

Let  $X$  be a feature matrix with shape (1000,5) and  $y$  be the label vector with two classes: 0 and 1. Assume that 650 examples of training data belong to class 1. Consider following code:

```
base_clf = DummyClassifier(strategy='most_frequent')
base_clf.fit(X,y)
print(base_clf.score(X,y))
```

Based on the above data, answer the given subquestions.

### Sub questions

**Question Number : 327 Question Id : 640653902611 Question Type : SA Calculator : None**

**Correct Marks : 2**

Question Label : Short Answer Question

What will be the output of the following code?

```
print(recall_score(y, base_clf.predict(X)))
```

**Response Type : Numeric**

**Evaluation Required For SA : Yes**

**Show Word Count : Yes**

**Answers Type : Equal**

**Text Areas : PlainText**

**Possible Answers :**

1

**Question Number : 328 Question Id : 640653902612 Question Type : SA Calculator : None**

**Correct Marks : 2**

Question Label : Short Answer Question

What will be the output of the following code?

```
print(precision_score(y, base_clf.predict(X)))
```

**Response Type : Numeric**

**Evaluation Required For SA : Yes**

**Show Word Count : Yes**

**Answers Type : Range**

**Text Areas : PlainText**

**Possible Answers :**

0.64 to 0.66

Section Id :	64065364082
Section Number :	14
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	21
Number of Questions to be attempted :	21
Section Marks :	30
Display Number Panel :	Yes
Section Negative Marks :	0
Group All Questions :	No
Enable Mark as Answered Mark for Review and Clear Response :	No
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	640653133741
Question Shuffling Allowed :	No

**Question Number : 329 Question Id : 640653902629 Question Type : MCQ Calculator : Yes**  
**Correct Marks : 0**

Question Label : Multiple Choice Question

**THIS IS QUESTION PAPER FOR THE SUBJECT "DIPLOMA LEVEL : BUSINESS DATA MANAGEMENT (COMPUTER BASED EXAM)"**

**ARE YOU SURE YOU HAVE TO WRITE EXAM FOR THIS SUBJECT?**  
**CROSS CHECK YOUR HALL TICKET TO CONFIRM THE SUBJECTS TO BE WRITTEN.**

**(IF IT IS NOT THE CORRECT SUBJECT, PLS CHECK THE SECTION AT THE TOP FOR THE SUBJECTS REGISTERED BY YOU)**

**Options :**

6406533040000. ✓ YES

6406533040001. ✗ NO

Sub-Section Number :	2
Sub-Section Id :	640653133742
Question Shuffling Allowed :	Yes

**Question Number : 330 Question Id : 640653902630 Question Type : MCQ Calculator : Yes**  
**Correct Marks : 1**

Question Label : Multiple Choice Question

In the economic flow, what role do households typically play?

**Options :**

6406533040002. ✗ Suppliers of capital

6406533040003. ✗ Producers of goods

6406533040004. ✓ Consumers of goods and services

6406533040005. ✗ Regulators of the economy

**Question Number : 331 Question Id : 640653902631 Question Type : MCQ Calculator : Yes**

**Correct Marks : 1**

Question Label : Multiple Choice Question

What are the roles that the Government plays in the economic circular flow model?

**Options :**

6406533040006. ✗ Producer and Consumer

6406533040007. ✗ Moderator and Participant

6406533040008. ✓ Both Producer and Consumer & Moderator and Participant

6406533040009. ✗ None of these

**Question Number : 332 Question Id : 640653902632 Question Type : MCQ Calculator : Yes**

**Correct Marks : 1**

Question Label : Multiple Choice Question

What kind of goods' demand decreases as income increases?

**Options :**

6406533040010. ✗ Superior Good

6406533040011. ✓ Inferior Good

6406533040012. ✗ Luxury Good

6406533040013. ✗ Supply Good

**Question Number : 333 Question Id : 640653902633 Question Type : MCQ Calculator : Yes**

**Correct Marks : 1**

Question Label : Multiple Choice Question

For the Data Given below, which function would you use to count the number of salespeople who exceeded both their Q1 and Q2 quotas.

	A	B	C	D
1	Salesperson	Exceeded Q1 quota	Exceeded Q2 quota	Exceeded Q3 quota
2	Kent	Yes	No	No
3	Wayne	Yes	Yes	No
4	Oliver	Yes	Yes	Yes
5	Allen	No	Yes	Yes

**Options :**

6406533040014. ✗ COUNT(A2:A5,"=Yes",C3:C5,"=Yes")

6406533040015. ✓ COUNTIFS(B2:B5,"=Yes",C2:C5,"=Yes")

6406533040016. ✖ COUNTIF(B2:B5,"=Yes",C2:C5,"=Yes")

6406533040017. ✖ COUNTA(C2:C5,"=Yes",D2:D5,"=Yes")

**Question Number : 334 Question Id : 640653902634 Question Type : MCQ Calculator : Yes**

**Correct Marks : 1**

Question Label : Multiple Choice Question

Which of the following is a comprehensive data source that covers every single household in a country?

**Options :**

6406533040018. ✖ Annual Survey of Industries

6406533040019. ✖ National Sample Survey

6406533040020. ✔ Census

6406533040021. ✖ Economic Census

**Question Number : 335 Question Id : 640653902635 Question Type : MCQ Calculator : Yes**

**Correct Marks : 1**

Question Label : Multiple Choice Question

Which of the following is an example of a non-government data source?

**Options :**

6406533040022. ✖ Economic Census

6406533040023. ✖ National Sample Survey

6406533040024. ✔ Center for Monitoring Indian Economy (CMIE)

6406533040025. ✖ Annual Survey of Industries

**Question Number : 336 Question Id : 640653902636 Question Type : MCQ Calculator : Yes**

**Correct Marks : 1**

Question Label : Multiple Choice Question

The number of heavy vehicle driving licenses issued can be used as a \_\_\_\_\_ of the potential market size for trucks. (Fill in the Blank with the appropriate response)

**Options :**

6406533040026. ✖ Lead Indicator

6406533040027. ✖ Lag Indicator

6406533040028. ✖ Supplement Indicator

6406533040029. ✔ Surrogate Indicator

**Question Number : 337 Question Id : 640653902637 Question Type : MCQ Calculator : Yes**

**Correct Marks : 1**

Question Label : Multiple Choice Question

Which of the following statements best describes the difference between a niche market and a mass market?

**Options :**

6406533040030. ✔ A niche market targets a small, specific group of customers with specialized needs, while a mass market targets a large, broad group of customers with general needs.

6406533040031. ✘ A niche market involves offering lower-priced products to a wide audience, whereas a mass market involves offering high-end products to a small, exclusive group.

6406533040032. ✘ A niche market typically requires large-scale advertising campaigns to reach a broad audience, while a mass market relies on word-of-mouth and targeted marketing.

6406533040033. ✘ A niche market focuses on standard products that appeal to everyone, while a mass market customizes products to fit individual customer preferences.

**Question Number : 338 Question Id : 640653902642 Question Type : MCQ Calculator : Yes**

**Correct Marks : 1**

Question Label : Multiple Choice Question

What does ABC analysis primarily focus on?

**Options :**

6406533040046. ✘ Classifying inventory items based on their unit cost

6406533040047. ✘ Categorizing inventory items based on their reorder points

6406533040048. ✔ Grouping inventory items based on their annual monetary usage

6406533040049. ✘ Ranking inventory items based on their lead times

**Question Number : 339 Question Id : 640653902643 Question Type : MCQ Calculator : Yes**

**Correct Marks : 1**

Question Label : Multiple Choice Question

Which of the following statements is not true about the benefits of implementing an ERP system?

**Options :**

6406533040050. ✔ Increased data redundancy

6406533040051. ✘ Improved data accuracy and consistency

6406533040052. ✘ Increased process efficiency

6406533040053. ✘ Increased visibility into business operations

**Question Number : 340 Question Id : 640653902648 Question Type : MCQ Calculator : Yes**

**Correct Marks : 1**

Question Label : Multiple Choice Question

Which of the following is typically not a component of the "job description"?

**Options :**

6406533040063. ✘ Skills required for the job

6406533040064. ✘ Key responsibilities

6406533040065. ✘ Job performance indicators

6406533040066. ✔ Recruitment process

**Question Number : 341 Question Id : 640653902649 Question Type : MCQ Calculator : Yes Correct Marks : 1**

Question Label : Multiple Choice Question

PayLater has suddenly started running into losses. Which of the following reasons can explain the sudden losses based on the graph shown below?



**Options :**

6406533040067. ✖ Decrease in the declining rate of credit applications

6406533040068. ✖ Increase in the approval rate of credit applications

6406533040069. ✔ Both Decrease in the declining rate of credit applications & Increase in the approval rate of credit applications

6406533040070. ✖ None of these

**Question Number : 342 Question Id : 640653902650 Question Type : MCQ Calculator : Yes Correct Marks : 1**

Question Label : Multiple Choice Question



Company Orange wants to recruit Software Engineers for its new project. The hiring manager was tasked with choosing the appropriate hiring channel. The manager collected previous hiring data (provided in the table below) to help narrow down the appropriate channel. All channels advertised for the vacant positions on the same day. Which channel has the worst selection success rate? The Selection success rate is defined as the no. of candidates selected to the no. of applications shortlisted

Recruitment Channels	Application Received in 14 days	Application Shortlisted	No. of Candidates appeared for Interview	No. of Candidates Selected	Cost of Advertisement for 14 Days (INR)
Employee Referrals	40	32	24	12	120000
Direct Company Website	60	12	8	2	5000
Social and Professional Media	260	36	16	4	20000
Hiring Portals	220	90	30	6	100000
Print Ads	20	10	8	1	50000

**Options :**

- 6406533040071. ✓ Hiring Portals
- 6406533040072. ✗ Social and Professional Media
- 6406533040073. ✗ Print Ads
- 6406533040074. ✗ Employee Referrals

**Question Number : 343 Question Id : 640653902652 Question Type : MCQ Calculator : Yes Correct Marks : 1**

Question Label : Multiple Choice Question  
When should A/B test be done?

**Options :**

- 6406533040079. ✓ After deploying the model in real world
- 6406533040080. ✗ After training the model, before testing on test data
- 6406533040081. ✗ Before training the model
- 6406533040082. ✗ Before deploying the model in real world

**Question Number : 344 Question Id : 640653902653 Question Type : MCQ Calculator : Yes Correct Marks : 1**

Question Label : Multiple Choice Question  
How do online payment companies make money?

**Options :**

- 6406533040083. ✗ Interest from loans/credit
- 6406533040084. ✗ Transaction fees (a small cut from the transaction)
- 6406533040085. ✗ Monthly subscription

6406533040086. ✓ Both Interest from loans/credit and transaction fees

**Question Number : 345 Question Id : 640653902654 Question Type : MCQ Calculator : Yes Correct Marks : 1**

Question Label : Multiple Choice Question

What role does personalized recommendation play in nudging consumers on e-commerce sites?

**Options :**

6406533040087. ✗ To display clickbaits and flashy products to increase website traffic

6406533040088. ✗ To offer the same discounts to all customers, ensuring fairness

6406533040089. ✓ To suggest products based on browsing history, increasing the likelihood of purchase

6406533040090. ✗ To highlight best-selling products only, irrespective of the user's interest

**Sub-Section Number :**

3

**Sub-Section Id :**

640653133743

**Question Shuffling Allowed :**

Yes

**Question Number : 346 Question Id : 640653902647 Question Type : MCQ Calculator : Yes Correct Marks : 2**

Question Label : Multiple Choice Question

Match the Following

1. A form created by HR that outlines the budgetary details, skills and capabilities required etc. of the employee required.	a. Appraisal
2. Organization source talent by asking their existing employees to recommend candidates from their existing networks.	b. Indent
3. The process of evaluating an employee's current and/or past performance.	c. Job description
4. A quick summary of what the role is expected to do, key responsibilities etc.	d. Employee referral

**Options :**

6406533040059. ✓ 1-b,2-d,3-a,4-c

6406533040060. ✗ 1-d,2-b,3-c,4-a

6406533040061. ✗ 1-a,2-c,3-b,4-d

6406533040062. ✗ 1-c,2-a,3-d,4-b

**Question Number : 347 Question Id : 640653902651 Question Type : MCQ Calculator : Yes Correct Marks : 2**

Question Label : Multiple Choice Question

A customer makes a transaction through an online payments platform 'PayKaro' using 'BCCI Bank Credit Card' in Klipkart to buy a shoe. Which of the following is true chronologically?

**Options :**



6406533040075. ✖ Customer pays BCCI, BCCI pays Klipkart, Klipkart pays PayKaro  
 6406533040076. ✔ BCCI pays PayKaro, PayKaro pays Klipkart, Customer pays BCCI  
 6406533040077. ✖ Customer pays BCCI, BCCI pays PayKaro, PayKaro pays Klipkart  
 6406533040078. ✖ Customer pays PayKaro, PayKaro pays BCCI, BCCI pays Klipkart

Sub-Section Number : 4  
 Sub-Section Id : 640653133744  
 Question Shuffling Allowed : No

Question Id : 640653902638 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix Calculator : None

Question Numbers : (348 to 350)

Question Label : Comprehension

Based on the data provided, answer the given subquestions

SKU	Product Name	Unit Price	Monthly Sales						Avg. Monthly Sales	Opening Stock
			1	2	3	4	5	6		
LAP001	NovaBook Pro	\$1,299	100	120	150	180	200	220	161.7	290
LAP002	Stellar 15	\$1,799	80	90	100	110	120	130	105.0	250
LAP003	QuantumBook 16	\$2,499	50	60	70	80	90	100	75.0	190
LAP004	TitanBook X1 Carbon	\$1,999	30	40	50	60	70	80	55.0	115
LAP005	EclipseBook x360	\$1,499	20	30	40	50	60	70	45.0	95
LAP006	AuroraBook Studio	\$1,199	10	15	20	25	30	35	22.5	50
LAP007	ZephyrBook 17	\$999	5	10	15	20	25	30	17.5	40

### Sub questions

Question Number : 348 Question Id : 640653902639 Question Type : MCQ Calculator : Yes Correct Marks : 2

Question Label : Multiple Choice Question

Which SKU has the highest Days of Inventory?

Options :

6406533040034. ✖ LAP002  
 6406533040035. ✔ LAP003  
 6406533040036. ✖ LAP006  
 6406533040037. ✖ LAP007

Question Number : 349 Question Id : 640653902640 Question Type : MCQ Calculator : Yes Correct Marks : 2

Question Label : Multiple Choice Question

If the profit margin for the sale of a laptop is 10%, what is the total profit earned from the sale of

LAP005?

**Options :**

6406533040038. ✖ 42505

6406533040039. ✖ 40890

6406533040040. ✖ 41782

6406533040041. ✔ 40473

**Question Number : 350 Question Id : 640653902641 Question Type : MCQ Calculator : Yes**

**Correct Marks : 1**

Question Label : Multiple Choice Question

What percentage of total revenue do the SKUs LAP004 and LAP005 contribute together?

**Options :**

6406533040042. ✖ 10%

6406533040043. ✔ 20%

6406533040044. ✖ 15%

6406533040045. ✖ 25%

**Question Id : 640653902644 Question Type : COMPREHENSION Sub Question Shuffling  
Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix  
Calculator : None**

**Question Numbers : (351 to 352)**

Question Label : Comprehension

The Data given is of Shaktimaan Industries who manufacture specialized components for Aerospace application for the month of August 2024.

- The factory functions for 2 shifts on weekdays and only one shift on Saturdays.
- Assume a scrap rate of 10% per shift. For example, if a shift produces 152 components, the scrap will be  $0.1 \times 152 = 15.2$ .  
However, since 15.2 scrap components makes no sense, consider it as 16.
- The Assembly line was designed for a rated capacity of 125 units per shift.

AUGUST 2024						
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
			1 216	2 244	3 139	4 Holiday
5 212	6 282	7 248	8 278	9 284	10 Power Cut	11 Holiday
12 PM*	13 242	14 296	15 Holiday	16 288	17 106	18 Holiday
19 208	20 244	21 212	22 276	23 208	24 123	25 Holiday
26 206	27 272	28 UPM**	29 260	30 270	31 188	

\*PM – Planned Maintenance  
\*\*UPM – Unplanned Maintenance

Based on the above data, answer the given subquestions.

Sub questions

Question Number : 351 Question Id : 640653902645 Question Type : SA Calculator : None  
Correct Marks : 3

Question Label : Short Answer Question  
What is the OEE for the Friday shifts?  
(express in terms of %, e.g., if answer is 0.7359, express it as 73.59)

Response Type : Numeric  
Evaluation Required For SA : Yes  
Show Word Count : Yes

Answers Type : Range  
Text Areas : PlainText

Possible Answers :  
92.5 to 93.5

Question Number : 352 Question Id : 640653902646 Question Type : MCQ Calculator : Yes

**Correct Marks : 2**

Question Label : Multiple Choice Question

What is the MAPE of the Thursday shifts?

**Options :**

6406533040055. ✓ 0.1

6406533040056. ✗ 0.15

6406533040057. ✗ 0.2

6406533040058. ✗ 0.25

## Business Analytics

Section Id :	64065364083
Section Number :	15
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	16
Number of Questions to be attempted :	16
Section Marks :	45
Display Number Panel :	Yes
Section Negative Marks :	0
Group All Questions :	No
Enable Mark as Answered Mark for Review and Clear Response :	No
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	640653133745
Question Shuffling Allowed :	No

Question Number : 353 Question Id : 640653902655 Question Type : MCQ Calculator : Yes

**Correct Marks : 0**

Question Label : Multiple Choice Question

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**Options :**

6406533040091. ✓ YES

6406533040092. ✗ NO