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Vendor:SASInstitute

Exam Code:A00-240

Exam Name:SAS Certified Statistical Business
Analyst Using SAS 9: Regression and Modeling
Credential

Version:Demo

QUESTION 1

An analyst generates a model using the LOGISTIC procedure. They are now interested in getting the sensitivity and specificity statistics on a validation data set for a variety of cutoff values. Which statement and option combination will generate these statistics?

- A. Score data=valid1 out=roc;
- B. Score data=valid1 outroc=roc;
- C. mode1 resp(event= \"1\") = gender region/outroc=roc;
- D. mode1 resp(event"1") = gender region/ out=roc;

Correct Answer: B

QUESTION 2

Identify the correct SAS program for fitting a multiple linear regression model with dependent variable (y) and four predictor variables (x1-x4).

- A.

```
proc reg data=SASUSER.MLR;
  var y x1 x2 x3 x4;
  model y = x1-x4;
run;
```
- B.

```
proc reg data=SASUSER.MLR;
  model y = x1-x4;
run;
```
- C.

```
proc reg data=SASUSER.MLR;
  model y = x1;
  model y = x2;
  model y = x3;
  model y = x4;
run;
```
- D.

```
proc reg data=SASUSER.MLR;
  model y = x1 x2 x3 x4 /solution;
run;
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 3

A non-contributing predictor variable ($P > |t| = 0.658$) is added to an existing multiple linear regression model.

What will be the result?

A. An increase in R-Square

B. A decrease in R-Square

C. A decrease in Mean Square Error

D. No change in R-Square

Correct Answer: A

QUESTION 4

The SAS data set RESULT contains the following variables:

1.

Region (GrpA or GrpB)

2.

Sales (dollars per year)

Which SAS programs can be used to find the p-value for comparing GrpA sales with GrpB sales? (Choose two.)

- A. `proc ttest data = RESULT;
 class Region;
 var Sales;
run;`
- B. `proc ttest data = RESULT;
 class Region;
 model Sales = Region;
run;`
- C. `proc glm data = RESULT;
 class Region;
 model Sales = Region;
run;`
- D. `proc glm data = RESULT;
 class Sales;
 model Sales = Region;
run;`

A. Option A

B. Option B

C. Option C

D. Option D

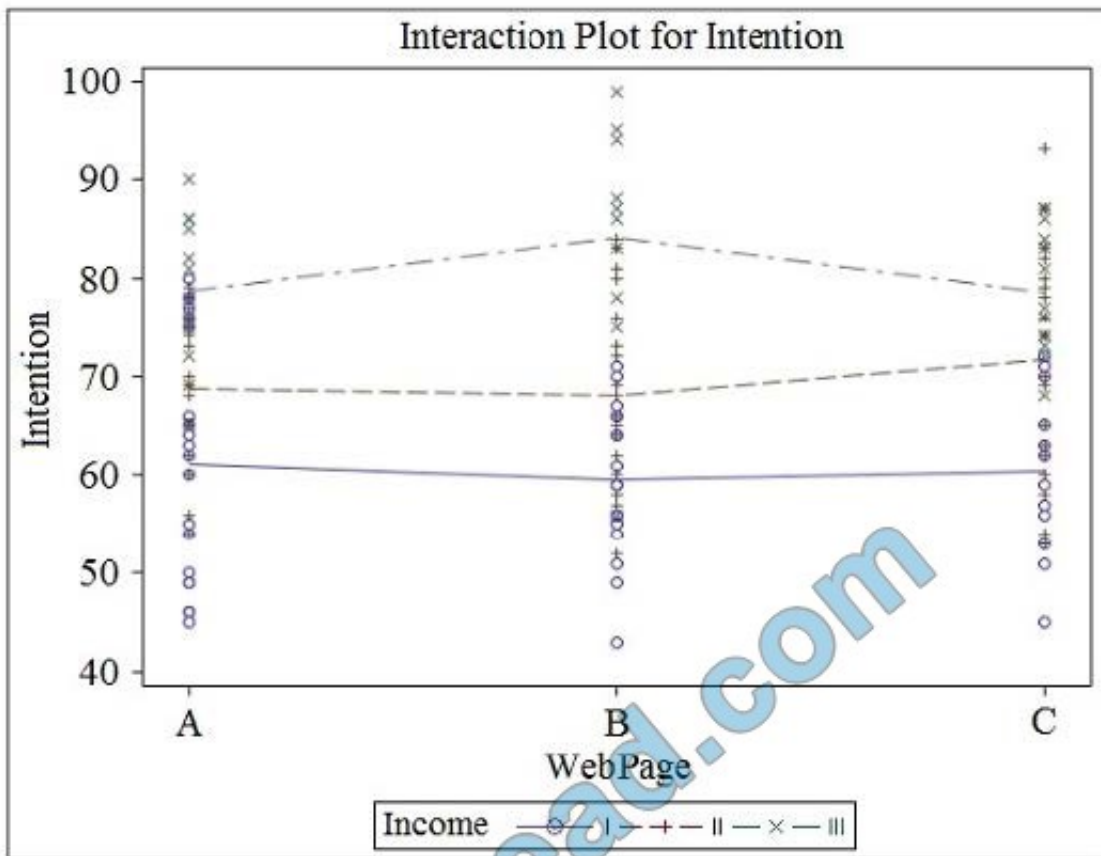
Correct Answer: AB

QUESTION 5

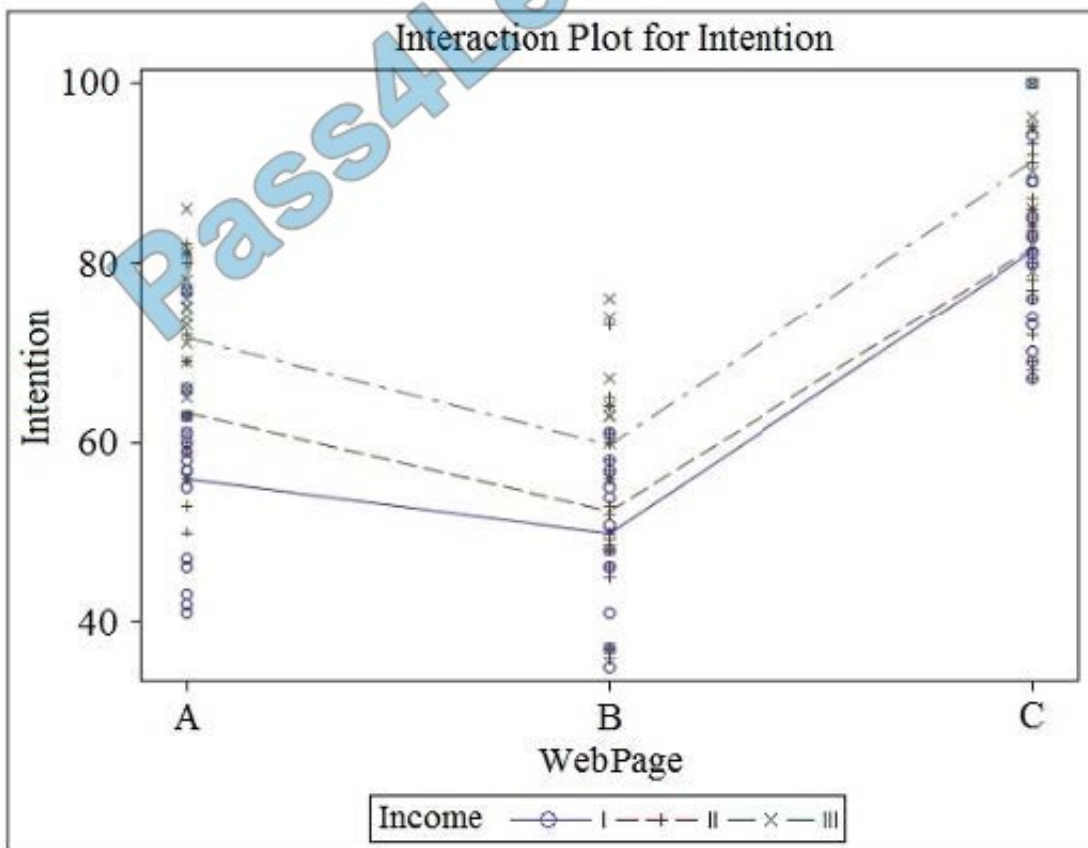
A marketing analyst assessed the effect of web page design (A, B, or C) on customers' intent to purchase an expensive product. The focus group was divided randomly into three sub-groups, each of which was asked to view one of the web pages and then give their intent to purchase on a scale from 0 to 100. The analyst also asked the customers to give their income, which was coded as: I (lowest), II (medium), or III (highest). After analyzing the data, the analyst claimed that there was significant interaction and the webpage design mainly influenced high income people.

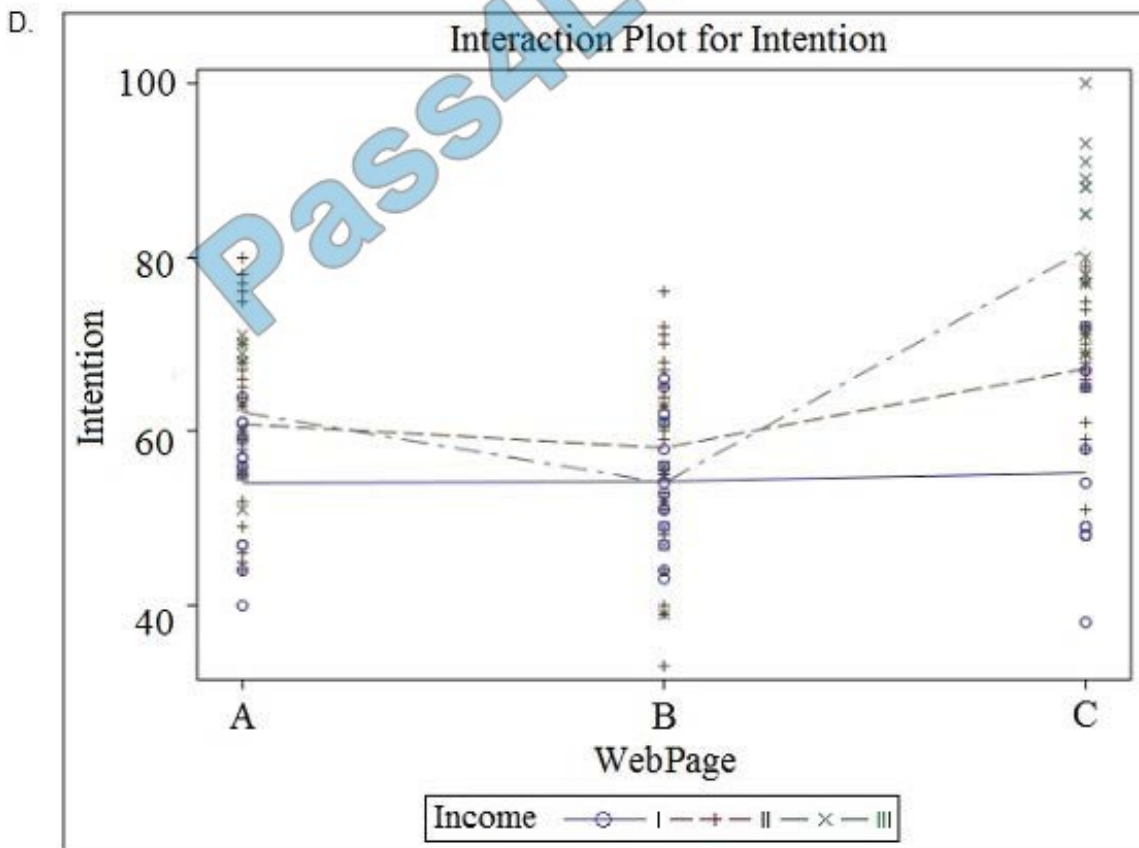
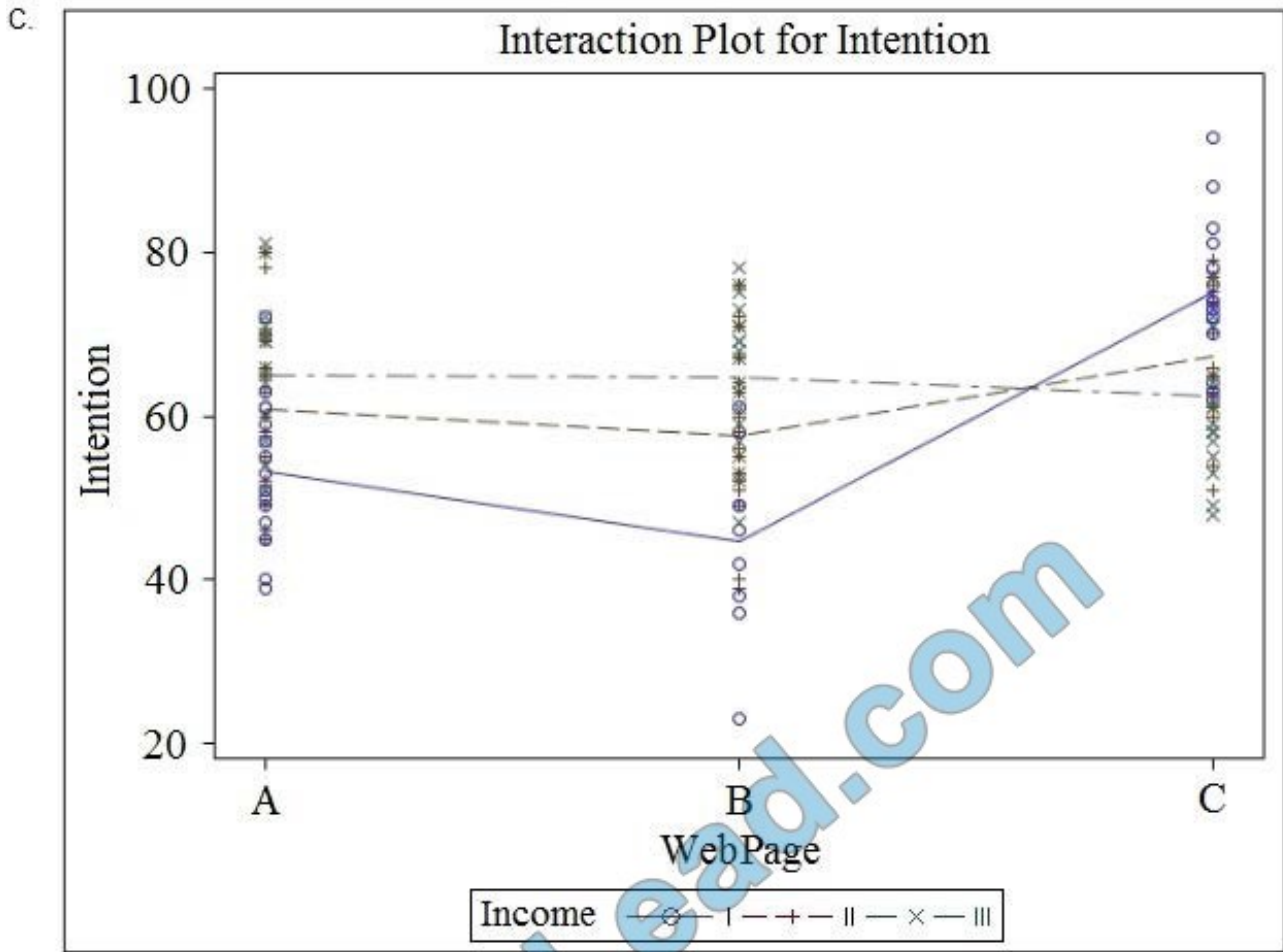
Which graph supports the analyst's conclusion?

A.



B.





A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

QUESTION 6

An analyst knows that the categorical predictor, storeId, is an important predictor of the target.

However, store_id has too many levels to be a feasible predictor in the model. The analyst wants to combine stores and treat them as members of the same class level.

What are the two most effective ways to address the problem? (Choose two.)

A. Eliminate store_id as a predictor in the model because it has too many levels to be feasible.

B. Cluster by using Greenacre's method to combine stores that are similar.

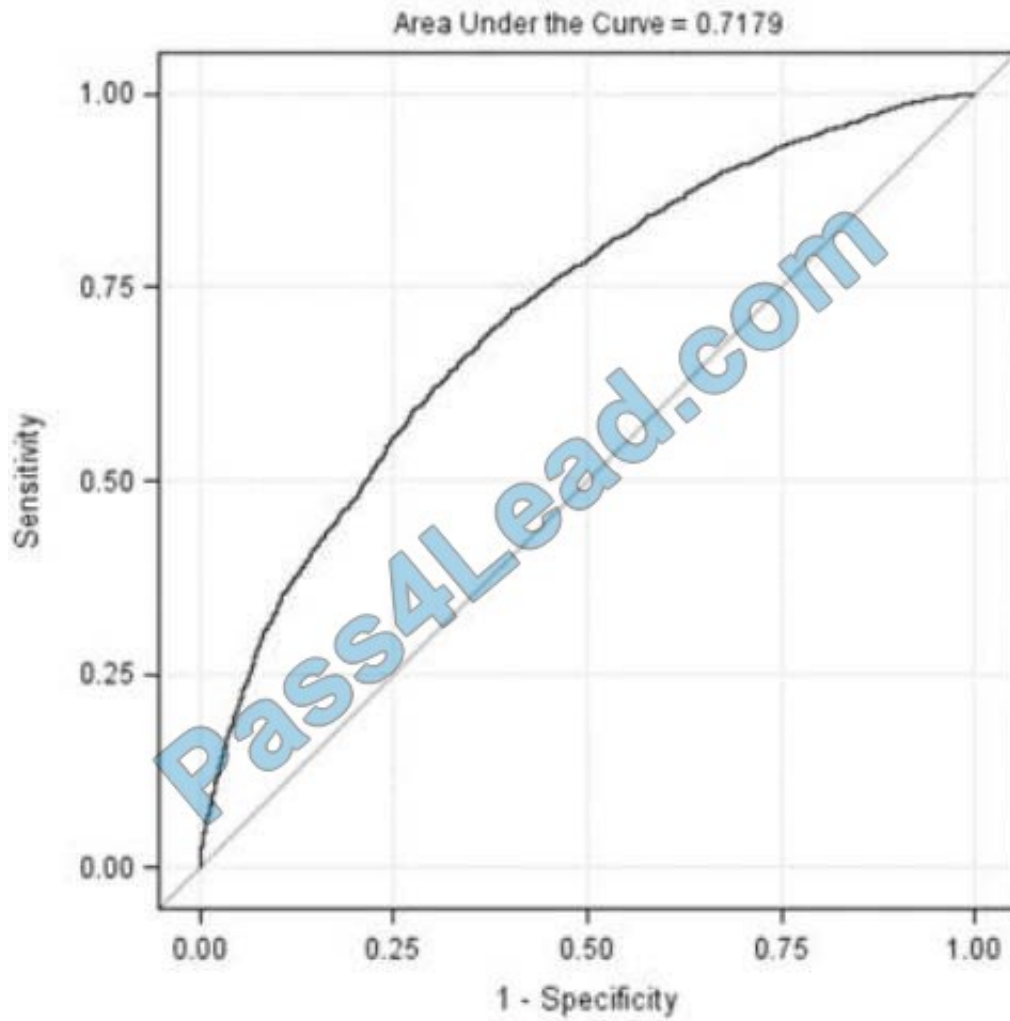
C. Use subject matter expertise to combine stores that are similar.

D. Randomly combine the stores into five groups to keep the stochastic variation among the observations intact.

Correct Answer: BC

QUESTION 7

Refer to the ROC curve:



As you move along the curve, what changes?

- A. The priors in the population
- B. The true negative rate in the population
- C. The proportion of events in the training data
- D. The probability cutoff for scoring

Correct Answer: D

QUESTION 8

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Refer to the REG procedure output:

Analysis of Variance

<i>Source</i>	<i>DF</i>	<i>Sun of Squares</i>	<i>Mean Square</i>	<i>F Value</i>	<i>Pr > F</i>
<i>Model</i>	3	33033	11011	115.63	<.0001
<i>Error</i>	496	47231	95.22454		
<i>Corrected Total</i>	499	80265			

Calculate the coefficient of determination, R-Square.

Enter your numeric answer in the space below. Round to 4 decimal places (example: n.nnnn).

Correct Answer: 0.5671

QUESTION 9

The question will ask you to provide a missing statement. Given the following SAS program:

```
proc logistic data = MYDIR.DEFAULT_DATA des;  
  model Purchase = Money Acct_type Debt Employment;  
  <insert statement here>  
run;
```

Which SAS statement will complete the program to correctly score the data set NEW_DATA?

- A. Score data data=MYDIR.NEW_DATA out=scores;
- B. Score data data=MYDIR.NEW_DATA output=scores;
- C. Score data=HYDIR.NEU_DATA output=scores;
- D. Score data=MYDIR, NEW DATA out=scores;

Correct Answer: D

QUESTION 10

A financial services manager wants to assess the probability that certain clients will default on their Home Equity Line of Credit (HELOC). A former employee left the code listed below.

```

proc logistic data = MYDIR.HELOC des outest=MSG;
  model DEFAULT = amount job_code years_at_residence;
run;

proc score data = MYDIR.RECENT_HELOC
  out = SCORED_HELOC
  score = MSG
  type = parms;
  var Amount Job_code Years_at_residence;
run;

```

The training data set is named HELOC, while a similar data set of more recent clients is named RECENT_HELOC. Which SAS data steps will calculate the predicted probability of default on recent clients? (Choose two.)

- A. data NEW_PROB;
 set SCORED_HELOC;
 $p = 1 / (1 + \exp(-DEFAULT))$;
 run;
- B. data NEW_PROB;
 set SCORED_HELOC;
 $ODDS = \exp(DEFAULT)$;
 $p = ODDS / (1 + ODDS)$;
 run;
- C. data NEW_PROB;
 set SCORED_HELOC;
 $p = (1 + \exp(DEFAULT)) / \exp(DEFAULT)$;
 run;
- D. data NEW_PROB;
 set SCORED_HELOC;
 $p = DEFAULT / (1 + DEFAULT)$;
 run;

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: AB

QUESTION 11

Refer to the REG procedure output:

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	33033	11011	115.63	<.0001
Error	496	47231	95.22454		
Corrected Total	499	80265			

Click on the calculator button to display a calculator if needed.

- A. 0.4115
- B. 0.6994
- C. 0.5884
- D. 0.1372

Correct Answer: A

QUESTION 12

Refer to the exhibit:

Number in Model	R-Square	Adjusted R-Square	C(p)	AIC	Root MSE	SBC	Variables in Model
1	0.7434	0.7345	13.6988	64.5341	2.74478	67.40210	RunTime
1	0.1595	0.1305	106.3021	101.3131	4.96748	104.18108	RestPulse
2	0.7642	0.7474	12.3894	63.9050	2.67739	68.20695	Age RunTime
2	0.7614	0.7444	12.8372	64.2740	2.69337	68.57597	RunTime RunPulse
3	0.8111	0.7901	6.9596	59.0373	2.44063	64.77326	Age RunTime RunPulse
3	0.8100	0.7889	7.1350	59.2183	2.44777	64.95424	RunTime RunPulse MaxPulse
4	0.8368	0.8117	4.8800	56.4995	2.31159	63.66941	Age RunTime RunPulse MaxPulse
4	0.8165	0.7883	8.1035	60.1386	2.45133	67.30850	Age Weight RunTime RunPulse
5	0.8480	0.8176	5.1063	56.2986	2.27516	64.90250	Age Weight RunTime RunPulse MaxPulse
5	0.8370	0.8044	6.8461	58.4590	2.35583	67.06288	Age RunTime RunPulse RestPulse MaxPulse
6	0.8487	0.8108	7.0000	58.1616	2.31695	68.19952	Age Weight RunTime RunPulse RestPulse MaxPulse

SAS output from the RSQUARE selection method, within the REG procedure, is shown. The top two models in each subset are given. Based on the exhibit, which statement is true?

- A. The AIC champion model is more parsimonious than the SBC champion.

B. The SBC champion model is more parsimonious than the AIC champion.

C. The R-Square champion model is the most parsimonious.

D. Adjusted R-Square and R-Square agree on the champion model.

Correct Answer: B

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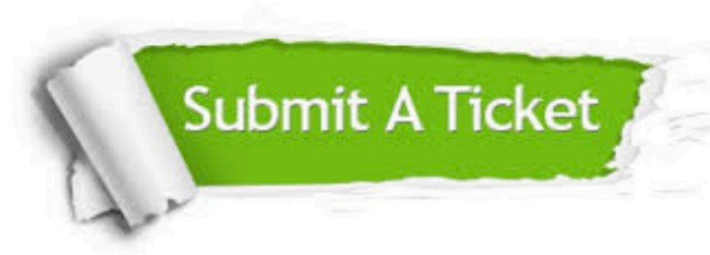
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