CHAPTER



Automated Business Processes

This Chapter Covers: Study's Chapter: 1

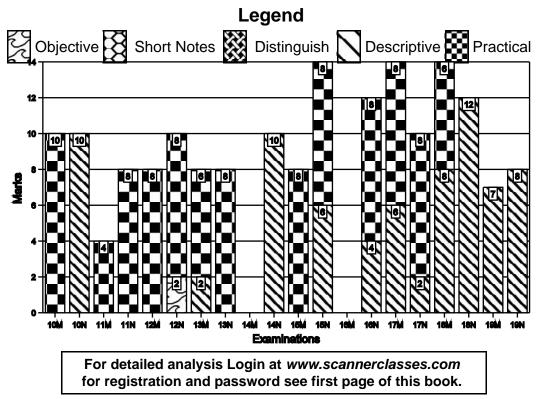
Chapter Comprises: Enterprise Business Processes & Automated Business Processes & Enterprise Risk Management & Risks & Controls & Risks and Controls for specific Business Processes & Regulatory and Compliance Requirements.

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THE GRAPH

..... Trend Analysis

Marks of Objective, Short Notes, Distinguish Between, Descriptive & Practical Questions



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TIME MANAGER		Plan and Manage your Time						
	First In- depth learning	Revi	tant ision ours)	Periodic Revision (in hours)				
Time	i.e Day 1	Next day i.e Day 2	After 7 days i.e. on Day 8	After 30 days i.e. on Day 30	After 60 days i.e. on Day 60	After 90 days i.e. on Day 90	Fix per y nee	/our
1. Budgeted	16	4.00	3.12	2.20	1.35	1.35		
2. Actual								
3. Variance (1-2)								

QUICK LOOK	Weightage Analys	
Repeatedly Asked Questions	Common Answered Questions	Must Try Question
	7.1	1.2, 2.4,3.7, 7.7, 7.8, 7.17,7.28

Introduction

Q.1.1	2007 - Nov [6] (c)			Descriptive	
Briefly explain the principles to guide the design of indicators to be included in EIS. (5 marks			measures and s) [C.A. Final - I]		
Answer:	Answer:				
Meanin	g of EIS	•	EIS is a tool that is designed to needs of top-level managers.	meet the special	

[Chant	er ➡ 1] Automated Business Process 🔳 7.3
	 EIS provides direct on-line access to relevant information in a useful and navigable format. Relevant information is timely, accurate, and actionable about aspects of a business that are of particular interest to the senior manager. The useful and navigable format of the system means that it is specifically designed to be used by individuals with limited time, limited keyboarding skills, and little direct experience with computers. An EIS is easy to navigate so that managers can identify broad strategic issues, and then explore the information to find the root causes of those issues. EIS is mainly an advancement of MIS but it can include the Decision Support System (DSS).
Principles that guide design of measures	 An Executive Information System (EIS) is a tool that provides direct on-line access to relevant information in a useful and navigable format. EIS is a computer based information system that serves the information need of top executives. EIS enables users to extract summary data and model complex problems without the need to learn query languages, statistical formulas or high computing skills. EIS is very user friendly, supported by graphics and exception reporting and drill down capabilities. EIS provides rapid access to timely information and direct access to management reports.

7.4 Scanner C	A Inter Gr.II Paper - 7A (New Syllabus)
7 8 9	 EIS is capable of accessing both internal data and external data. EIS is easily connected to Internet (with online information services and e-mail) EIS provides extensive online analysis tool like trend analysis, market conditions etc. EIS can easily be given a DSS support for decision making. EIS is easy to navigate so that managers can identify broad strategic issues, and then explore the information to find the root causes of those issues.

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Q.1.2	RTP	Descriptive	
Discuss Executive information systems (EIS) and its components			

Discuss Executive information systems (EIS) and its components.

Answer:

Executive Information Systems (EIS):

An Executive Information System (EIS) is the nature of Information System used by executives to access and administer the data they entail to make informed business decisions. In the hierarchical structure of information systems, the EIS is at the pinnacle and is designed to renovate all significant data (from project to process to budget) into aggregated information that makes sense and brings value to the by and large business strategy. EIS is able to link data from various sources both internal and external to provide the amount and kind of information executives find useful. These systems are designed for top management; easy to use present information in condensed view; access organisation's databases and data external to the organisation.

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Components of an EIS

Components	Description
Hardware	Includes Input data- entry devices, CPU, Data Storage files and Output Devices.
Software	Includes Text base software, Database and Graphic types such as time series charts, scatter diagrams, maps, motion graphics, sequence charts and comparison- oriented graphs (i.e., bar charts) Model base.
User Interface	Includes hardware (physical) and software (logical) components by which people (users) interact with a machine. Several types of interfaces can be available to the EIS structure, such as scheduled reports, questions/answers, menu driven, command language, natural language and input/output.
Tele- communication	Involves transmitting data from one place to another in a reliable networked system.

Space to write important points for revision —

2

Enterprise Business Processes

Q.2.1	2014 - Nov [2] (a)	Descriptive
	are the various key factors to be considered in ss Process Management (BPM) in an enterprise?	

Answer:

Various key factors to be considered in implementing Business Process Management (BPM) in an enterprise are as follows:

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Factors	Key Considerations
Scope	A single process, a department, the entire company.
Goals	Process understanding, Process Improvement, Process Automation/ Optimization and Process re- engineering.
Methods to be used	Six Sigma, BPM Life Cycle Method, TQM, Informal methods.
Skills Required	Consultants, Train Employees, Formal Certification, Basic Education, Existing Skill sets.
Tools to be used	White-Boards, Sticky Notes, Software for Mapping, Documenting, Software for Simulation, Comprehensive BPMS.
Investments to Make	Training, Tools, Time.
Sponsorship/Buy-in Needed	Executive Level, Department Level, Process Owner Level, Employee Level.

Space to write important points for revision –

<i>q</i>	14 - Nov [2] (b)	Descriptive		
	What are the major reasons for failure of Business Process Management System (BPMS)? (4 marks)			

Answer:

Reason for Failure of BPMS:

- 1. The consumer is often confronted with poor customer service due to broken processes, inefficient processes and manual processes- that is the customer is often confronted (challenged) with the silos of the organisation.
- 2. The same consumer is becoming more and more demanding with respect to delivery time and also demanding higher quality of the products or services.

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- 3. The product or service is becoming more and more personalized supported by increased customer services.
- 4. Inadequate investment in ongoing training for involved personnel and deficient executive involvement.
- 5. Breakdown in gap analysis due to deficient project management.
- 6. Inefficient corporate policy protecting the integrity of data in BPMS.
- ----- Space to write important points for revision -

Q.2	2.3	2017 - Ma	y [1] {C} (a)	Descriptive	
Wr	Write any two principles of Business Process Management. (2 marks)				
Ans	wer				
Pri	Principles of Business Process Management:				
1.	Co	nciple of ntext vareness	be tailor made and should not follow cook book		
2.	Principle of ContinuityBPM should be a continuous and permanent practice. It should not be a one-off project.				

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Q.2.4 RTP Descriptive Define Business Process

Answer:

Business Process:

A Business Process Consists of a set of activities that are performed in coordination in an organizational and technical environment. These activities jointly realize a business goal. Each business process is enacted by a single organization, but it may interact with business processes performed by other organizations. To manage a process, the first task is to define it that involves defining the steps/ tasks in the process and mapping the tasks to the roles involved in the process. Once the process is mapped and implemented, performance measures are established. The last piece of the process

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management definition describes the organizational setup that enables the standardization of and adherence to the process throughout the organization.

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Q.2.5 RTP

Descriptive

During a job interview, an interviewer asked Mr. A to list out all the risks and their controls associated with Order-To-Cash (O2C) business process. Prepare an appropriate draft reply.

Answer:

Risks and Controls related to the Order to Cash (O2C) business process are as follows:

S. No.	Risks	Controls	
1.	The Customer master file might not be maintained properly and the information might not be accurate.	The Customer master file is maintained properly and the information is accurate.	
2.	Invalid changes are made to the customer master file.	Only Valid changes are made to the customer master file.	
3.	All Valid changes to the customer master file are not processed.	All Valid changes to the customer master file are processed.	

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4.	Changes to the customer master file might not be accurate.	Changes to the customer master file are made accurate.
	Changes to the customer master file are not processed in a timely manner.	Changes to the customer master file are processed in a timely manner.
5.	Customer master file data might not be up-to- date and relevant.	Customer master file data is up to date and relevant.

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Automated Business Processes

Q.3.1	2014 - N	ov [1] {C} (e)	Descriptive
What a	re the obje	ectives of business process automation	? (2 marks)
Answer	•		
The success of any business process automation shall only be achieved when BPA ensures			
Confide	entiality	To ensure that data is only available to persons who have right to see the same;	
Integrity	у	To ensure that only authorized amendments can be made in the data;	
Availab	ailability To ensure that data is available when asked for; and		asked for; and
Time lines To ensure that data is made available at the right tin To ensure that all the above parameters are met, B needs to have appropriate internal controls put in pla		rs are met, BPA	

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Q.:	3.2	2015 - Nov [1] {C} (a)	Descriptive
Me	Mention the challenges in implementing 'Business Process Automation'. (2 marks)			ss Automation'. (2 marks)
Ans	wer	•		
Cha	allen	iges in impler	nenting Business Process Auton	nation
1.	Pla	anning	It requires determining the goals, of the information system function and the means of achieving these goals.	
2.	Or	ganizing	It involves gathering, allocating and coordinating the resources needed to accomplish the goals.	
3.	Le	ading	It involves motivating, guiding and communicating with personnel.	
4.	Co	ontrolling	Comparing actual performance with planned performance as a basis for taking any corrective actions that are needed.	
5.	Nu int	crease in Imber of erface with Istomers	Since the number of interface w growing for e.g. phone, e-mail, SMS it becomes difficult to handle.	
6.	Hiç	gh Cost	It plays heavily on the budget of th	e company.

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Q.3.3	2015 - Nov [6] (b)	Descriptive
What is	meant by 'controls' in BPA? What are their major	r objectives? (4 marks)

Ans	wer:		
Bus	iness Process A	utomation Controls	
Meaning of Business Process Automation		 BPA is the basic component of an enterprise- wide automation and management scheme for both business and IT workflow. It refers to removing the human element from existing business processes by automating the repetitive or standardized process components. It ranges from automating a simple data-entry- manipulation task to building complex, automated financial management processes using existing applications. 	
Meaning of Control		 Control is defined as policies, procedures, practices and organization structure that are designed to provide reasonable assurance that business objectives are achieved and undesired events are prevented or detected are corrected. 	
Maj	or Objectives of	Controls in BPA:	
1.	1. Authorization It ensures that all transactions are approved responsible personnel in accordance with the specific or general authority before the transaction recorded.		
2.	Completeness	In ensures that no valid transactions have been omitted from the accounting records.	
3.	Validity	It ensures that all valid transactions fairly represent the economic events that actually occurred, are lawful in nature and have been executed in accordance with management's general authorization.	

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4.	Accuracy	It ensures that all valid transactions are accurate, consistent with the originating transaction data, and information is recorded in a timely manner.
5.	Physical Safeguards and Security	Ensures that access to physical assets and information systems are controlled and properly restricted to authorized personnel.
6.	Error Handling	It ensures that errors detected at any stage of processing receive prompt corrective action and are reported to the appropriate level of management.
7.	Segregation of Duties	It ensures that duties are assigned to individuals in a manner that ensures that no one individual can control both the recording function and procedures relative to processing a transaction.

Space to write important points for revision -

Q.3.4	2017 - N	lay [6] (b)	Descriptive
What a	What are the generic reasons for going for Business Process Automation? (4 marks)		
Answer			
Busine	ss Proce	ess Automation	
Meanir	ng	BPA is the basic component of an automation and management scheme for and IT workflow. It refers to removing the human eleme business processes by automating the standardized process components. automating a simple data-entry-maning building complex, automated financial processes using existing applications.	ent from existing the repetitive or lt ranges from oulation task to

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Descriptive

Ne	Need of BPA			
1.	Fast Service to customers	This was not the initial reason for adaption of BPA but gradually business managers realized that automation could help them to serve their customers faster and better.		
2.	To Remain Competitive and enhancing goodwill	To provide the level of products and services as offered by competition and thus enhancing goodwill.		
3.	Cost Saving	Automation leads to saving in time and labour costs.		
4.	Error free	To provide error free services to the customer.		
5.	Focus on key areas	Freeing people from routine and volume, and allow management to do what they are best at make decisions, analyze data implications and trends and focus on providing better customer service.		

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Q.3.5 2018 - Nov [6] (b)

State the required characteristics of goals to be achieved by implementing Business Process Automation (BPA). (2 marks)

Answer:

The characteristics of goals to be achieved by implementing Business Process Automation (BPA), being:

- S Specific
- M Measurable
- A Attainable
- R Relevant
- T Timely

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Q.3.6	2019 - May [3] (b)	Descriptive
informa	ness organization is planning to increase th tion transferred and certifies the repeatability of the rformed by the automation of business.	
Being a	management consultant, identify any four major l	penefits that the

Being a management consultant, identify any four major benefits that the organization can achieve through the automation of a business process. (4 marks)

OR	RTP	Descriptive	
Priefly discuss the henefits of Pusiness Presses Automation			

Briefly discuss the benefits of Business Process Automation.

Answer:

Major benefits that the organisation can achieve through the automation of a business process.

1.	Quality & Consistency	•	Ensures that every action is performed identically - resulting in high quality, reliable results and stakeholders will consistently experience the same level of service.
2.	Time Saving	•	Automation reduces the number of tasks employees would otherwise need to do manually. IT frees up time to work on items that add genuine value to the business, allowing innovation and increasing employees' level of motivation.
3.	Improved Operational efficiency	•	Automation reduces the time it takes to achieve a task, the effort required to undertake it and the cost of completing it successfully. Automation not only ensures systems run smoothly and efficiently, but that errors are eliminated and best practices are constantly leveraged.

[Chapter 🗯 1] Automated Business Process	
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4.	4. Governance and Reliability		The consistency of automated processes means stakeholders can rely on business processes to operate and offer reliable processes to customers, maintaining a competitive advantage.
5.	Reduced Turnaround Times	•	Eliminate unnecessary tasks and realign process steps to optimise the flow of information throughout production, service, billing and collection. This adjustment of processes distills operational performance and reduces the turnaround times for both staff and external customers.

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Q.3.7	RTP	Descriptive
		•

Discuss the steps in implementing Business Process Automation.

Answer:

The steps in implementing Business Process Automation are: Step 1: Define why we plan to implement a BPA?

The primary purpose for which an enterprise implements automation may vary from enterprise to enterprise. A list of generic reasons for going for BPA may include any or combination of the following:

- Errors in manual processes leading to higher costs.
- Payment processes not streamlined, due to duplicate or late payments, missing early pay discounts and losing revenue.
- Paying for goods and services not received.
- Poor debtor management leading to high invoice aging and poor cash flow.
- Not being able to find documents quickly during an audit or lawsuit or not being able to find all documents.
- Lengthy or incomplete new employee or new account on boarding.

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- Unable to recruit and train new employees, but where employees are urgently required.
- Lack of management understanding of business processes.
- Poor customer service.

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Step 2: Understand the rules/ regulation under which enterprise needs to comply with?

One of the most important steps in automating any business process is to understand the rules of engagement, which include following the rules, adhering to regulations and following document retention requirements. This governance is established by a combination of internal corporate policies, external industry regulations and local, state and central laws. Regardless of the source, it is important to be aware of their existence and how they affect the documents that drive the processes. It is important to understand that laws may require documents to be retained for specified number of years and in a specified format. Entity needs to ensure that any BPA adheres to the requirements of law.

Step 3: Document the Process, we wish to automate

At this step, all the documents that are currently being used need to be documented. The following aspects need to be kept in mind while documenting the present process:

- What documents need to be captured?
- Where do they come from?
- What format are they in Paper, Fax, email, PDF etc.?
- Who is involved in processing of the documents?
- What is the impact of regulations on processing of these documents?
- Can there be a better way to do the same job?
- How are exceptions in the process handled?

The benefit of the above process for user and entity being that it provides clarity on the process, helps to determine the sources of inefficiency, bottlenecks and problems and allows tore- design the process to focus on the desired result with workflow automation.

Step 4: Define the objectives/ goals to be achieved by implementing BPA

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Once the above steps have been completed, entity needs to determine the key objectives of the process improvement activities - SMART (Specific: Clearly defined, Measurable: Easily quantifiable in monetary terms, Attainable: Achievable through best efforts, Relevant: Entity must be in need of these and Timely: Achieved within a given time frame.)

Step 5: Engage the business process consultant

This is again a critical step to achieve BPA. To decide as to which company/ consultant to partner with depends upon the following:

- Objectivity of consultant in understanding/ evaluating entity situation.
- Does the consultant have experience with entity business process?
- Is the consultant experienced in resolving critical business issues?
- Whether the consultant is capable of recommending and implementing a combination of hardware, software and services as appropriate to meeting enterprise BPA requirements?
- Does the consultant have the required expertise to clearly articulate the business value of every aspect of the proposed solution?

Step 6: Calculate the Return on Investment (ROI) for project

The right stakeholders need to be engaged and involved to ensure that the benefits of BPA are clearly communicated and implementation becomes successful. Hence, the required business process owners have to be convinced so as to justify the benefits of BPA and get approval from senior management. Some of the methods for justification of a BPA proposal may include cost savings in terms of eliminating fines to be paid by entity due to delays, cost of audits and lawsuits and reduced cost of space regained from paper, file cabinets; reduction in required manpower leading to no new recruits; ensuring complete documentation for all new accounts; taking advantage of early payment discounts and eliminating duplicate payments; ensuring complete documentation for all new discounts; ensuring complete documentation for all new discounts; ensuring complete documentation for all new discounts; building business by providing superior levels of customer service and charging for instant access to records etc.

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Step 7: Developing the BPA

Once the requirements have been document, ROI has been computed and top management approval to go ahead has been received the consultant develops the requisite BPA. The developed BPA needs to meet the objectives for which the same is being developed.

Step 8: Testing the BPA

Once developed, it is important to test the new process to determine how well it works and identify where additional "exception processing" steps need to be included. The process of testing is an iterative process, the objective being to remove all problems during this phase.

Testing allows room for improvements prior to the official launch of the new process, increases user adoption and deceases resistance to change. Documenting the final version of the process will help to capture all of this hard work, thinking and experience which can be used to train new people.

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Enterprise Risk Management

Descriptive

"Enterprise Risk Management (ERM) does not create a risk-free environment; rather it enables management to operate more effectively in environments filled with risks". In view of this statement, explain the various benefits, which Board of Directors and Management of an entity seek to achieve by implementing the ERM process within the entity. (6 marks)

Answer:

Enterprise Risk Management (ERM) dose not create a risk free environment, rather it enables management to operate more effectively in environments filled with risks. The Board of Directors and Management achieve the following benefits by implementing the ERM process within the entity:

1. Align risk appetite and strategy:

Risk appetite is the degree of risk, on a broad-based level that an enterprise (any type of entity) is willing to accept in pursuit of its goals. Management considers the entity's risk appetite first in evaluating strategic alternatives, then it setting objectives aligned with the selected strategy and in developing mechanisms to manage the related risks.

2. Link growth, risk and return:

Entities accept risk as part of value creation and preservation and they expect return commensurate with the risk. ERM provides an enhanced ability to identify and assess risks, and establish acceptable levels of risk relative to growth and return objectives.

3. Enhance risk response decision:

ERM provides the rigor to identify and select among alternative riskresponses risk avoidance, reduction, sharing and acceptance. ERM provides methodologies and techniques for making these decisions.

4. Minimize operational surprises and losses:

Entities have enhanced capability to identify potential events, assess risk and establish responses, thereby reducing the occurrence of surprises and related costs or losses.

5. Identify and manage cross-enterprise risks:

Every entity faces a myriad of risks affecting different parts of the enterprise. Management needs to not only manage individual risks, but also understand interrelated impacts.

6. Provide integrated responses to multiple risks:

Business processes carry many inherent risks, and ERM enables integrated solutions for managing the risks.

7. Seize opportunities:

Management considers potential events, rather than just risks, and by considering a full range of events, management gains an understanding of how certain events represent opportunities.

8. Rationalize capital:

More robust information on an entity's total risk allows management to more effectively assess overall capital needs and improve capital allocation.

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5

Risks

Q.5.1	2017 -	Nov	[1]	{C}	(a)
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Descriptive

Risks involved in implementing Business Process Automation. (2 marks)

Answer:

Ris	Risks involved in implementing Business Process Automation					
1.	Risk to Jobs	Jobs that were earlier performed manually by several employees would post-automation would be mechanized, thereby posing a threat to jobs.				
2.	False Sense of Security	Automating poor processes will not gain better business practices.				

Space to write important points for revision –

Q.5.2	2019 - Nov [1] {C} (b)	Descriptive
How the inherent risks involved in BPA can be classifie four.		d? Discuss any (2 marks)

6

Controls

Q.6.1	2018 - May [1] {C} (e)	Descriptive
Explain the following in brief:		
Risk As	sessment	(2 marks)

Answer:

Risk Assessment

Risk may be defined as the possibility that an event will occur and adversely affect the achievement of objectives. Risk assessment involves a dynamic and interactive process for identifying and assessing risk to the achievement

of objectives. Risks to the achievement of these objectives from across the entity are considered relative to established risk tolerances. Thus, risk assessment forms the basis for determining how risks will be managed.

A precondition to risk assessment is the establishment of objectives, linked at different levels of the entity. Management specifice objectives within categories of operations, reporting and compliance with sufficient clarity to be able to identity and assess risks to those objectives. Risk assessment also requires management to consider the impact of possible changes in the external environment and within its own business model that may render internal control ineffective.

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Diagrammatic Representation of Business Processes

Q.7.1	2010 - Nov [7] (c)	Descriptive
What is	What is Program debugging ? Explain it briefly.	
OR	2013 - May [7] (ii)	Descriptive
Write s	hort note on Program Debugging	(2 marks)

Answer :

7

Program Debugging :

It is a process of finding errors in program and rectifying them by using diagnostic routine before putting the program into use. There is a real necessity to debug a program, i.e. to cleanse it from errors. For this purpose, the programmers device a set of test data transactions to test the various alternative branches in the program. The results got from the computer are compared with one derived manually prior to computer processing. When the results do not match for any reason, the programmer then verifies the flowchart and coding sheet to hunt for the bugs. This process is called program debugging.

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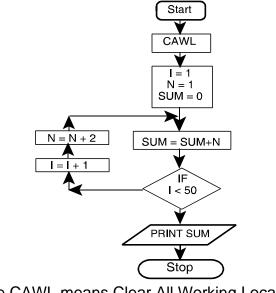
Q.7.2	2010 - Nov [5]	Descriptive		
What d	What do you mean by term flow chart? Draw a program flow chart to find the			
sum of	first 50 odd numbers.	(2 + 6 = 8 marks)		

Answer :

Flow Chart:

- Flowchart is a diagram that shows sequence of steps required to solve a particular problem.
- It is a logical flow of steps which shows sequence of operations of a program by using symbols and inter-connectivity lines. It is like a blueprint that shows the general plan and essential details of the proposed structure.
- It allows the programmer to compare different approaches and alternatives on paper and often shows inter-relationships that are not immediately apparent.

The required flowchart to find the sum of first 50 odd numbers is drawn below :



Where CAWL means Clear All Working Locations

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Q.7.3 2012 - Nov [7] (iii) Objectiv

Describe briefly System Flow Chart (2 marks)

Answer:

System Flowchart:

- System flowchart depicts the electronic flow of data and processing steps in Information systems.
- It is used by System Analysts to describe the data flow and operations for a data processing cycle.
- It defines the broad processing in the organizations.
- It shows the origin of data, filing structure, processing to be performed, output that is to be generated and necessity of any offline operation.
- Space to write important points for revision –

Q.7.4 2016 - Nov [6] (a)	Descriptive
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What is a Data Flow Diagram. Explain the four major components of a Data Flow Diagram. (4 marks)

Answer:

Types of Data Flow Diagrams (DFDs)

There are two types of Data Flow Diagrams:

- 1. Logical Data Flow Diagram.
- 2. Physical Data Flow Diagram.

	,		
1.	Logical Data	A logical DFD focuses on the business and how the	
	Flow Diagram business operates. It describes the business events		
	that take place and the data required and produced by		
	each event. The logical model reflects the business.		
2.	Physical Data	A physical DFD shows how the system will be	
1		implemented. The physical model depicts the system	

Flow Diagram implemented. The physical model depicts the system. Major Component of DFD

Data Flow Diagrams

1. Concept of Data Flow Diagram (DFD):

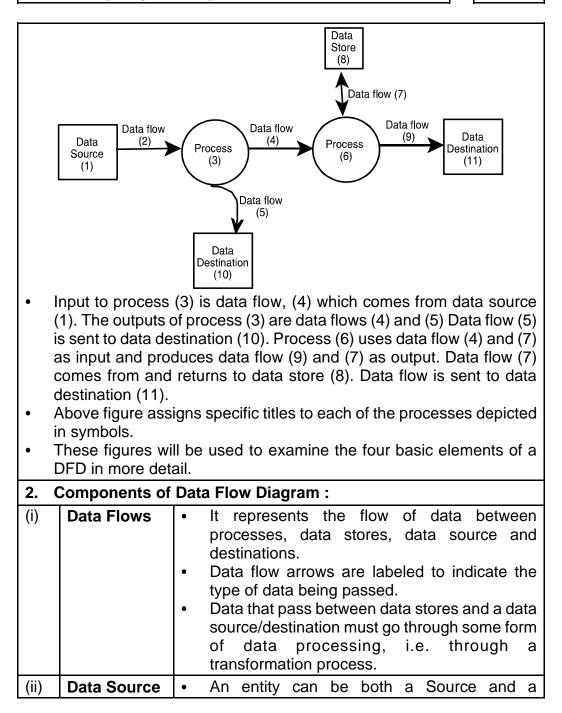
• A Data flow diagram graphically describes the flow of data within an organisation. It is used to document existing system and to plan

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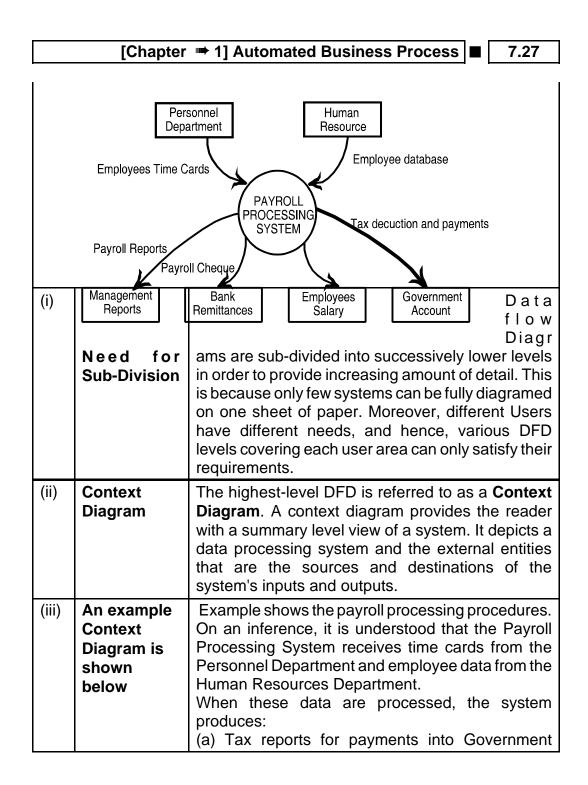
and design new ones. There is no ideal way to develop a DFD; different problems call for different methods. A DFD is composed of four basic elements : data sources and destinations, data flows, transformation processes, and data stores. Each is represented on a DFD by one of the symbols shown in figure given below.

Data Flow Diagram Symbols			
Symbol		Explanation	
	Represent Data Sources and destinations	The people and organizations that send data to and receive data from the system are represented by square boxes. Data destinations are also referred to as data sinks.	
	Represent Data flows	The flow of data into or out of a process is represented by curved or straight lines with arrows :	
\bigcirc	Represent Transformation process	The processes that transform data from inputs to outputs are represented by circles. They are often referred to as bubbles.	
	Represent Data stores	The storage of data is represented by two horizontal lines.	
These four symbols are combined to show how data are processed For Example : In data flow			

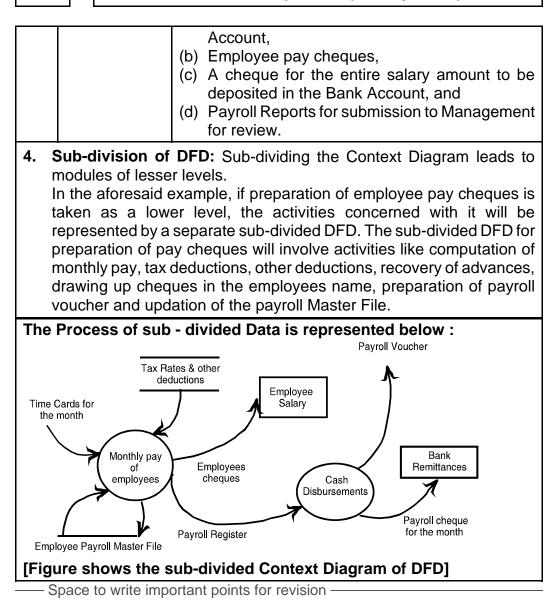
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7.26 Scanner CA Inter Gr.II Paper - 7A (New Syllabus)				
and Destinations	 Destination. A source or destination symbol on the DFD represents an organisation or individual that sends or receives data used or produced by the system. A Data Flow can consist of one or more pieces of datum. As data flow may be composed of more than one data element, it must be determined whether to show one or more lines. The determining factor is whether the data elements always flow together. 			
(iii) Processes	 Process represent the transformation of data into information. The output is sent to Data Stores or Data Destinations. 			
(iv) Data Stores	 A Data Store is a temporary or permanent repository of data. DFDs do not show the physical storage medium (disks, paper, etc.) used to store the data. Like other DFD elements, Data Store names should be descriptive. As in above figure, item (8) data store are represented by horizontal lines, with the data store's name recorded inside. 			
3. Sub-division of Data Flow Diagrams				



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Q.7.5	2018 - Nov [1] {C} (a)	Descriptive
Explain 'Data Flow Diagram'.		(2 marks)

7.29

Answer:

Data Flow Diagrams:

A Data flow diagram graphically describes the flow of data within an organisation. It is used to document existing system and to plan and design new ones. There is no ideal way to develop a DFD; different problems call for different methods. A DFD is composed of four basic elements : data sources and destinations, data flows, transformation processes, and data stores.

DFD basically provides an overview of:

- What data a system processes;
- What transformations are performed;
- What data are stored;
- What results are produced and where they flow.

It is mainly used by technical staff for graphically communicating between systems analysts and programmers.

Q.7.6 2019 - Nov [2] (a) Descriptive

Business Processes are documented / designed using flow-charts to understand the process in visualized form. Being a business advisor what advantages of flow-charts will you suggest to represent the business processes in diagrammatic form. (6 marks)

Q.7.7	RTP	Distinguish Between	
Distinguish Between Data flow of DFD and Data store of DFD.			

Answer:

Data Flow of DFD: Data Flow is the movement of data between the entity, the process and the data store. Data flow portrays the interface between the components of the DFD. The flow of data in a DFD is named to reflect the nature of the data used (these names should also be unique within a specific DFD). Data flow is represented by an arrow, where the arrow is annotated with the data name.

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Data Store of DFD: A Data store is where a process stores data between processes for later retrieval by that same process or another one. Files and tables are considered data stores. Data store names (plural) are simple but meaningful, such as "customers", "orders" and "products". Data stores are usually drawn as a rectangle with the right hand side missing and labeled by the name of the data storage area it represents, though different notations do exist.

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Q.7.8	RTP
-------	-----

Descriptive

Discuss advantages and limitations of using Data Flow Diagram.

Answer:

Advantages of using Data Flow Diagram (DFD)

- 1. It aids in describing the boundaries of the system.
- 2. It is beneficial for communicating existing system knowledge to the users.
- 3. A straightforward graphical technique which is easy to recognize.
- 4. DFDs can provide a detailed representation of system components.
- 5. It is used as the part of system documentation file.
- 6. DFDs are easier to understand by technical and nontechnical audiences
- 7. It supports the logic behind the data flow within the system.

Limitations of using Data Flow Diagram

- 1. It makes the programmers little confusing concerning the system
- 2. The biggest drawback of the DFD is that it simply takes a long time to create, so long that the analyst may not receive support from management to complete it.
- 3. Physical considerations are left out.

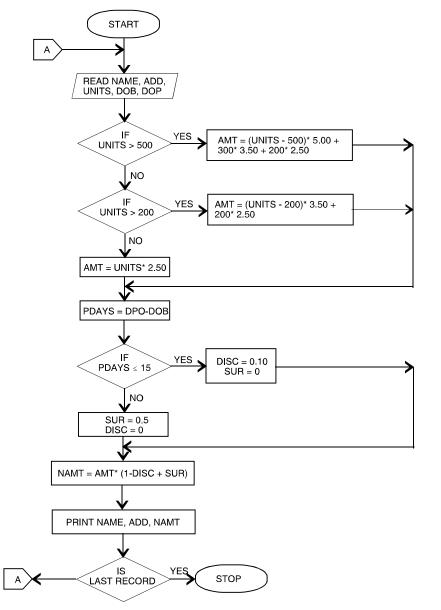
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Q.7.9 2007 - Nov [4]			Practical						
			company	charges	the	following	rates	from	its
consume No. c	-	nit consu	imed		Char	ges/unit			

7.31

	(₹)
For the first 200 units	2.50
For the next 300 units	3.50
Over 500 units	5.00
Computer database of the comp	any has the following information :
 Consumer Name 	
 Address 	
 Unit consumed 	
 Bill date 	
 Payment date 	
If the consumer pay his bill within 15	days from the bill date, 10% discount
is given. If he makes the payment a	after 15 days from the bill date, 5%
surcharge is levied. Draw a Flow cha	Int to calculate the net amount of the
bill for each consumer and print it.	(10 marks)

Answer:



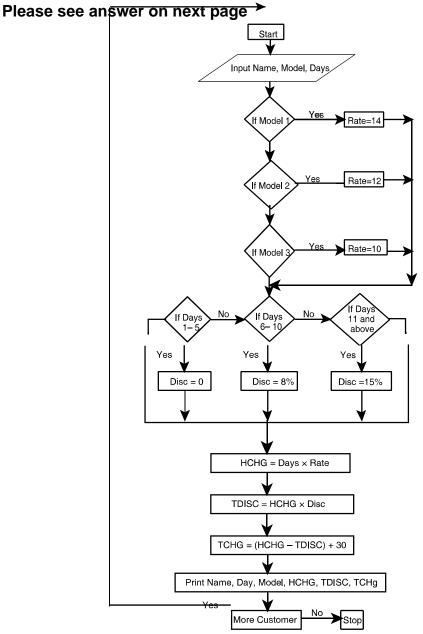
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7.33

Q.7.10	2008 - May [4]		Practical		
-	A bicycle shop in a city hires bicycles by the day at different rates for				
	models as given be				
	Model No.	Hire rate per day			
		(₹)			
	Model No. 1	14.00			
	Model No. 2	12.00			
	Model No. 3	10.00			
In order	to attract custome	rs, the shopkeeper gives a	discount on the		
number	of days a bicycle is	hired for. The policy of disc	ount is as given		
below :			-		
	No. of days	Discount rate			
	-	(%)			
	1-5	0.00			
	6-10	8			
	11 and over	15			
For ever	For every bicycle hired, a deposit of ₹ 30.00 must be paid.				
Develop a flow chart to print out the details for each customer such as					
name of the customer, bicycle model number, number of days a bicycle is					
hired for, hire charges, discount and total charges including deposits.					
		5	(10 marks)		
<u></u>			·		



Answer:

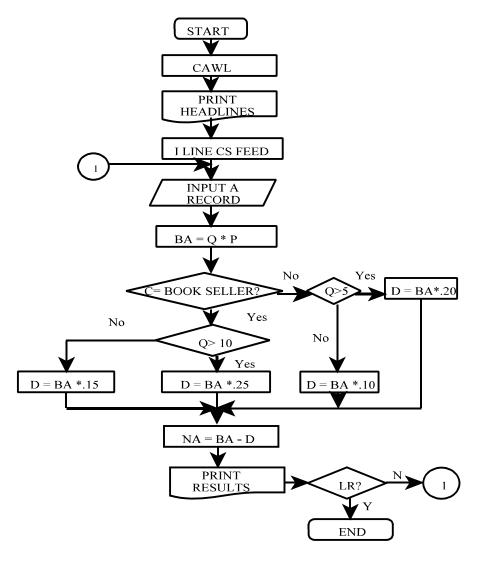


7.35

Q.7.11	2008 - Nov [4]	Practical
A Book publisher offers discount to customers on the basis of customer type and number of copies ordered as shown below:		
Custom	er type Number of Copies Ordered	% of Discount
Book Se	ller More than 10 Less than or equal to 10 More than 5 Less than or equal to 5	25 15 20 10
Customer number, name, type, book number, number of copies ordered and unit price are given as input. Draw a flow chart to calculate the net amount of the bill for each customer and print it. The above is to be carried out for 50 customers. (10 marks)		

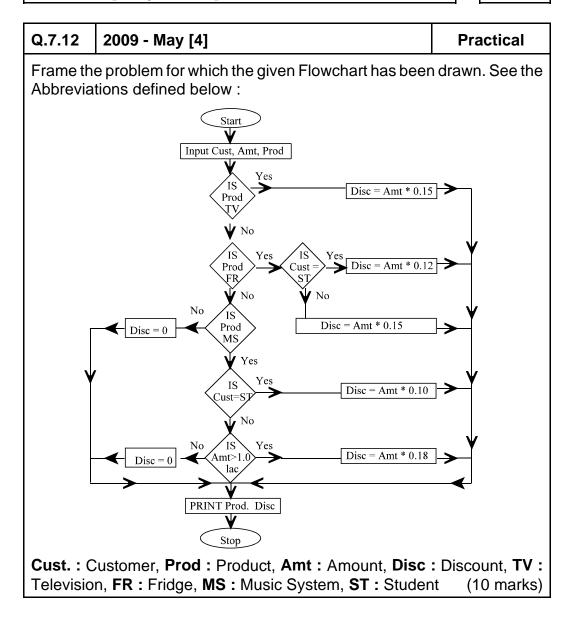
Answer:

Please see answer on next page



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7.37



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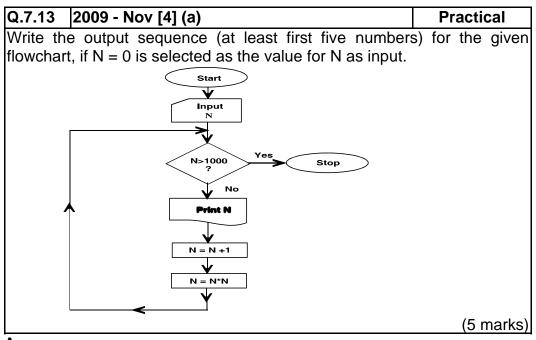
Answer:

The problem relates to 'Discount Policy' of a company engaged in selling electronic items.

Item	Category of Customer	Discount
TV	All	15%
Fridge	Student	12%*
	Others	15%*
Music System	Student	10%*
	Others	18%**

* irrespective of order value

- ** subject to order value being more than ₹ 1 lakh.
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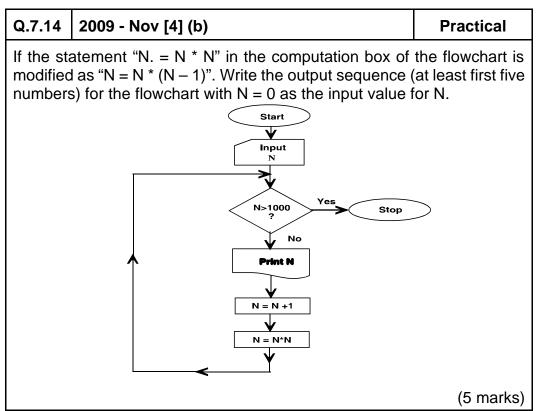


Answer :

If N = 0 then the output sequence will be :

0 1 4 25 676

Space to write important points for revision -



Answer:

If "N = N^{*} N" is modified as "N = N^{*} (-1)" with N = 0 as output, then the output sequence will be:

0 0 0 0 0 — Space to write important points for revision —

Q.7.15 2010 - May [4]

Practical

7.39

The Income-tax for the employees of an organization is calculated on the basis of their Gross Income and the Investments made by them, under Section 80C. The taxable income is calculated according to the following rules :

Taxable Income = Gross Income - Investments provided investments are

Scanner CA Inter Gr.II Paper - 7A (New Syllabus)

less than 1.5 lac. Otherwise

Taxable Income = Gross Income - 1,50,000

Following rules are applied to calculate the Income-tax, on the Taxable Income :

Taxable Income(i) 0 - 2,50,000Nil(ii) 2,50,001 - 5,00,0005%2,52,5(iii) 5,00,001 - 10,00,00012,exc

(iv) 10,00,001 - and above

Income-tax

5%, on the excess of 2,50,00012,500 + 20% on the excess of 5,00,000 1,12,500 + 30% on the

excess of 10,00,000

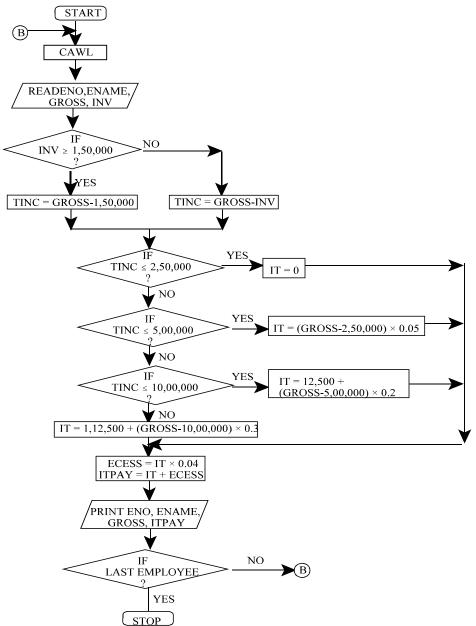
Also an educational cess of 4% of Income-tax is levied on all the employees, irrespective of the income.

Employee number, Name, Gross Income, Investment amount is given as input. Draw a flow chart to calculate the Income-tax payable by each employee. (10 marks)

7.41

Answer:

Please see answer on next page



Terms used :

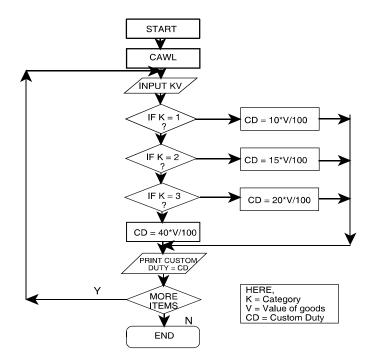
ENO = Employee Number
ENAME = Employee Name
GROSS = Gross Income
INV = Investment made
TINC = Taxable Income
IT = Income Tax
ECESS = Education Cess
ITPAY = Total Income Tax payable
CAWL = Clear All Working Locations
Space to write important points for revision

Q.7.16	2011 - May [5] (a)				ractical	
	For computing custom duty, the imported items are classified into 4 categories. The rate of duty to be levied on each category of items is given below:					
	egory	Class of goods	% custom	duty	on the (K)	
			value o	of goo	ods (V)	
1	1	Food and beverages		10		
2	2	Textile and leather goods	6	15		
3	3	Heavy machinery		20		
4	1	Luxury items		40		
Draw a f	lowchart	to compute the custom dut	зy.		(4 marks)	

Answer:

Please see answer on next page

7.43

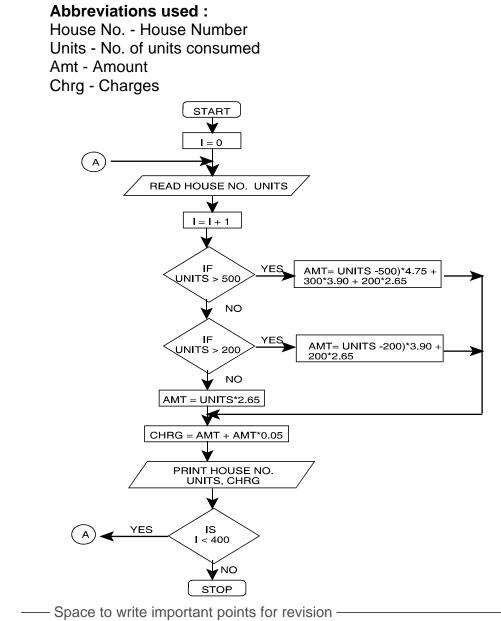


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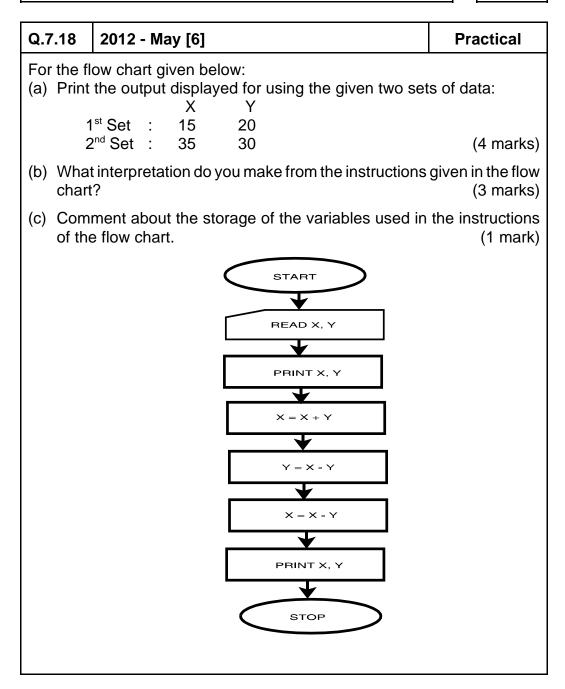
Q.7.17	2011 - Nov [6], RTP	Practical
A housin rates :	g society having 400 members pay electricity bil	lls at the following
No. of ur	nits consumed Charges/un	it
	(₹)	
For the fi	rst 200 units 2.65	
For the n	ext 300 units 3.90	
Over 500) units 4.75	
Surcharg	e @ 5% of the bill is to be added to the charges	S.
Draw a fl	ow chart which will read the house number and th	ne number of units
consume	ed. Print the total charges with the house num	ber and the units
consume	ed.	(8 marks)



Answer:



7.45



Answer:

(a)	For first set, X=1	5, Y=20	
	Instruction	Output	
	Read X, Y	15, 20	
	Print X, Y	15, 20	1 st Print
	X = X + Y	X = 15 + 20 = 35	
	Y=X-Y	Y = 35 - 20 = 15	
	X = X - Y	X = 35 - 15 = 20	
	Print X, Y	20, 15	2 nd Print
		1 st Print 15 20	
		2 nd Print 20 15	
	For second set,	X = 35, Y = 30	
	Instruction	Output	
	Read X, Y	35, 30	
	Print X, Y	35, 30	1 st Print
	X = X + Y	X = 35 + 30 = 65	
	Y = X - Y	Y = 65 - 30 = 35	
	X = X - Y	X = 65 - 35 = 30	
	Print X, Y	30, 35	2 nd Print
		1 st Print 35 30	
		2 nd Print 30 35	
	 Space to write imp 	ortant points for revision	

Answer:

(b) The given set of instructions in the flow chart is the steps for swapping/interchanging the values of two variable without involving the third variable. As clearly interpreted from the output, the values of X and Y in the both the value sets have got interchanged.

Note: The interpretation involves two important factors:

- (i) Interchange of values of two variables X and Y.
- (ii) Without involving the third or temporary storage/variable.

Space to write important points for revision —

Answer:

- (c) The comments about the storage of the variables used in the instructions of the flow chart are as follows
 - X = X + Y // The value of X has been assigned the value of (X+Y)...(i)

7.47

Y = X - Y // The value of Y has been assigned the value of (X-Y)..(ii)

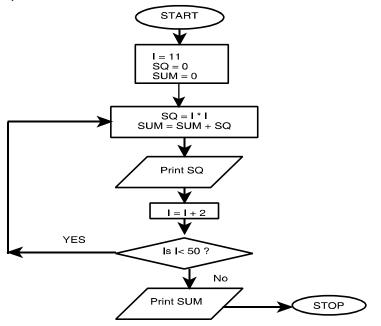
X = X - Y // The value of X has again been assigned the value of (X-Y), where the value of X and Y are calculated from the statement (i) and (ii)

Space to write important points for revision –

Q.7.19	2012 - Nov [6]	Practical
	ow chart to print the square of odd numbers be print the sum of their square.	etween 10 to 50 (8 marks)

Answer:

The required flowchart is as follows:



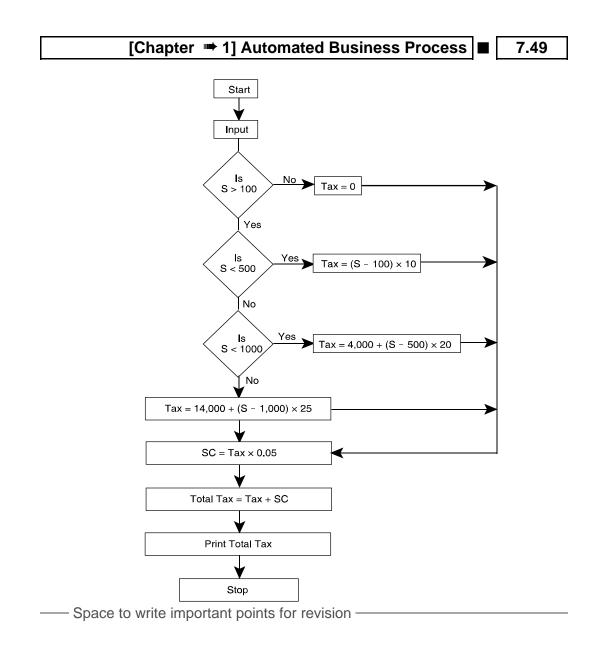
Scanner CA Inter Gr.II Paper - 7A (New Syllabus)

I: Stores the value of odd number between 10 to 50 at each step.
SQ : Stores the calculated value of square of each odd number at each step.
SUM : Stores the sum of the squares of all the odd numbers till that step.
— Space to write important points for revision —

Q.7.20	2013	- May [6] (b)		Practical
Top town	Top town Municipality, is levying annual House Tax, as per following rules			r following rules:
Size	of Hou	ise in Sq.	House ta	x rate per
Ν	/letre	-	Square N	letre
Less	than	100	Nil	
Upto	Next	400	₹ 10	
Upto	Next	500	₹ 20	
More	than '	1000	₹ 25	
There is a	a surch	arge of 5% o	f the value of House Tax. Tak	king into account
the abov	e facto	ors, draw a flo	ow chart to compute appropr	iate total House
			any one house.	(6 marks)
Apowori	-	-	-	. ,

Answer:

Please see answer on next page



Scanner CA Inter Gr.II Paper - 7A (New Syllabus)

Q.7.21	2013 - Nov [6]	Practical
Abookpu	ubligher of Information Technology offers diagours	t to ito quotomo

A book publisher of Information Technology offers discount to its customers on the basis of customer type as detailed below:

Customer Type	Discount
Book Seller	30%
Library	20%
Student	10%

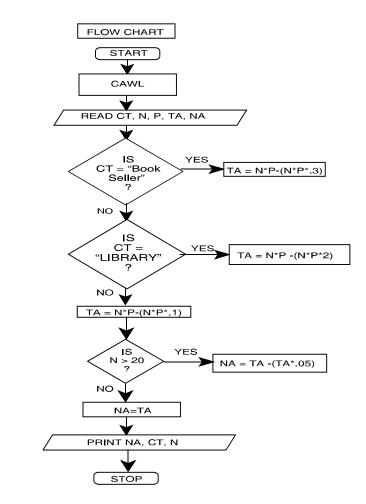
Further if number of copies purchased is more than 20, then additional discount of 5% is allowed irrespective of customer type. Number of books, unit price of each book and customer type are given as input.

Draw a flow chart to calculate the net amount after all discount and print customer type, number of copies and net amount. (8 marks)

Answer:

Please see answer on next page

7.51



— Space to write important points for revision

Q.7.22	2015 - May [2]	Practical
software of these eng after six m	ted is a software development company, which engineers in August' 2014 at a monthly salary ineers shall be entitled for an increment in their months. The increment on present monthly salar erformance to be evaluated on a 100 marks sca	of ₹ 30,000. All monthly salary y shall be based

Scanner CA Inter Gr.II Paper - 7A (New Syllabus)

given below:

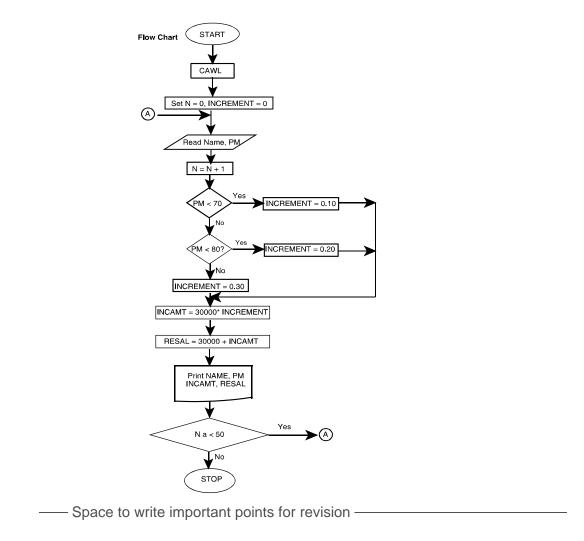
- Performance Marks < 70, then increment shall be 10% of present salary.
- 70 ≤ Performance marks < 80, then increment shall be 20% of present salary.

- Performance Marks \ge 80, then increment shall be 30% of present salary. Draw a Flow-Chart to enable to print the details like name of the engineer, performance marks, monthly increment amount and revised monthly salary for each of these 50 engineers. (8 marks)

Answer:

Let us define the variables first: PM: Performance Marks RESAL: Revised Monthly Salary, INCAMT: Increment Amount, NAME: Name of Engineer, N: Pointer to track number of Engineers, INCREMENT = 0

7.53



7.54 Scanner CA Inter Gr.II Paper - 7A (New Syllabus)

 An E-Commerce site has the following cash back offers. (i) If the purchase mode is via website, an initial discount of 10% given on the bill amount. (ii) If the purchase mode is via phone app, an initial discount of 20% given on the bill amount. (iii) If done via any other purchase mode, the customer is not eligible fany discount. Every purchase eligible to discount is given 10 reward points. (a) If the reward points are between 100 and 200 points, the customer is eligible for a further 30% discount on the bill amount. (b) If the reward points exceed 200 points, the customer is eligible for a further 40% discount on the bill amount after initial discount is given the total reward points. 	Q.7.23	3	2015 - Nov [2]	Practical			
 given on the bill amount. (ii) If the purchase mode is via phone app, an initial discount of 20% given on the bill amount. (iii) If done via any other purchase mode, the customer is not eligible fany discount. Every purchase eligible to discount is given 10 reward points. (a) If the reward points are between 100 and 200 points, the customer is eligible for a further 30% discount on the bill amount after initial discount. (b) If the reward points exceed 200 points, the customer is eligible for a further 40% discount on the bill amount after initial discount. (b) If the reward points exceed 200 points, the customer is eligible for a further 40% discount on the bill amount after initial discount. 	An E-0	An E-Commerce site has the following cash back offers.					
 given on the bill amount. (iii) If done via any other purchase mode, the customer is not eligible for any discount. Every purchase eligible to discount is given 10 reward points. (a) If the reward points are between 100 and 200 points, the customer is eligible for a further 30% discount on the bill amounafter initial discount. (b) If the reward points exceed 200 points, the customer is eligible for a further 40% discount on the bill amount after initial discount. (b) If the reward points exceed 200 points, the customer is eligible for a further 40% discount on the bill amount after initial discount. 	• • •		•	count of 10% is			
 (iii) If done via any other purchase mode, the customer is not eligible for any discount. Every purchase eligible to discount is given 10 reward points. (a) If the reward points are between 100 and 200 points, the customer is eligible for a further 30% discount on the bill amounafter initial discount. (b) If the reward points exceed 200 points, the customer is eligible for a further 40% discount on the bill amounafter initial discount on the bill amountafter initial discount on the bill amount after initial discount after initin discount after initin discount after initial discoun	• •			scount of 20% is			
 Every purchase eligible to discount is given 10 reward points. (a) If the reward points are between 100 and 200 points, the customer is eligible for a further 30% discount on the bill amounafter initial discount. (b) If the reward points exceed 200 points, the customer is eligible for a further 40% discount on the bill amount after initial discount on the bill amount after initial discount on the bill amount for a further 40% discount on the bill amount after initial discount after initial discount after initial discount after initial discount	(iii)	lf d	one via any other purchase mode, the customer	is not eligible for			
for a further 40% discount on the bill amount after initial discour Taking purchase mode, bill amount and number of purchases input, draw a flowchart to calculate and display the total rewa		Eve (a)	ery purchase eligible to discount is given 10 rew If the reward points are between 100 and 2 customer is eligible for a further 30% discount or	200 points, the			
points and total bill amount payable by the customer after all the discount calculation. (8 mark			If the reward points exceed 200 points, the cus for a further 40% discount on the bill amount afte Taking purchase mode, bill amount and number input, draw a flowchart to calculate and display points and total bill amount payable by the custo	r initial discount. of purchases as the total reward			

Answer:

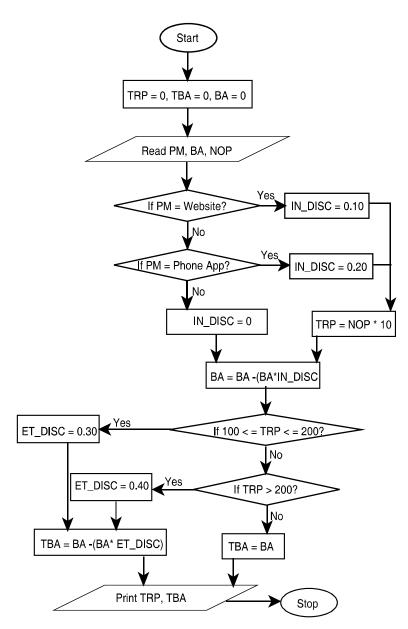
Let us define the variables first:

PM: Purchase Mode BA: Bill Amount TBA : Total Bill Amount NOP: Number of Purchases TRP: Total Reward Points

IN_DISC: Initial Discount

ET_DISC: Extra Discount on purchases eligible to Initial Discount N: Counter (to track the number of purchases)

7.55



— Space to write important points for revision -

Scanner CA Inter Gr.II Paper - 7A (New Syllabus)

Q.7.24 2016 - Nov [5]

Practical

Draw a Flowchart for the following process:

Leebay is a new e-commerce website that is setting up business in India. Leebay and their partner bank Paxis have come up with a joint promotion plan for which the following offers are proposed.

Customers can either log in through a mobile app or directly from the website:

- (1) If the payment mode chosen is 'Paxis Credit', then a 20% discount is given to the user.
- (2) If the payment mode chosen is 'Paxis Debit', then a 10% discount is given to the user.
- (3) If other payment modes are used, then no discount is given.

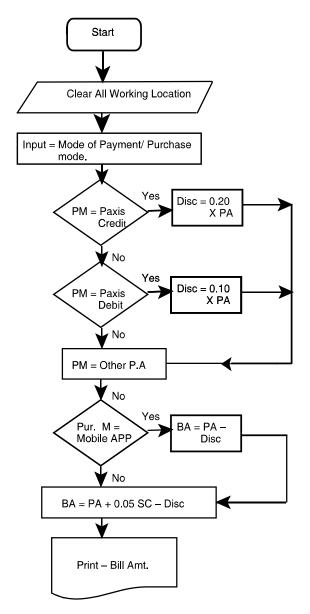
Also, to promote the downloads of its new smartphone app, the company has decided to give the following offer:

- 1. If the purchase mode is 'Mobile App', then no surcharge is levied on the user.
- 2. If any other purchase mode is used, then additional 5% surcharge is levied on the user. This surcharge is applied on the bill after all necessary discounts have been applied.

With bill amount, payment mode and purchase mode as inputs, draw a flowchart for the billing procedure for Leebay. $(1 \times 8 = 8 \text{ marks})$

Answer: Please see answer on next page



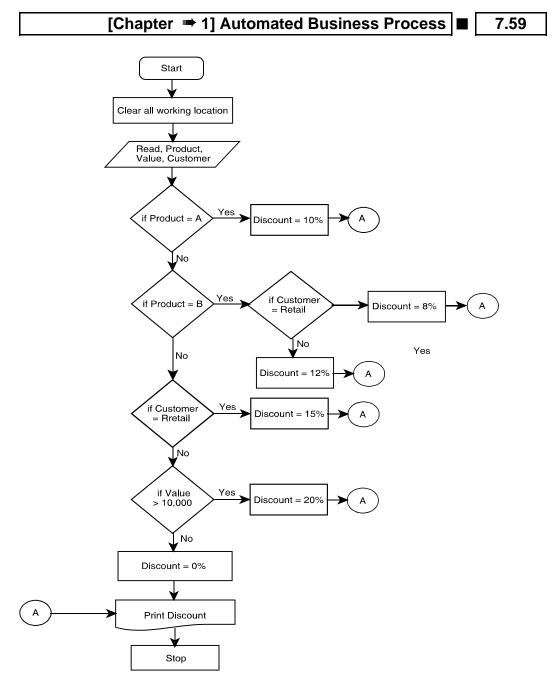


— Space to write important points for revision

7.58 Scanner CA Inter Gr.II Paper - 7A (New Syllabus)

A company is selling three types of products, namely, A, B and C different types of customers viz. dealers and retailers. To promosales, the company is offering the following discounts:	
 (i) 10% discount is allowed on Product A, irrespective of the cate customers and the value of order. 	gory of
 (ii) On product B, 8% discount is allowed to retailers and 12% di to dealers, irrespective of the value of order. 	iscount
(iii) On product C, 15% discount is allowed to retailers irrespective value of order and 20% discount to dealers if the value of or minimum of ₹ 10,000.	
Draw a flowchart to calculate the discount for the above policy.(8	marks)

Please see answer on next page



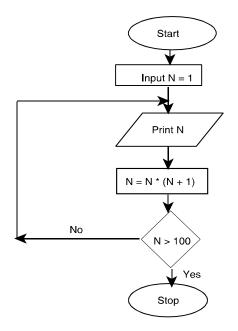
— Space to write important points for revision

Scanner CA Inter Gr.II Paper - 7A (New Syllabus)

Q.7.26 2017 - Nov [6] (a) (b) (c)	Practical
(a) Draw a flow chart to incorporate for the following step	S:
L1 N = 1	
L2 PRINT N	
L3 N = N \times (N + 1)	
L4 STOP when N exceeds 100	
L5 GOTO L2	
Note that in step L3, 'x' denotes multiplication sign.	(4 marks)
(b) List the output for the above program.	(2 marks)
(c) List the output if the above program is modified in the	step L1 as N= 0.
	(2 marks)



(a)



(b) Output = 1, 2, 6, 42

(c) Output = O (it will continue as the loop doesn't end)

- Space to write important points for revision -

7.61

Q.7.27 2018 - May [5] (a)

Practical

An e-commerce website is offering following discounts:

- If the purchase mode is via website, a discount of 5% is given on the bill amount.
- If the purchase mode is via phone app, a discount of 10% is given on bill amount.
- If purchase is done via any other mode, customer is not eligible for any discount.

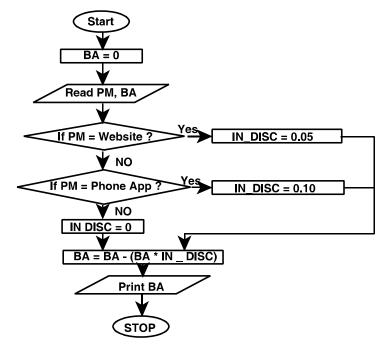
Draw a Flowchart to calculate and display the bill amount payable by the customer. (6 marks)

Answer:

Let us define variables first:

PM: Purchase Mode BA: Bill Amount

IN - DISC : Initial Discount N : Counter (to track the no. of purchases)



— Space to write important points for revision

7.62 Scanner CA Inter Gr.II Paper - 7A (New Syllabus)

Q.7.28	RTP		Practical
A bicycle shop in a city provides rental facility to its customers at different rates for different models as given below:			
	Model No. Hire Rate per day		
Model No. 1 ₹ 10)	

	X 10
Model No. 2	₹9
Model No. 3	₹8
Model No. 4	₹7

To attract customers, the shopkeeper gives a discount of 15 percent to all those customers, who hire a bicycle for more than one-week period. Further to attract women customer, he gives additional discount of 10 percent irrespective of hire period. For every bicycle hired, a security deposit of ₹ 25 must be paid. Draw a flow chart to print out the details of each customer such as name of customer, bicycle model number, number of days a bicycle is hired for, hire charges, discount and total charges including deposits.

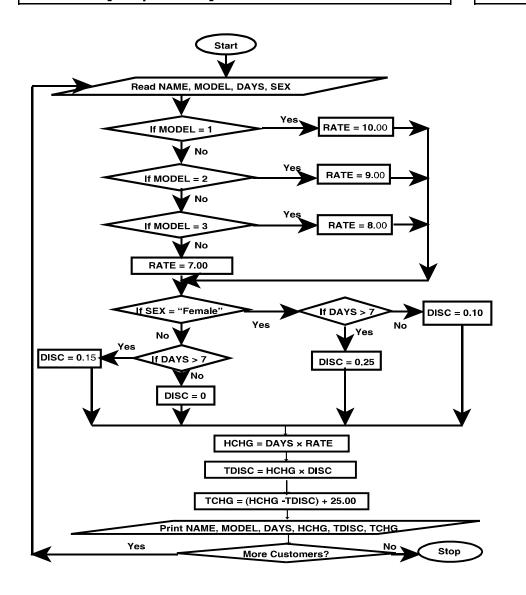
Answer:

Abbreviations used are as follows:

HCHG: Hire Charges	DAYS: No. of days a bicycle is hired for
NAME: Name of Customer	TCHG: Total Charges
MODEL: Bicycle Model No.	TDISC: Total Discount
SEX: Gender of the Customer	

The flowchart is available on the next page.

7.63



Space to write important points for revision -

Scanner CA Inter Gr.II Paper - 7A (New Syllabus)

Risks and Controls for Specific Business Processes

Q.8.1 2018 - Nov [6] (Or) (b)	Descriptive
-------------------------------	-------------

Give two examples of the Risks and Control objectives for Human Resource Process at configuration level. (2 marks)

Answer:

Example of Risks and control objectives for Human Resource Process at configuration level

• Risks objectives for Human Resource Process at configuration level:

Employees who have left the company continue to have system access. Employees have system access in excess of their job requirements.

Control objectives for Human Resource Process at configuration level:

System access to be immediately removed when employees leave the company.

Employees should be given system access based on a "need to know" basis and to perform their job function.

g	Regulatory and Compliance Requirements:
9	Companies Act 2013

Q.9.1	2019 - May [1] {C} (a)	Descriptive
a board o a compa	e governance is the framework of rules and pra of directors ensures accountability, fairness and ny's relationship with all its stakeholders. List o es that constitute corporate governance framew	transparency in ut the rules and

8

7.65

Answer:

 Corporate Governance is the framework of rules and practices by which a board of directors ensures accountability, fairness, and transparency in a Company's relationship with its all stakeholders (financiers, customers, management, employees, government, and the community). Corporate governance framework constitute the following rules and procedures :

1.	Contract	Explicit and implicit contracts between the company and the stakeholders for distribution of responsibilities, rights and rewards	
2.	Reconciling	Procedures for reconciling the sometimes - conflicting interests of stakeholders in accordance with their duties, privileges and roles, and	
3.	Supervision and Control	Procedures for proper supervision, control and information flows to serve as a system of checks and balances.	

- Space to write important points for revision -

10

Regulatory and Compliance Requirements: Information Technology Act (IT Act)

Q.10.1	2007 - Nov [7] (a)	Short Notes
	Write short note on the following : Objectives of Information Technology Act, 2000. (5 marks) [CA Final - II]	

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Answer :

Objectives of Information Technology Act. (Amended Vide ITAA, 2008):		
To grant legal recognition to	Transaction carried out through e-commerce. Electronic Signature as a method of authentication of electronic documents/ transactions. Book keeping in electronic form banks by amending Bankers' Book Evidence Act, 1891.	
To facilitate	 Electronic filing of documents with government departments. Electronic storage of data. 	
To facilitate and give legal recognition to	 Electronic funds transfer between banks and financial institutions by amending RBI Act, 1934. 	
To enable	Electronic governance	
To empower	 State/Central Government to intercept/monitor any information transmitted through any computer resource for investigation of any offence. 	
To provide for	 Protection of data security and privacy. 	
To deal with	 Electronic offences by amending Indian Panel Code, 1860 and Indian Evidence Act, 1872. 	

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Q.10.2	2018 - May [1] {C} (d)	Descriptive
Explain tl Cyber Cr	he following in brief: ime	(2 marks)

7.67

Answer:

Cyber Crimes: Cyber Crimes also known as Computer Crime is a crime that involves use of a computer and a network. Is the reputation of the victim or cause physical or mental harm, or loss, to the victim directly or indirectly using modern telecommunication networks such as Internet (chat rooms, email, notice boards and groups) and mobile phones.

— Space to write important points for revision -

Q.10.3	2018 - May [2] (b)	Descriptive
	the positive aspects contained in the IT Ac s, from the perspective of e-commerce in India.	

Answer:

From the perspective of e-commerce in India, the IT Act, 2000 and its provisions contain many positive aspects which are as follows:

- The implications for the e-businesses would be that email would now be a valid and legal form of communication in India that can be duly produced and approved in a Court of Law.
- Companies shall now be able to carry out electronic commerce using the legal infrastructure provided by the Act.
- Digital signatures have been given legal validity and sanction in the Act.
- The Act throws open the doors for the entry of corporate companies in the business of being Certifying Authorities for issuing Digital Signatures Certificates.
- The Act now allows Government to issue notification on the web thus, heralding e-governance.
- The Act enables the companies to file any form, application or any other document with any office, authority, body or agency owned or controlled by the appropriate Government in electronic form by means of such electronic form as may be prescribed by the appropriate Government.
- The IT Act also addresses the important issues of security, which are so critical to the success of electronic transactions.
- The Act has given a legal definition to the concept of secure digital signatures that would be required to have been passed through a

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system of a security procedure, as stipulated by the Government at a later date.

Space to write important points for revision -

MULTIPLE CHOICE QUESTION

1

Introduction

- 1. _____ may be defined as any kind of information system which improves the functions of an enterprise business processes by integration.
 - (a) Management Information System
 - (b) Enterprise Information System
 - (c) Enterpreneur Information System
 - (d) Corporate Information System
- 2. Enterprise Information System provide a technology platform that enable organizations to integrate and co-ordinate their business processes on
 - a____
 - (a) Robotic System
 - (b) Robotic foundation
 - (c) Robust foundation
 - (d) Robust management system
- 3. An Enterprise Information System can be used to
 - (a) increase business productivity
 - (b) reduce service cycle
 - (c) reduction in product development cycle and marketing life cycles
 - (d) All of them.

2

Enterprise Business Processes

- 4. Business Processes has been categorised
 - (a) Operational and Supporting Processes
 - (b) Management processes

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- (c) Only (a) not (b)
- (d) Both (a) and (b)
- 5. Operational processes deal with the core business and value chain, which deliver value to the customer by helping to produce a product or service. It is also known as _____.
 - (a) Primary Processes
 - (b) Secondary Processes
 - (c) Tertiary Processes
 - (d) Supporting Processes
- 6. Secondary processes is a back core processes and functions within an organisation, is also known as _____.
 - (a) Management Processes
 - (b) Operational Processes
 - (c) Supporting Processes
 - (d) Helping Processes
- 7. Processes measure, monitor and control activities related to business procedures and system, is known as _____.
 - (a) Operational Processes
 - (b) Supporting Processes
 - (c) Management Processes
 - (d) Controlling Processes
- 8. Management Processes do not provide value directly to the customer but has a direct impact on _____.
 - (a) operation of the enterprise
 - (b) efficiency of the management
 - (c) efficiency of the enterprise

3

(d) effectiveness of the enterprise

Automated Business Processes

9. _____ is the technology-enabled automation of activities that accomplish a specific function and can be implemented for many different functions of company activities including sales, management, operations, HR etc.

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- (a) Business Processes
- (b) Business Processes Technology
- (c) Business Process Automation
- (d) Automated Business Technology
- 10. Business Process Automation is a process of _____ and then automating business processes.
 - (a) analyzing
 - (b) documenting
 - (c) optimizing
 - (d) All of the above
- 11. Success of any Business Process Automation (BPA) shall only be achieved when BPA ensures the _____.
 - (a) Confidentiality
 - (b) Integrity and Availability
 - (c) Timeliness
 - (d) All of the above
- 12. The is the flow of information, customized by value-added tasks, that begins with the primary contact with a potential customer and continues through deliverance of a finished product.
 - (a) Business Process
 - (b) Business Information Process
 - (c) Business Process Automation
 - (d) Automated Business Control

4

Enterprise Risk Management

13. may be defined as a process, effected by an entity's BOD, management and other personnel, applied in strategy setting and across the enterprise, designed to identify potential events that may affect the entity, and manage risk to be within its risk appetite, to provide reasonable assurance regarding the achievement of entity objectives.

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- (a) Information Risk Management
- (b) Align Risk Appetite and Strategy
- (c) Entity's Risk Management
- (d) Enterprise Risk Management
- 14. Enterprise Risk Management provides a framework for management to
 - (a) effectively deal with uncertainty
 - (b) associated risk and opportunity
 - (c) enhance its capacity to build value
 - (d) All of the above
- 15. Enterprise Risk Management consist of _____ interrelated components. Such components are derived from the way management runs a business, and are integrated with the management process.
 - (a) Four
 - (b) Five
 - (c) Seven
 - (d) Eight
- 16. Which of the following is not a component of Enterprise Risk Management?
 - (a) Internal Management
 - (b) Event Identification
 - (c) Organisational Chart
 - (d) Objective Setting.

5

Risks

- 17. Risk is any event that may result in a significant deviation from a _____ resulting in an unwanted negative consequence.
 - (a) Planned Objective
 - (b) Unplanned Objective
 - (c) Planned Consiquences
 - (d) None of the above

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6 Controls

- 18. _____ is defined as policies, procedures, practices and organisation structure that are designed to provide reasonable assurance that business objectives are achieved and undesired events are prevented or detected and corrected.
 - (a) Risk Assessments
 - (b) Monitoring
 - (c) Operation
 - (d) Control
- 19. ____ defines the system of internal control as the plan of enterprise and all the methods and procedures adopted by the management of an entity to assist in achieving management's objective of ensuring, as far as practicable, the orderly and efficient conduct of its business.
 - (a) SA 310
 - (b) SA 315
 - (c) SA 320
 - (d) SA 700
- 20. An Internal Control System:
 - (a) Facilitate the effectiveness and efficiency of operations.
 - (b) Assists compliance with applicable laws and regulations.
 - (c) Helps safeguarding the assets of the entity.
 - (d) All of the above.
- 21. Which one of the following is not an objective of Internal Control?
 - (a) Compliance with applicable laws and regulations
 - (b) Meeting Sales Target
 - (c) Effectiveness and efficiency of operations
 - (d) Reliability of reporting.
- 22. The extent and nature of the risks to internal control vary depending on the nature and characteristics of the
 - (a) entity's information system
 - (b) entity's control system
 - (c) entity's management system
 - (d) entity's risk control system

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- 23. According to _____ explains fine components of any internal control as they relate to a financial statement audit.
 - (a) SA 300
 - (b) SA 305
 - (c) SA 310
 - (d) SA 315



Diagrammatic Representation of Business Processes

- 24. Flowcharts are used in designing and documenting simple processes or
 - (a) Progress
 - (b) Production
 - (c) Procedures
 - (d) Programs
- 25. Most common type of boxes used in a flow chart.
 - (a) A decision, usually denoted as a diamond
 - (b) A processing step, usually called activity, and denoted as a rectangular box
 - (c) A control step, usually denoted as circular box.
 - (d) Both (a) and (b)
- 26. A flowchart is described as _____ when the page is divided into different swim lanes describing the control of different organizational units.
 - (a) Activity function
 - (b) Mutual-functional
 - (c) Cross-functional
 - (d) None of the above
- 27. Data Flow Diagrams (DFD) show the flow of data or information from
 - (a) beginning to the end
 - (b) one place to another
 - (c) establishment to customer
 - (d) None of the above.

8

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Risks and Controls for Specific Business Processes

- 28. _____ is the methodical process of defining options that are provided. When any software is installed, value for various parameters should be setup as per policies and business process work flow and business process rules of the enterprise
 - (a) Master
 - (b) Transactions
 - (c) Control Objectives
 - (d) Configuration
- refer to the actual transactions entered through menus and 29. functions in the application software, through which all transactions for specific modules are initiated, authorised or approved.
 - (a) Master
 - (b) Transactions
 - (c) Control Objectives
 - (d) Configuration
- 30. A process of obtaining and managing the raw materials needed for manufacturing a product or providing a service, is known as _____.
 - (a) Purchase to Pay P2P
 - (b) Order to Cash or O2C
 - (c) Master O2C
 - (d) Transactions O2C
- 31. A set of business processes that involve receiving and fulfilling customer requests for goods or services, is called.
 - (a) Purchase to pay or P2P
 - (b) Order to cash or O2C
 - (c) Master O2C
 - (d) Transaction O2C.
- 32. A process of accurately tracking the on-hand inventory levels for an enterprise, is known as _____.
 - (a) Inventory Control
 - (b) Stock Process and Control

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- (c) Inventory Cycle
- (d) Masters-Inventory
- 33. ______ process refers to the process of recording the transactions in the system to finally generating the reports from financial transactions in the system.
 - (a) Inventory Cycle
 - (b) General Ledger
 - (c) Fixed Asset Cycle
 - (d) Master-General Ledger

9

Regulatory and Compliance Requirements

- 34. Which one of the following is not defined as Sensitive Personal Information?
 - (a) Home address
 - (b) Financial information
 - (c) Biometric information
 - (d) Password
- 35. Which one of the following deals with Section 143 of the Companies Act, 2013?
 - (a) Powers and duties of auditors and auditing standards
 - (b) Acquisition and Mergers
 - (c) Powers and duties of Board of Directors
 - (d) Penalties due to non-compliance.
- 36. _____ is the framework of rules and practices by which a board of directors ensures accountability, fairness, and transparency in a company's relationship with its all stakeholders.
 - (a) Management's Framework
 - (b) Privacy Policy
 - (c) Risk Monitoring
 - (d) Corporate Governance

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	-	-	-	-	-	-	-	-	
1.	(b)	2.	(C)	3.	(d)	4.	(d)	5.	(a)
6.	(C)	7.	(C)	8.	(C)	9.	(C)	10.	(d)
11.	(d)	12.	(a)	13.	(d)	14.	(d)	15.	(d)
16.	(C)	17.	(a)	18.	(d)	19.	(b)	20.	(d)
21.	(b)	22.	(a)	23.	(d)	24.	(d)	25.	(d)
26.	(C)	27.	(b)	28.	(d)	29.	(b)	30.	(a)
31.	(d)	32.	(C)	33.	(b)	34.	(a)	35.	(a)
36.	(d)								

ANSWER