Assessment Procedure

Certificate Course in Statistical Analysis in Research using SPSS- CPCC13

The students were assessed by a descriptive exam and practical. The exam was out of 40 and practical was out of 10. The minimum pass mark for the exam was 20 and, for the practical, it was 5. Those who secured a minimum in both the exam and the practical qualified this course. The following are the sample question paper:

CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA
PG DEPARTMENT OF COMMERCE
Value Added Certificate Course Examination March 2019
SPSS Training

Examination mode: Theory and Practical

Date: 8-3-2019
Max Mark: 50

01. You need to produce a variety of data files that will be viewed in external applications outside of IBM SPSS Modeler Professional, such as IBM SPSS Statistics or Microsoft Excel.
Which palette tab would be used in this scenario?
a) Output
b) Export
c) Source
d) Modeling

02. What is a unique capability of scripting in IBM SPSS Modeler Professional?
a) SuperNode creation
b) Process automation
c) Model customization
d) Output formatting

03. Which two functions are used in the Select and Filler nodes to identify missing values?
(Choose two.)
a) @BLANK
b) @PREDICTED
c) @NULL
d) @INDEX

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04. You want to obtain a subset of data from a larger data set, with equally represented subgroups within the subset.
Which node would you use to accomplish this task?
a) Analysis node
b) Partition node
c) Ensemble node
d) Sample node

05. What is a type of SuperNode within IBM SPSS Modeler Professional?
a) Terminal
b) Output
c) Import
d) Classification

06. Your data contains a large number of fields which have very long names. You want to rename these fields without having to manually edit them.
Which option from the Filter option menu, within the Filter node, allows you to accomplish this task?
a) Truncate Field Names...
b) Rename for IBM SPSS Statistics...
c) Use Input Field Names...
d) Rename Duplicate...

07. You have two data sets whose data is related but does not contain any candidate key. When these data sets were created, their entries were recorded as events occurred, always one entry in each data set per event.
Which merge method should be used to perform this merge?
a) anti-join
b) order
c) keys
d) inner join

08. Which statement is correct about the nodes in the Field Ops tab?
a) The Filler node can be used to derive a new nominal field.
b) The Derive node must be used to replace all the null values in a data set by zero, without creating a new field.
c) A Derive node can only generate one new derived field at a time.
d) The SetToFlag node can be used to create indicator variables based on the categorical values defined for one or more nominal fields.

09. A manufacturer has a business goal of reducing product returns due to poor product quality which is known to occur as a result of random mechanical malfunctioning.
Which data mining goal is consistent with the business goal?
a) Classify customers into segments for a target marketing campaign.
b) Use predictive maintenance to schedule machine repairs prior to failure.
c) Identify which customers are likely to default on their accounts.
d) Conduct market basket analysis to determine which products to promote.

10. You are working on a project where the business objective is to increase sales revenue. You are about to start the Deployment stage of the CRISP-DM process model.
Which task must be completed before the Deployment stage?
a) plan deployment
b) review project
c) review process
d) produce final report

Practical

Q1

Suppose that, over the years, forecasters have determined the temperatures for each of the 28 days of the month are as follows. Use this data for questions date high temp.

high temp.

date	1	2	3	4	5	6	7	8	9	10
high temp	29	27	36	32	35	36	28	42	25	20
date	11	12	13	14	15	16	17	18	19	20
high temp	28	26	25	32	30	32	27	39	20	24

1. What type of t-test compares the mean of this data to the mean of, representing the mean over time?
2. Input data into SPSS and perform the appropriate t-test. What is the value of t?
3. What is the value of p?
4. Write a short summary of the results based upon α=.05, making reference to p.

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