PSTAT 130 Midterm1 (1hr 20mins) – Summer 2017
Version A

Name _____   Perm ID_____

I confirm that I will not use SAS, notes, books, cheat sheet, cell-phones and I will not cheat in
PSTAT130 midterm Exam. (sign here) _____.

Multiple Choice Questions:

1. A SAS dataset can be referenced by
A.   one level name
B.   two level name
C.   three level name
D.   either one or two level name

2. The Enhanced Editor allows you to:
A.   Edit SAS statements
B.   Execute SAS programs
C.   Display results of executed SAS programs
D.   A and B

3.   What does the following SAS code output?   *proc print; run;*
A.   All the SAS steps before this step.
B.   The SAS step immediately following this step
C.   The last successfully created data set
D.   None of the above

4. Will this following SAS program work?
      data WORK.TEST;
      infile Name $ Age;
      datalines;
      John 35
      run;
A.   It will not work because of the data statement
B.   It will not work because of the infile statement
C.   It will not work because of the datalines statement
D.   It will not work because of Name is a standard variable

5. Number of nonstandard variables in the table

Name	Salary	DOB
Sam Lakers III	$43,000	11/01/1980
John James Sr.	$45,000	09/12/1979
Queen Elizabeth IV	$53,000	21/05/1950

A． 0

B. 1

C. 2

D. 3

6. Which of the following is not a valid SAS system option?

A. date

B. ps

C. pagenum

D. nonumber

7. Which of the following is an example of list input?

A. input name $ 1-15 salary 17-24 age 25-27;

B. input name $ salary age;

C. input name $16. @17 salary 8. @25 age 3.;

D. input name $16. +2 salary 8. age 3.;

8. Which of the following is not a property of titles?

A. An unnumbered TITLE is equivalent to TITLE1

B. You can have 15 title statements

C. They remain in effect until they are changed

D. None of the above (all are correct)

9. Which of the following is not a property of labels?

A. Can be defined in both the data and proc steps

B. Requires a $ for character variables

C. Replaces variable names as column headings

D. None of the above (all are true)

10.   Which of the following creates a library named student that points to 'c:\user\student'?

A. libname 'c:\user\student';

B. library student 'c:\user\student'

C. library student 'c:\user\student';

D. libname StuDent 'c:\user\student';

11. The WHERE statement can be used

A. In the PROC step

B. In the DATA step

C. Outside of the steps

D. A and B

12. Which of the following statements is not equivalent to the others?

A.   where name ^ LIKE '%LI%';

B.   where name <> CONTAINS 'LI';

C.   where name <> LIKE '%LI_';

D.   where name ~ CONTAINS 'LI';

13. Which of the following is not a property of SAS statements?

A.   One or more blanks can be used to separate words

B.   A single statement can span multiple lines

C.   They are not free-format

D.   They can begin and end in any line

14. Which of the following is NOT a valid SAS data set name?

A.   4thquarter

B.   quart4er

C.   _4quarter

D.   quarter4

15. Which of the following are valid conditional statements?

A.   if Salary GE $50000;

B.   if weather = rainy; then rain = 1;

C.   where color='blue';

D.   All of the above

16. The following statements are true about proc print, except

A.   Can print labels

B.   Requires a user specified input SAS data set

C.   Can output a report

D.   Prints observation numbers by default

17. Which of the following is a valid source of data?

A.   Outside software

B.   Existing SAS data set

C.   Data entry

D.   All of the above

18. In SAS 9.4 (Windows environment) the default output is:

A.   Listing

B.   HTML

C.   XLS

D.   A and B

19. Which of the following statements is not used when reading in raw data?

A.   input

B.   infile

C. datalines

D. set

20. Choose the best statement below that selects rows from a dataset in which <u>both</u> of the following conditions are <u>not</u> met
   the amount is less than   15000
   the amount is less than   10000.

A.   if amount < 15000 and amount < 10000;

B.   where amount < 10000 and amount < 15000;

C.   where amount >= 15000;

D.   where amount < 10000;

21. What is the correct input statement to read the following data from datalines?

```
SALLY CA 26 MARKETIN
TEMPLE SC 33 SALES
DUDE MN 30 PARTYING
PEGRO NY 25 FINANCE
```

A.   INPUT name $ State $ Age $ Department $;

B.   INPUT name $6. State $2. Age 2. Department $7.;

C.   INPUT name $ State $ Age 2. Department;

D.   INPUT name $ State $ Age Department $;

22. What is the correct but simple input statement to read the following data from datalines?

```
Avery     John     $6,101.23
Davison  Sherrill $723.15
Holbrook Grace    $48.76
Jansen    Mike     $6,238.42
```

A.   INPUT LASTNAME $8. @10 FIRSTNAME :$8. @19 SALARY dollar10.2;

B.   INPUT LASTNAME $ FIRSTNAME $ SALARY DOLLAR10.2;

C.   INPUT LASTNAME $ FIRSTNAME $ SALARY $;

D.   INPUT @1 LASTNAME $8.   @9 FIRSTNAME $8.   @20 SALARY dollar10.2.;

23 . If you want to sort an existing SAS dataset named Insurance by the variable claims in ascending order, and store the sorted data in the existing data Insurance, which of the steps should you submit?

A. proc sort data=insurance out=insurance; by claims ascending; run;

B. proc sort data=insurance out=insurance; var claims; run;

C. proc sort data=insurance out=insurance ascending; var claims; run;

D. proc sort data=insurance out=insurance; by claims; run;

24. Which statement incorrectly calculates bonus is equal to 10% of the salary variable?

A. bonus = salary*10%;

B. bonus = salary*.10;

C. bonus = salary - (salary*0.9);

D. bonus = salary/10;

25. You would use KEEP or DROP to

A. restrict observations to a SAS dataset

B. restrict observations included in any PROC PRINT

C. restrict variables included in any SAS dataset

D. restrict variables included in any PROC statement

26. Which of the following programs correctly references a SAS data set named SalesAnalysis
    that is stored in a permanent or built-in SAS library?

A. data salesanalysis.saleslibrary;
     set mydata.quarterlsales;
     If sales>100000;
     run;

B. data mysales.totals;
     set sales_99.salesanalysis;
     if totalsales>50000;
     run;

C. proc print data=salesanalysis.quarter1;
     var sales salesrep month;
     run;

D. proc print data=work.salesanalysis;
     var sales salesrep month;
     run;

27. How does SAS store Date values?

A.   As Character variables

B.   As Dates, in the form of MMDDYY

C.   As Numeric variables, representing the number of days since Jan 1, 1900

D.   As Numeric variables, representing the number of days since Jan 1, 1960

28. Which of the following statements correctly selects observations from a data set where
    the value of the variable Style is RANCH, SPLIT, or TWOSTORY?
    A. where style = 'RANCH' or 'SPLIT' or ' TWOSTORY';
    B. where style in 'RANCH' or 'SPLIT' or ' TWOSTORY';
    C. where style = (RANCH, SPLIT, TWOSTORY);
    D. where style in ('RANCH', 'SPLIT', 'TWOSTORY');

29. In SAS, a period represents
    A. a missing value for a Numeric variable
    B. a missing value for a Character variable

C. any missing value

D. the end of a programming statement

30. In a DATA Step, you would use a _____ statement to read in an existing SAS data set, a _____ statement to read data from an external raw data file, and a _____ statement to read data that is embedded within the DATA step program.

A. INFILE, SET, DATALINES

B. DATALINES, SET, INFILE

C. SET, DATALINES, INFILE

D. SET, INFILE, DATALINES

Programming Questions:

1. Write a program that permanently changes the variable name EmpID to EID at first, and then set label 'Employment ID' to this variable, in the data set work.empdata. Do not use a DATA step.

2. Write a program that creates a SAS data set named work.oscars from the worksheet oscars in the Excel file entertainment.xls. This file is located in the folder 'C:\Desktop\data'. Make sure to replace a similarly named file if one exists. Place the title "2014 Oscar Winners" on the top of each page.