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Bengaluru

Mid Term Examinations - October 2026

Date: 05/10/2026 **Time:** 02:00 PM - 03:30 PM

Course Code: BBE3005 **Course Name:** Emerging technologies in Logistics and Supply Chai

Semester: fifth Semester **Max. Marks:** 50 **Weightage:** 50%

CO - Levels	CO1	CO2
Marks	46	44

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	Define big data in logistics and give one example of a logistics data source.	2	CO1	BT2
2	State two ways in which an e-commerce marketplace affects logistics requirements.	2	CO1	BT2
3	State two opportunities that digital connectivity creates for logistics service providers.	2	CO1	BT2
4	Distinguish between an RFID tag and an RFID reader.	2	CO2	BT2
5	What is a logistics portal? State one use for a shipper?	2	CO2	BT2

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	(i) Explain how online order data, inventory data and delivery data help an e-commerce marketplace coordinate logistics. (ii) Describe two operational problems caused by inaccurate or delayed data.	10	CO1	BT2
7	(i) Explain how the Internet of Services allows a business to access transport, warehousing and shipment-information services. (ii) Describe two ways in which these services improve coordination between logistics partners.	10	CO1	BT2

PART C: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
8	(i) Explain how connected production schedules, inventory records and material-handling equipment support logistics in a smart factory. (ii) Illustrate how this coordination helps avoid a material shortage on a production line.	10	CO1	BT2
9	(i) A procurement team receives supplier quotations in different document formats and must identify missing information before approval. Explain how Intelligent Process Automation (IPA) can assist with extracting, interpreting and checking the information. (ii) Identify two situations that should be referred to a human buyer and explain why?	10	CO2	BT3

PTO (Please Turn Over)

PART D: Answer Any 1 Following Questions. 10 M				
Q.N.	**Questions**	**M**	**CO**	**BT**
10	(i) A company wants to replace email-based purchasing with an e-procurement process. Outline the steps from purchase requisition to payment, showing where approvals are required. (ii) Explain how supplier portal records and digital signatures can improve traceability in this process.	10	CO2	BT3
11	(i) A warehouse wants to track reusable pallets automatically as they enter and leave. Describe an RFID workflow using tags, readers and inventory-system updates. (ii) Explain how staff should handle a missed reading and a duplicate reading.	10	CO2	BT3

PART E: Answer Any 1 Following Questions. 10 M				
Q.N.	**Questions**	**M**	**CO**	**BT**
12	(i) Explain how big data can support demand planning, warehouse workload planning and delivery performance monitoring. (ii) Describe two data-quality requirements for making these uses effective.	10	CO1	BT2
13	(i) A distribution centre moves heavy pallets over fixed indoor routes and delivers small urgent packages to nearby remote locations. Explain how smart forklifts or pallet movers can support the indoor task, and drones or UAVs can support the delivery task. (ii) State one practical limitation of each selected solution and suggest an appropriate response.	10	CO2	BT2