BBA in TM, 6th Sem.

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ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT) ORGANISATION OF ISLAMIC COOPERATION (OIC)

DEPARTMENT OF BUSINESS AND TECHNOLOGY MANAGEMENT

Semester Final Examination Course No: BTM 4627 , Course Title: Enterprise Resource Planning Summer Semester, A. Y. 2022-2023 Time : 3 hours Full Marks : 150

Answer all 6 (six) questions. All questions carry equal marks. Marks of each question and corresponding CO and PO are written in the right margin within brackets.

- 1. KFC Singapore is the local chapter of the global restaurant group specializing in serving efficient meals searced with a unique birled of 11 herbs and splices. Tracing its note back to 1977, KFC Singapore is one of the first restaurant chains to open in the courty and celebrated in 35 the minorways in 2012. Exol 11, the restaurant chain decided to invert in an infrastructure that would not only serve as its accounting solution, but also provide workforw processes that could be used by all in HQ (Headquarter) employees from any device. It any time, from anywhere. Baced on the above datement source the following measion.
 - a) In which infrastructure do you think KFC Singapore invested? Explain major 13 (CO2) advantages they will get from their investment. (PO2)
 - b) To manage this transition, what kinds of common pitfalls should you consider? 07 (CO2) Explain how you can avoid them with examples. (PO2)
 - c) A lack of skilled talent in hot technology areas makes resignations, sicknesses, and 05 (CO2) geopolitical travel barriers harder to manage. To tackle these challenges, what solutions do vou suggers? Justifix it with examples.

2. Once upon a time, two firends hamched a condy wholesafe business. Then, they ran inno a problem: histinging and leyone accicula two anding summer months. After the paid designed a basi-semitive supply chain, durit broke comparises turned to them for help. The data for the start and the sta

Based on the above statement answer the following questions:

- As an IT consultant, do you think that ERP software is inflexible? Justify your 05 (CO2) opinion. (PO2)
- Based on your company's current situation, from which vendor do you suggest to 12 (CO2 buy ERP systems. Discuss advantages and disadvantages of your recommended systems.
- c) What return can a company expect from its ERP investment? How long does it take 08 (CO2) to see a return on an ERP investment? (PO2)

Ranhaxy Laboratories Ltd is one of the leading pharmaceutical companies in India, which was established in 1961. The company had used legacy systems such as Tallyon financial department, MRP-I for inventory and product planning departments and MRP-II for material requirement planning, product planning, inventory management and manufacturing. However, there were many issues with this legacy system because they were not connected among each other. Therefore, it was complex for managers to avail a streamlined flow of information. However, Ranbaxy decided to use the SAP ERP package, which was implemented to increase organization efficiency, inventory control, cost reduction, increased profit and proper business flow. Hence, with the help of SAP, all the departments generate information 'more accurately and available in real time. First, SAP divides a single process into smaller sub-process, and then after keeping track of every process and coordinated between various departments, as a result departments will identify performance earlier and appropriate decisions are made to enhance the efficiency of departments. Besides this SAP helped to reduce costs and enhanced organizational productivity by reducing labor cost, transportation cost and integration with various suppliers and vendors. The process flows after the implementation of SAP ERP system are given below:

•	Project planning and forecasting	•	Creation of (Pos)	purch	nase orders
•	Raising indent, Invoice creation	•	Receiving materials	and	delivering
	RFO (Request for Ouotation)		Manufacturin	ig requ	est

At the First step, SAP helps to know the required quantity of medicines to be manufactural doips with the data of channels of stocks. In the second step, SAP is used to inden for requisitioning of materials and identify the location where various approved weakors, then after procurement departments compare and select the best supplier bosotion cost, quality, time, highment, and ther fators, Finalized quotations are sent to the parchase department, then after procurses of operations or the set of the structure of the structure of the structure of the second weakors are sent to the finance department. SAP helps to accurate after constrained weakors are sent to the manufacture gravity and any structure of the structure order is sent to the finance department. SAP helps to accurate after constrained which are required by the manufacturing personal florangth in movies on metralistic Finally, involves are generated by SAP for the finance department and department recorded in the Center Leager. Therefore, SAP ERPs has been successfully implemented to achieve integration and increase the efficiency of the basinese process at Rankov.

Based on the above statement answer the following questions:

 a) Discuss the flow of information before the implementation of the ERP system at 08 (CO1) Ranhaxy (PO1) Describe how the SAP has helped Ranhaxy overcome its previous Problems. 08 (CO3) PO1 C Explain the process flow after the implementation of the SAP system. 09 (CO3)

- a) How do databases play a critical role in the functionality of ERP systems? Explain 09 (CO1) how programming technologies are used to customize and extend ERP software to meet specific business meets.
 - b) How do OLAP, OLTP, and ETL processes contribute to the functionality and data 08 (CO1 management of an ERP system?

c) Scenario 1:

08 (CO3) (PO4)

GizmoZone, an electronicis retailer, wants to analyze its customer data to identify groups of customers with similar partuchaing behavior, by examining patterns in customer demographics, product preferences, and parchase history, GizmoZone ains to segment is customer base into distintar groups. This segmentation will enable GizmoZone to personalize marketing campaigns, recommend products more accurately, and enhance customer staffaction.

Scenario 2:

MediCarFirst, a healthcare provider, tecks to develop a predictive model to identifyappears at risk of developing a particulum medical condition. By analyzing partient data, including medical history, diagnostic tests, and littsryle facetse, MediCarFirst instructure guestical into different risk categories. This predictive modeling will help MediCarFirst intervene early with preventive measures, improve patient outcomes, and optimize resource allocation within the healthcare system.

Based on the above scenarios, identify the types of machine learning techniques used for each scenario, and provide explanations for each. How does Artificial Intelligence connect with Machine Learning?

 Our first successful ERP implementation case study focuses on Cadbury, a 123-yearold conflectioner currently owned by American snack foods conglomerate Mondeliz International. The company was on an accelerated growth track while facing problems meeting its production and distribution requirements.

Subsequently, SAP was engaged to resolve these concerns. Along with other significant changes triggered by the ERP implementation, multi-node resources management was extended throughout its supply chain, along with a complete revamping of existing warehouse and distribution processes.

The consequent impacts allowed Cadbury to reduce overall operating costs, while its newly engaged supply chain produced significantly better production efficiencies throughout its manufacturing chain.

Based on the above statement answer the following questions:

- a) ERP serves as a platform to support business processes & business strategy, not a 05 (CO2 technical improvement. Explain IL. b) Why is it important to calculate Cost benefit analysis for ERP implementation? 08 (CO2
- b) Why is it important to calculate Cost benefit analysis for ERP implementation? V6 (20) Explain it with examples. (P0)
- c) Discuss different phases of ERP implementation life cycle. 12 (CI)

A retail chain 'ABC' places as order with Bicycic Manufacturing Co. for a shipment of bicyclose trenck their stores should for auroning cycling season. The also 'adpartment' verifies the order details, ensuring the correct models and quantifies are requested. The averhouses team the walces the bicyclose minimum, places are bicked and arranges for adparent via the company's trusted logistics partner. Manawhile, the according dopument presents the invoice of for down, including applicable taxes and shipping charges. Upon receipt of the shipment, the result chain processes the invoice and initiates present to Bicyclo Manufacturing Co. The accounting dopument receipt, ensuring acounting dopument receipt, ensuring acounting fourners' receipt.

1)	Based on the above statement answer the following questions: Distinguish between business process and business function with examples.	08	(CO1) (PO1)
9)	Discuss the types of inefficiencies (delays, etc.) associated with the manual execution of this process.	08	(CO3) (PO4)
)	To overcome current inefficiencies, what do you suggest to Bicycle Manufacturing Co. Explain how your suggested systems solve the problem of the current fulfillment	09	(CO3) (PO4)