBS</i>
	<i>Key technology components of CBS</i>
	<i>CBS implementation</i>
	<i>Risks associated with CBS</i>
	<i>Distinguish between application server and database server</i>
	<i>Cyber crimes as per UN manual</i>
	<i>Information security – risks and controls</i>
	<i>Internal controls vs IT controls in banks</i>
	<i>Mortgage process</i>
	<i>Risks and controls around treasury operations</i>
	<i>Stages of money laundering</i>
	<i>Section and penalties under IT Act – 43,43A, 65,66,66-B,66-C, 66-D,66-E</i>