Program Summary - FinalProject.sas

Execution Environment

Author: sasdemo

File: /folders/myfolders/HW124/FinalProject/FinalProject.sas

SAS Platform: Linux LIN X64 2.6.32-754.6.3.el6.x86_64

SAS Host: LOCALHOST SAS Version: 9.04.01M6P11072018

SAS Locale: en_US

Submission Time: 2/22/2020, 4:07:18 PM

Browser Host: 10.0.2.2

User Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/80.0.3987.87 Safari/537.36

Application Server: LOCALHOST.LOCALDOMAIN

Code: FinalProject.sas

```
/*Import FormA csv file into SAS as work.FormA */
proc import datafile = "/folders/myfolders/HW124/FinalProject/FormA.csv" dbms=csv
   out = work.FormA replace;
run;
/*Import FormB csv file into SAS as work.FormB */
proc import datafile = "/folders/myfolders/HW124/FinalProject/FormB.csv" dbms=csv
   out = work.FormB replace;
run:
/*Import Domains_FormB csv file into SAS as work.Domains_FormB */
proc import datafile = "/folders/myfolders/HW124/FinalProject/Domains FormB.csv" dbms=csv
   out = work.Domains_FormB replace;
run;
/*Import Domains_FormA csv file into SAS as work.Domains_FormA */
proc import datafile = "/folders/myfolders/HW124/FinalProject/Domains FormA.csv" dbms=csv
   out = work.Domains_FormA replace;
run;
/*Set macro variable to create Form A or Form B */
%let file_form = A;
/*create two tables (one for form A and one for form B) that display whether students got each question correct */
/*Part 1 */
data correct&file_form;
    set Form&file_form;
    array Form&file form(150) $ 01-0150;
    array answer(150) $ Answer1-Answer150;
    retain Answer1-Answer150;
    Form = "&file_form";
    if Student = "BBBBKEY" or Student = "AAAAKEY" then do i = 1 to 150;
        answer(i) = Form&file_form(i);
    end;
    else do Question = 1 to 150;
        if answer(Question) = Form&file_form(Question) then Scores = 1;
        else Scores = 0;
        keep Student Scores Question Form;
        output;
    end;
run:
/* proc print data = correct&file_form (OBS = 10) noobs; */
/* run; */
/*Part 2 */
/*Merge the two tables (FormA and Domains_FormA) */
proc sql;
   create table work.Form_merged_&file_form as
    select Question, Scores, Student, Form, DomainNum
    from correct&file_form inner join Domains_Form&file_form
```

```
on Question = QuestionNum;
run;
/*Print merged employees and employees_sales table */
/* title "FormA and Domains FormA Merged"; */
/* proc print data = work.Form_merged_&file_form noobs; */
/* run; */
/*Part 3 */
/*Combine the two tables (Form_merged_A and Form_merged_B) into one table (Form_AB) */
data Form_AB;
   set Form_merged_A Form_merged_B;
    output Form_AB;
run:
/*Part 4 */
/*Calculate the totalscore and percent for each student.Also calculate the student's score and percentage foreach of the five
proc means data = Form_AB mean sum nonobs noprint;
   var Scores;
   class Student DomainNum;
   id Question Form;
   output out = means_Form_AB mean = percent sum = Student_Scores;
run:
/*Delete missing values, change Student to numeric, and keep variables */
data means_Form_AB;
    set means_Form_AB;
    Student = input(Student, 8.);
   if Student <= .Z then delete;</pre>
   keep percent Student_Scores Student Form DomainNum
run:
/*Part 5 */
/*Sort the table created in Step 4 (means_Form_AB) by Student */
proc sort data = means_Form_AB out = sorted_Form_AB;
   by Student;
run;
/* proc print data= sorted Form AB; */
/* run; */
/*Part 6 */
/*Using the table (wide_sorted), create another table where each row contains all of the student scores/percentages (converti
data wide_sorted;
    set sorted_Form_AB;
    array sorted array(*) TotalPer TotalScore D1Per D1Score D2Per D2Score D3Per D3Score D4Per D4Score D5Per D5Score;
   retain TotalPer TotalScore D1Per D1Score D2Per D2Score D3Per D3Score D4Per D4Score D5Per D5Score;
   by Student:
   if first.Student then i = 0;
   i + 1;
   sorted_array(i) = percent;
    i + 1;
    sorted array(i) = Student Scores;
    if last.Student then output;
    drop i;
run;
/*Part 7 */
/*Create side-by-side boxplots of the five domains using student percentages as the response */
/* proc sgplot data=sorted_Form_AB; */
/* vbox percent/category=DomainNum; */
/* xaxis label = "Domain"; */
/* yaxis label = "Percent"; */
/* run; */
/*Part 8 */
/*Calculate the percentage correct for each question */
proc means data = Form AB mean nonobs noprint;
   var Scores;
    class Question Form;
    id Question Form;
    output out = means_Question mean = Scores;
run:
/*Delete missing data */
```

```
data clean_Question;
    set means_Question;
    if Form = ' ' then delete;
   if Question <= .Z then delete;</pre>
run:
/*Sorted data by Form */
proc sort data = clean_Question out = sorted_Question;
   by Form;
run:
/* proc print data= sorted_Question; */
/* run; */
/*Part 9 */
/*Output as pdf file */
/*Create a final report with two sections as described below */
ods pdf file = "/folders/myfolders/HW124/FinalProject/FinalProject.pdf";
options nodate nonumber;
/*Reorder columns, set format as percentae, and label columns*/
data reorder_wide_sorted;
   retain Student Form TotalScore TotalPer D1Score D1Per D2Score D2Per D3Score D3Per D4Score D4Per D5Score D5Per;
    set wide_sorted;
    format TotalPer D1Per D1Per D2Per D3Per D4Per D5Per percent10.1;
    label TotalScore = "Overall Score" TotalPer = "Overall Percentage" D1Score = "Domain 1 Score" D1Per = "Domain 1 Percentage"
run:
/*Print a table sorted by Student ID */
title "Section A: Student Scores Sorted by Student ID";
proc print data = reorder_wide_sorted (drop = percent DomainNum Student_Scores ) noobs label;
/*Reorder columns, set format percentage, and label columns*/
data order_wide_sorted;
   retain Student Form TotalPer TotalScore D1Per D2Per D3Per D4Per D5Per D1Score D2Score D4Score D4Score D5Score;
    set wide_sorted;
    format TotalPer D1Per D1Per D2Per D3Per D4Per D5Per percent10.1;
    label TotalScore = "Overall Score" TotalPer = "Overall Percentage" D1Score = "Domain 1 Score" D1Per = "Domain 1 Percentage"
run:
/*Sort data by Overall Percentage (TotalPer) */
proc sort data = order_wide_sorted out = percent_wide_sorted;
by descending Totalper;
run:
/*Print a table (percent_wide_sorted) sorted by overall percentage */
title "Section A: Student Scores Sorted Highest to Lowest Overall Score";
proc print data = percent_wide_sorted (drop = percent DomainNum Student_Scores ) noobs label;
run:
/*Create side-by-side boxplots of the five domains using student percentages as the response */
title "Section A: Student Scores Boxplots of Student Percentages for the Five Domains";
proc sgplot data=sorted_Form_AB;
   vbox percent/category=DomainNum;
    xaxis label = "Domain";
    yaxis label = "Percent";
run:
/*Reorder columns, set format percentage, and label columns */
data reorder clean Question;
   retain Form Question Scores;
    set clean_Question;
    format Scores percent10.1;
   label Question = "Question Number" Scores = "Question Percentage";
run:
/*Sort reorder_clean_Question by Form */
proc sort data = reorder_clean_Question out = sorted_clean_Question;
by Form;
run;
/*Print a table (sorted_clean_Question ) sorted by exam form then by question number
title "Section B: Question Analysis Sorted by Exam Form and Question Number";
proc print data = sorted_clean_Question (drop= _type_ _freq_) noobs label;
run;
```

```
/*reorder columns, set percent formats, and label columns*/
data order_clean_Question;
    retain Scores Form Question;
    set clean_Question;
    format Scores percent10.1;
    label Question = "Question Number" Scores = "Question Percentage";
run;

/*Sort order_clean_Question by Scores and then Form */
proc sort data = order_clean_Question out = sorted_easy_Question;
by descending Scores Form;
run;

/*Print a table (sorted_easy_Question) sorted by question percentage (easiest to hardest) */
title "Section B: Question Analysis Sorted by Question Percentage";
proc print data = sorted_easy_Question (drop = _type__freq_) noobs label;
run;

/*End of pdf file*/
ods pdf close;
```

Log: FinalProject.sas

Results: FinalProject.sas

Section A: Student Scores Sorted by Student ID

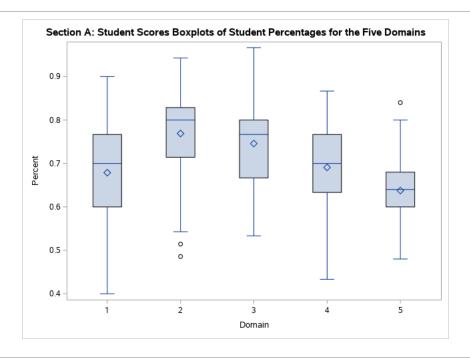
| Student | Form | Overall Score | Overall Percentage | Domain 1 Score | Domain 1 Percentage | Domain 2 Score | Domain 2 Percentage | Domain 3 Score | Domain 3 Percentage | Domain 4 Score | Domain 4 Percentage | Domain 5 Score | Domain 5 Percentage |
|---------|------|------------------|-----------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|
| 1 | Α | 103 | 68.7% | 17 | 56.7% | 24 | 68.6% | 25 | 83.3% | 24 | 80.0% | 13 | 52.0% |
| 2 | В | 121 | 80.7% | 26 | 86.7% | 31 | 88.6% | 25 | 83.3% | 24 | 80.0% | 15 | 60.0% |
| 3 | Α | 101 | 67.3% | 19 | 63.3% | 25 | 71.4% | 23 | 76.7% | 18 | 60.0% | 16 | 64.0% |
| 4 | В | 114 | 76.0% | 22 | 73.3% | 31 | 88.6% | 25 | 83.3% | 21 | 70.0% | 15 | 60.0% |
| 5 | Α | 114 | 76.0% | 22 | 73.3% | 28 | 80.0% | 26 | 86.7% | 23 | 76.7% | 15 | 60.0% |
| 6 | В | 108 | 72.0% | 19 | 63.3% | 29 | 82.9% | 20 | 66.7% | 23 | 76.7% | 17 | 68.0% |
| 7 | Α | 123 | 82.0% | 24 | 80.0% | 31 | 88.6% | 25 | 83.3% | 26 | 86.7% | 17 | 68.0% |
| 8 | В | 94 | 62.7% | 16 | 53.3% | 24 | 68.6% | 19 | 63.3% | 18 | 60.0% | 17 | 68.0% |
| 9 | Α | 102 | 68.0% | 20 | 66.7% | 26 | 74.3% | 20 | 66.7% | 22 | 73.3% | 14 | 56.0% |
| 10 | В | 103 | 68.7% | 25 | 83.3% | 22 | 62.9% | 23 | 76.7% | 20 | 66.7% | 13 | 52.0% |
| 11 | Α | 101 | 67.3% | 20 | 66.7% | 27 | 77.1% | 22 | 73.3% | 19 | 63.3% | 13 | 52.0% |
| 12 | В | 107 | 71.3% | 18 | 60.0% | 30 | 85.7% | 23 | 76.7% | 19 | 63.3% | 17 | 68.0% |
| 13 | Α | 107 | 71.3% | 19 | 63.3% | 22 | 62.9% | 23 | 76.7% | 23 | 76.7% | 20 | 80.0% |
| 14 | В | 105 | 70.0% | 17 | 56.7% | 29 | 82.9% | 23 | 76.7% | 21 | 70.0% | 15 | 60.0% |
| 15 | Α | 110 | 73.3% | 23 | 76.7% | 26 | 74.3% | 23 | 76.7% | 21 | 70.0% | 17 | 68.0% |
| 16 | В | 115 | 76.7% | 23 | 76.7% | 29 | 82.9% | 25 | 83.3% | 20 | 66.7% | 18 | 72.0% |
| 17 | Α | 119 | 79.3% | 24 | 80.0% | 30 | 85.7% | 26 | 86.7% | 23 | 76.7% | 16 | 64.0% |
| 18 | В | 104 | 69.3% | 24 | 80.0% | 29 | 82.9% | 23 | 76.7% | 16 | 53.3% | 12 | 48.0% |
| 19 | Α | 87 | 58.0% | 18 | 60.0% | 19 | 54.3% | 18 | 60.0% | 16 | 53.3% | 16 | 64.0% |
| 20 | В | 118 | 78.7% | 25 | 83.3% | 29 | 82.9% | 23 | 76.7% | 24 | 80.0% | 17 | 68.0% |
| 21 | A | 99 | 66.0% | 19 | 63.3% | 24 | 68.6% | 21 | 70.0% | 21 | 70.0% | 14 | 56.0% |
| 22 | В | 99 | 66.0% | 20 | 66.7% | 27 | 77.1% | 22 | 73.3% | 15 | 50.0% | 15 | 60.0% |
| 23 | A | 115 | 76.7% | 22 | 73.3% | 26 | 74.3% | 28 | 93.3% | 21 | 70.0% | 18 | 72.0% |
| 24 | В | 84 | 56.0% | 15 | 50.0% | 22 | 62.9% | 17 | 56.7% | 18 | 60.0% | 12 | 48.0% |
| 25 | A | 114 | 76.0% | 23 | 76.7% | 29 | 82.9% | 25 | 83.3% | 21 | 70.0% | 16 | 64.0% |
| 26 | В | 113 | 75.3% | 22 | 73.3% | 25 | 71.4% | 23 | 76.7% | 25 | 83.3% | 18 | 72.09 |
| 27 | A | 92 | 61.3% | 13 | 43.3% | 27 | 77.1% | 16 | 53.3% | 22 | 73.3% | 14 | 56.0% |
| 28 | В | 98 | 65.3% | 18 | 60.0% | 30 | 85.7% | 20 | 66.7% | 18 | 60.0% | 12 | 48.0% |
| 29 | A | 102 | 68.0% | 18 | 60.0% | 24 | 68.6% | 22 | 73.3% | 21 | 70.0% | 17 | 68.0% |
| 30 | В | 99 | 66.0% | 18 | 60.0% | 20 | 57.1% | 23 | 76.7% | 22 | 73.3% | 16 | 64.0% |
| 31 | A | 106 | 70.7% | 18 | 60.0% | 28 | 80.0% | 23 | 76.7% | 23 | 76.7% | 14 | 56.0% |
| 32 | В | 78 | 52.0% | 12 | 40.0% | 20 | 57.1% | 16 | 53.3% | 14 | 46.7% | 16 | 64.0% |
| 33 | A | 91 | 60.7% | 17 | 56.7% | 24 | 68.6% | 20 | 66.7% | 16 | 53.3% | 14 | 56.0% |
| 34 | В | 101 | 67.3% | 21 | 70.0% | 27 | 77.1% | 19 | 63.3% | 17 | 56.7% | 17 | 68.0% |
| 35 | A | 115 | 76.7% | 24 | 80.0% | 26 | 74.3% | 26 | 86.7% | 22 | 73.3% | 17 | 68.0% |
| 36 | В | 117 | 78.0% | 25 | 83.3% | 31 | 88.6% | 25 | 83.3% | 22 | 73.3% | 14 | 56.0% |
| 37 | A | 117 | 75.3% | 25 | 70.0% | 27 | 77.1% | 25 | 83.3% | 23 | 76.7% | 17 | 68.0% |
| 38 | В | 92 | 61.3% | 18 | 60.0% | 25 | 71.1% | 23 | 76.7% | 13 | 43.3% | 13 | 52.0% |
| 38 | A | 117 | 78.0% | 25 | 83.3% | 25 | 71.4% | 23 | 96.7% | 21 | 70.0% | 16 | 64.0% |
| 40 | В | | 78.0% 64.0% | | 50.0% | 25 | 74.3% | 29 | 96.7% | 17 | 70.0% | | |
| 41 | | 96 | 64.0% | 15 | 50.0% 46.7% | 25 | | | | | 66.7% | 19 | 76.0% |
| | A | 95 | | 14 | | | 71.4% | 17 | 56.7% | 20 | | 19 | 76.0% |
| 42 | В | 112 | 74.7% | 24 | 80.0% | 29 | 82.9% | 23 | 76.7% | 22 | 73.3% | 14 | 56.0% |
| 43 | A | 118 | 78.7% | 22 | 73.3% | 31 | 88.6% | 23 | 76.7% | 26 | 86.7% | 16 | 64.0% |
| 44 | В | 85 | 56.7% | 17 | 56.7% | 21 | 60.0% | 19 | 63.3% | 15 | 50.0% | 13 | 52.0% |
| 45 | Α | 100 | 66.7% | 19 | 63.3% | 25 | 71.4% | 24 | 80.0% | 19 | 63.3% | 13 | 52.0% |

| Student | Form | Overall Score | Overall Percentage | Domain 1 Score | Domain 1 Percentage | Domain 2 Score | Domain 2 Percentage | Domain 3 Score | Domain 3 Percentage | Domain 4 Score | Domain 4 Percentage | Domain 5 Score | Domain 5 Percentage |
|---------|------|------------------|-----------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|
| 46 | В | 105 | 70.0% | 21 | 70.0% | 27 | 77.1% | 22 | 73.3% | 21 | 70.0% | 14 | 56.0% |
| 47 | Α | 96 | 64.0% | 15 | 50.0% | 24 | 68.6% | 18 | 60.0% | 21 | 70.0% | 18 | 72.0% |
| 48 | В | 121 | 80.7% | 27 | 90.0% | 31 | 88.6% | 24 | 80.0% | 23 | 76.7% | 16 | 64.0% |
| 49 | Α | 114 | 76.0% | 21 | 70.0% | 29 | 82.9% | 24 | 80.0% | 23 | 76.7% | 17 | 68.0% |
| 50 | В | 99 | 66.0% | 19 | 63.3% | 25 | 71.4% | 21 | 70.0% | 20 | 66.7% | 14 | 56.0% |
| 51 | Α | 113 | 75.3% | 20 | 66.7% | 30 | 85.7% | 23 | 76.7% | 22 | 73.3% | 18 | 72.0% |
| 52 | В | 104 | 69.3% | 21 | 70.0% | 28 | 80.0% | 21 | 70.0% | 17 | 56.7% | 17 | 68.0% |
| 53 | Α | 98 | 65.3% | 19 | 63.3% | 20 | 57.1% | 24 | 80.0% | 20 | 66.7% | 15 | 60.0% |
| 54 | В | 126 | 84.0% | 25 | 83.3% | 33 | 94.3% | 26 | 86.7% | 25 | 83.3% | 17 | 68.0% |
| 55 | Α | 123 | 82.0% | 26 | 86.7% | 29 | 82.9% | 25 | 83.3% | 24 | 80.0% | 19 | 76.0% |
| 56 | В | 104 | 69.3% | 22 | 73.3% | 29 | 82.9% | 20 | 66.7% | 21 | 70.0% | 12 | 48.0% |
| 57 | Α | 103 | 68.7% | 17 | 56.7% | 27 | 77.1% | 21 | 70.0% | 19 | 63.3% | 19 | 76.0% |
| 58 | В | 99 | 66.0% | 20 | 66.7% | 24 | 68.6% | 18 | 60.0% | 21 | 70.0% | 16 | 64.0% |
| 59 | Α | 119 | 79.3% | 21 | 70.0% | 29 | 82.9% | 25 | 83.3% | 25 | 83.3% | 19 | 76.0% |
| 60 | В | 116 | 77.3% | 22 | 73.3% | 32 | 91.4% | 22 | 73.3% | 23 | 76.7% | 17 | 68.0% |
| 61 | Α | 106 | 70.7% | 17 | 56.7% | 25 | 71.4% | 26 | 86.7% | 21 | 70.0% | 17 | 68.0% |
| 62 | В | 91 | 60.7% | 16 | 53.3% | 26 | 74.3% | 20 | 66.7% | 14 | 46.7% | 15 | 60.0% |
| 63 | Α | 97 | 64.7% | 19 | 63.3% | 24 | 68.6% | 25 | 83.3% | 17 | 56.7% | 12 | 48.0% |
| 65 | Α | 122 | 81.3% | 23 | 76.7% | 33 | 94.3% | 24 | 80.0% | 24 | 80.0% | 18 | 72.0% |
| 66 | В | 107 | 71.3% | 22 | 73.3% | 28 | 80.0% | 22 | 73.3% | 19 | 63.3% | 16 | 64.0% |
| 67 | Α | 122 | 81.3% | 25 | 83.3% | 29 | 82.9% | 25 | 83.3% | 24 | 80.0% | 19 | 76.0% |
| 68 | В | 108 | 72.0% | 21 | 70.0% | 29 | 82.9% | 22 | 73.3% | 21 | 70.0% | 15 | 60.0% |
| 69 | Α | 119 | 79.3% | 24 | 80.0% | 29 | 82.9% | 24 | 80.0% | 24 | 80.0% | 18 | 72.0% |
| 70 | В | 103 | 68.7% | 16 | 53.3% | 30 | 85.7% | 20 | 66.7% | 22 | 73.3% | 15 | 60.0% |
| 71 | Α | 88 | 58.7% | 17 | 56.7% | 18 | 51.4% | 18 | 60.0% | 19 | 63.3% | 16 | 64.0% |
| 72 | В | 110 | 73.3% | 22 | 73.3% | 31 | 88.6% | 23 | 76.7% | 19 | 63.3% | 15 | 60.0% |
| 73 | Α | 117 | 78.0% | 24 | 80.0% | 28 | 80.0% | 28 | 93.3% | 21 | 70.0% | 16 | 64.0% |
| 74 | В | 108 | 72.0% | 18 | 60.0% | 30 | 85.7% | 21 | 70.0% | 23 | 76.7% | 16 | 64.0% |
| 75 | Α | 119 | 79.3% | 22 | 73.3% | 29 | 82.9% | 26 | 86.7% | 26 | 86.7% | 16 | 64.0% |
| 76 | В | 112 | 74.7% | 24 | 80.0% | 28 | 80.0% | 20 | 66.7% | 21 | 70.0% | 19 | 76.0% |
| 77 | Α | 88 | 58.7% | 13 | 43.3% | 23 | 65.7% | 20 | 66.7% | 15 | 50.0% | 17 | 68.0% |
| 78 | В | 115 | 76.7% | 22 | 73.3% | 29 | 82.9% | 24 | 80.0% | 21 | 70.0% | 19 | 76.0% |
| 79 | Α | 120 | 80.0% | 25 | 83.3% | 31 | 88.6% | 23 | 76.7% | 24 | 80.0% | 17 | 68.0% |
| 80 | В | 106 | 70.7% | 20 | 66.7% | 26 | 74.3% | 22 | 73.3% | 23 | 76.7% | 15 | 60.0% |
| 81 | Α | 122 | 81.3% | 21 | 70.0% | 32 | 91.4% | 26 | 86.7% | 26 | 86.7% | 17 | 68.0% |
| 82 | В | 122 | 81.3% | 23 | 76.7% | 30 | 85.7% | 23 | 76.7% | 25 | 83.3% | 21 | 84.0% |
| 83 | Α | 112 | 74.7% | 20 | 66.7% | 29 | 82.9% | 19 | 63.3% | 25 | 83.3% | 19 | 76.0% |
| 84 | В | 102 | 68.0% | 25 | 83.3% | 26 | 74.3% | 18 | 60.0% | 18 | 60.0% | 15 | 60.0% |
| 85 | Α | 88 | 58.7% | 17 | 56.7% | 25 | 71.4% | 17 | 56.7% | 15 | 50.0% | 14 | 56.0% |
| 86 | В | 106 | 70.7% | 21 | 70.0% | 32 | 91.4% | 21 | 70.0% | 17 | 56.7% | 15 | 60.0% |
| 87 | A | 104 | 69.3% | 22 | 73.3% | 21 | 60.0% | 23 | 76.7% | 22 | 73.3% | 16 | 64.0% |
| 88 | В | 101 | 67.3% | 15 | 50.0% | 24 | 68.6% | 23 | 76.7% | 23 | 76.7% | 16 | 64.0% |
| 89 | A | 106 | 70.7% | 20 | 66.7% | 28 | 80.0% | 22 | 73.3% | 18 | 60.0% | 18 | 72.0% |
| 90 | В | 101 | 67.3% | 17 | 56.7% | 30 | 85.7% | 24 | 80.0% | 15 | 50.0% | 15 | 60.0% |
| 91 | A | 111 | 74.0% | 24 | 80.0% | 27 | 77.1% | 24 | 80.0% | 24 | 80.0% | 12 | 48.0% |
| 92 | В | 117 | 78.0% | 24 | 80.0% | 28 | 80.0% | 26 | 86.7% | 22 | 73.3% | 17 | 68.0% |
| 93 | A | 100 | 66.7% | 20 | 66.7% | 21 | 60.0% | 19 | 63.3% | 24 | 80.0% | 16 | 64.0% |
| 94 | В | 108 | 72.0% | 23 | 76.7% | 32 | 91.4% | 20 | 66.7% | 16 | 53.3% | 17 | 68.0% |
| 95 | A | 96 | 64.0% | 17 | 56.7% | 22 | 62.9% | 21 | 70.0% | 21 | 70.0% | 15 | 60.0% |
| 96 | В | 112 | 74.7% | 23 | 76.7% | 29 | 82.9% | 23 | 76.7% | 21 | 70.0% | 16 | 64.0% |
| 97 | Α | 117 | 78.0% | 20 | 66.7% | 29 | 82.9% | 28 | 93.3% | 24 | 80.0% | 16 | 64.0% |
| 98 | В | 79 | 52.7% | 15 | 50.0% | 17 | 48.6% | 19 | 63.3% | 14 | 46.7% | 14 | 56.0% |
| 99 | Α | 106 | 70.7% | 18 | 60.0% | 26 | 74.3% | 23 | 76.7% | 23 | 76.7% | 16 | 64.0% |
| 100 | В | 110 | 73.3% | 24 | 80.0% | 28 | 80.0% | 20 | 66.7% | 21 | 70.0% | 17 | 68.0% |

Section A: Student Scores Sorted Highest to Lowest Overall Score

| Student | Form | Overall Percentage | Overall Score | Domain 1 Percentage | Domain 2 Percentage | Domain 3 Percentage | Domain 4 Percentage | Domain 5 Percentage | Domain 1 Score | Domain 2 Score | Domain 3 Score | Domain 4 Score | Domain 5 Score |
|---------|------|-----------------------|------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 54 | В | 84.0% | 126 | 83.3% | 94.3% | 86.7% | 83.3% | 68.0% | 25 | 33 | 26 | 25 | 17 |
| 7 | A | 82.0% | 123 | 80.0% | 88.6% | 83.3% | 86.7% | 68.0% | 24 | 31 | 25 | 26 | 17 |
| 55 | A | 82.0% | 123 | 86.7% | 82.9% | 83.3% | 80.0% | 76.0% | 26 | 29 | 25 | 24 | 19 |
| 65 | A | 81.3% | 122 | 76.7% | 94.3% | 80.0% | 80.0% | 72.0% | 23 | 33 | 24 | 24 | 18 |
| 67 | A | 81.3% | 122 | 83.3% | 82.9% | 83.3% | 80.0% | 76.0% | 25 | 29 | 25 | 24 | 19 |
| 81 | A | 81.3% | 122 | 70.0% | 91.4% | 86.7% | 86.7% | 68.0% | 21 | 32 | 26 | 26 | 17 |
| 82 | В | 81.3% | 122 | 76.7% | 85.7% | 76.7% | 83.3% | 84.0% | 23 | 30 | 23 | 25 | 21 |
| 2 | В | 80.7% | 121 | 86.7% | 88.6% | 83.3% | 80.0% | 60.0% | 26 | 31 | 25 | 24 | 15 |
| 48 | В | 80.7% | 121 | 90.0% | 88.6% | 80.0% | 76.7% | 64.0% | 27 | 31 | 24 | 23 | 16 |
| 79 | A | 80.0% | 120 | 83.3% | 88.6% | 76.7% | 80.0% | 68.0% | 25 | 31 | 23 | 24 | 17 |
| 17 | A | 79.3% | 119 | 80.0% | 85.7% | 86.7% | 76.7% | 64.0% | 24 | 30 | 26 | 23 | 16 |
| 59 | A | 79.3% | 119 | 70.0% | 82.9% | 83.3% | 83.3% | 76.0% | 21 | 29 | 25 | 25 | 19 |
| 69 | A | 79.3% | 119 | 80.0% | 82.9% | 80.0% | 80.0% | 72.0% | 24 | 29 | 24 | 24 | 18 |
| 75 | A | 79.3% | 119 | 73.3% | 82.9% | 86.7% | 86.7% | 64.0% | 22 | 29 | 26 | 26 | 16 |
| 20 | В | 78.7% | 118 | 83.3% | 82.9% | 76.7% | 80.0% | 68.0% | 25 | 29 | 23 | 24 | 17 |
| 43 | A | 78.7% | 118 | 73.3% | 88.6% | 76.7% | 86.7% | 64.0% | 22 | 31 | 23 | 26 | 16 |
| 36 | В | 78.0% | 117 | 83.3% | 88.6% | 83.3% | 73.3% | 56.0% | 25 | 31 | 25 | 22 | 14 |
| 39 | А | 78.0% | 117 | 83.3% | 74.3% | 96.7% | 70.0% | 64.0% | 25 | 26 | 29 | 21 | 16 |
| 73 | Α | 78.0% | 117 | 80.0% | 80.0% | 93.3% | 70.0% | 64.0% | 24 | 28 | 28 | 21 | 16 |

| Student | Form | Overall Percentage | Overall Score | Domain 1 Percentage | Domain 2 Percentage | Domain 3 Percentage | Domain 4 Percentage | Domain 5 Percentage | Domain 1 Score | Domain 2 Score | Domain 3 Score | Domain 4 Score | Domain 5 Score |
|----------|--------|-----------------------|------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 92 | В | 78.0% | 117 | 80.0% | 80.0% | 86.7% | 73.3% | 68.0% | 24 | 28 | 26 | 22 | 17 |
| 97 | A | 78.0% | 117 | 66.7% | 82.9% | 93.3% | 80.0% | 64.0% | 20 | 29 | 28 | 24 | 16 |
| 60 | В | 77.3% | 116 | 73.3% | 91.4% | 73.3% | 76.7% | 68.0% | 22 | 32 | 22 | 23 | 17 |
| 16 | В | 76.7% | 115 | 76.7% | 82.9% | 83.3% | 66.7% | 72.0% | 23 | 29 | 25 | 20 | 18 |
| 23 | Α | 76.7% | 115 | 73.3% | 74.3% | 93.3% | 70.0% | 72.0% | 22 | 26 | 28 | 21 | 18 |
| 35 | A | 76.7% | 115 | 80.0% | 74.3% | 86.7% | 73.3% | 68.0% | 24 | 26 | 26 | 22 | 17 |
| 78 | В | 76.7% | 115 | 73.3% | 82.9% | 80.0% | 70.0% | 76.0% | 22 | 29 | 24 | 21 | 19 |
| 5 | A | 76.0% 76.0% | 114 | 73.3% 73.3% | 88.6% 80.0% | 83.3% 86.7% | 70.0% 76.7% | 60.0% | 22 | 31 28 | 25 26 | 21 | 15 15 |
| 25 | A | 76.0% | 114 | 76.7% | 82.9% | 83.3% | 70.0% | 64.0% | 23 | 29 | 25 | 21 | 16 |
| 49 | Α | 76.0% | 114 | 70.0% | 82.9% | 80.0% | 76.7% | 68.0% | 21 | 29 | 24 | 23 | 17 |
| 26 | В | 75.3% | 113 | 73.3% | 71.4% | 76.7% | 83.3% | 72.0% | 22 | 25 | 23 | 25 | 18 |
| 37 | Α | 75.3% | 113 | 70.0% | 77.1% | 83.3% | 76.7% | 68.0% | 21 | 27 | 25 | 23 | 17 |
| 51 | Α | 75.3% | 113 | 66.7% | 85.7% | 76.7% | 73.3% | 72.0% | 20 | 30 | 23 | 22 | 18 |
| 42 | В | 74.7% | 112 | 80.0% | 82.9% | 76.7% | 73.3% | 56.0% | 24 | 29 | 23 | 22 | 14 |
| 76 83 | A | 74.7% 74.7% | 112 | 80.0% 66.7% | 80.0% 82.9% | 66.7% 63.3% | 70.0% 83.3% | 76.0% 76.0% | 24 | 28 29 | 20 19 | 21 25 | 19 19 |
| 96 | В | 74.7% | 112 | 76.7% | 82.9% | 76.7% | 70.0% | 64.0% | 23 | 29 | 23 | 21 | 16 |
| 91 | A | 74.0% | 111 | 80.0% | 77.1% | 80.0% | 80.0% | 48.0% | 24 | 27 | 24 | 24 | 12 |
| 15 | Α | 73.3% | 110 | 76.7% | 74.3% | 76.7% | 70.0% | 68.0% | 23 | 26 | 23 | 21 | 17 |
| 72 | В | 73.3% | 110 | 73.3% | 88.6% | 76.7% | 63.3% | 60.0% | 22 | 31 | 23 | 19 | 15 |
| 100 | В | 73.3% | 110 | 80.0% | 80.0% | 66.7% | 70.0% | 68.0% | 24 | 28 | 20 | 21 | 17 |
| 6 | В | 72.0% | 108 | 63.3% | 82.9% | 66.7% | 76.7% | 68.0% | 19 | 29 | 20 | 23 | 17 |
| 68 | В | 72.0% | 108 | 70.0% | 82.9% | 73.3% | 70.0% | 60.0% | 21 | 29 | 22 | 21 | 15 |
| 74 | В | 72.0% | 108 | 60.0% | 85.7% | 70.0% | 76.7% | 64.0% | 18 | 30 | 21 | 23 | 16 |
| 94 | В | 72.0% 71.3% | 108 | 76.7% 60.0% | 91.4% 85.7% | 66.7% 76.7% | 53.3% 63.3% | 68.0% 68.0% | 23 18 | 32 | 20 | 16 19 | 17 |
| 13 | A | 71.3% | 107 | 63.3% | 62.9% | 76.7% | 76.7% | 80.0% | 19 | 22 | 23 | 23 | 20 |
| 66 | В | 71.3% | 107 | 73.3% | 80.0% | 73.3% | 63.3% | 64.0% | 22 | 28 | 22 | 19 | 16 |
| 31 | Α | 70.7% | 106 | 60.0% | 80.0% | 76.7% | 76.7% | 56.0% | 18 | 28 | 23 | 23 | 14 |
| 61 | Α | 70.7% | 106 | 56.7% | 71.4% | 86.7% | 70.0% | 68.0% | 17 | 25 | 26 | 21 | 17 |
| 80 | В | 70.7% | 106 | 66.7% | 74.3% | 73.3% | 76.7% | 60.0% | 20 | 26 | 22 | 23 | 15 |
| 86 | В | 70.7% | 106 | 70.0% | 91.4% | 70.0% | 56.7% | 60.0% | 21 | 32 | 21 | 17 | 15 |
| 89 | Α | 70.7% | 106 | 66.7% | 80.0% | 73.3% | 60.0% | 72.0% | 20 | 28 | 22 | 18 | 18 |
| 99 | A | 70.7% | 106 | 60.0% | 74.3% | 76.7% | 76.7% | 64.0% | 18 | 26 | 23 | 23 | 16 |
| 14 46 | В | 70.0% | 105 | 56.7% 70.0% | 82.9% 77.1% | 76.7% 73.3% | 70.0% 70.0% | 60.0% 56.0% | 17 | 29 27 | 23 | 21 | 15 14 |
| 18 | В | 69.3% | 105 104 | 80.0% | 82.9% | 76.7% | 53.3% | 48.0% | 24 | 29 | 23 | 16 | 12 |
| 52 | В | 69.3% | 104 | 70.0% | 80.0% | 70.0% | 56.7% | 68.0% | 21 | 28 | 21 | 17 | 17 |
| 56 | В | 69.3% | 104 | 73.3% | 82.9% | 66.7% | 70.0% | 48.0% | 22 | 29 | 20 | 21 | 12 |
| 87 | Α | 69.3% | 104 | 73.3% | 60.0% | 76.7% | 73.3% | 64.0% | 22 | 21 | 23 | 22 | 16 |
| 1 | Α | 68.7% | 103 | 56.7% | 68.6% | 83.3% | 80.0% | 52.0% | 17 | 24 | 25 | 24 | 13 |
| 10 | В | 68.7% | 103 | 83.3% | 62.9% | 76.7% | 66.7% | 52.0% | 25 | 22 | 23 | 20 | 13 |
| 57 | Α | 68.7% | 103 | 56.7% | 77.1% | 70.0% | 63.3% | 76.0% | 17 | 27 | 21 | 19 | 19 |
| 70 | В | 68.7% | 103 | 53.3% | 85.7% | 66.7% | 73.3% | 60.0% | 16 | 30 | 20 | 22 | 15 |
| 9 29 | A | 68.0% | 102 | 66.7% 60.0% | 74.3% | 66.7% 73.3% | 73.3% | 56.0% | 20 | 26 24 | 20 | 22 | 14 |
| 84 | A B | 68.0% 68.0% | 102 102 | 83.3% | 68.6% 74.3% | 60.0% | 70.0% 60.0% | 68.0% | 25 | 26 | 18 | 18 | 17 |
| 3 | A | 67.3% | 101 | 63.3% | 71.4% | 76.7% | 60.0% | 64.0% | 19 | 25 | 23 | 18 | 16 |
| 11 | Α | 67.3% | 101 | 66.7% | 77.1% | 73.3% | 63.3% | 52.0% | 20 | 27 | 22 | 19 | 13 |
| 34 | В | 67.3% | 101 | 70.0% | 77.1% | 63.3% | 56.7% | 68.0% | 21 | 27 | 19 | 17 | 17 |
| 88 | В | 67.3% | 101 | 50.0% | 68.6% | 76.7% | 76.7% | 64.0% | 15 | 24 | 23 | 23 | 16 |
| 90 | В | 67.3% | 101 | 56.7% | 85.7% | 80.0% | 50.0% | 60.0% | 17 | 30 | 24 | 15 | 15 |
| 45 | Α | 66.7% | 100 | 63.3% | 71.4% | 80.0% | 63.3% | 52.0% | 19 | 25 | 24 | 19 | 13 |
| 93 | A | 66.7% | 100 | 66.7% | 60.0% | 63.3% | 80.0% | 64.0% | 20 | 21 | 19 | 24 | 16 |
| 21 | A B | 66.0% 66.0% | 99 | 63.3% 66.7% | 68.6% 77.1% | 70.0% 73.3% | 70.0% 50.0% | 56.0% 60.0% | 19 | 24 27 | 21 | 21 15 | 14 15 |
| 30 | В | 66.0% | 99 | 60.0% | 77.1% 57.1% | 73.3% | 73.3% | 60.0% | 18 | 27 | 22 | 15 | 15 |
| 50 | В | 66.0% | 99 | 63.3% | 71.4% | 70.7% | 66.7% | 56.0% | 19 | 25 | 23 | 20 | 14 |
| 58 | В | 66.0% | 99 | 66.7% | 68.6% | 60.0% | 70.0% | 64.0% | 20 | 24 | 18 | 21 | 16 |
| 28 | В | 65.3% | 98 | 60.0% | 85.7% | 66.7% | 60.0% | 48.0% | 18 | 30 | 20 | 18 | 12 |
| 53 | Α | 65.3% | 98 | 63.3% | 57.1% | 80.0% | 66.7% | 60.0% | 19 | 20 | 24 | 20 | 15 |
| 63 | Α | 64.7% | 97 | 63.3% | 68.6% | 83.3% | 56.7% | 48.0% | 19 | 24 | 25 | 17 | 12 |
| 40 | В | 64.0% | 96 | 50.0% | 71.4% | 66.7% | 56.7% | 76.0% | 15 | 25 | 20 | 17 | 19 |
| 47 | A | 64.0% | 96 | 50.0% | 68.6% | 60.0% | 70.0% | 72.0% | 15 | 24 | 18 | 21 | 18 |
| 95 | A | 64.0% 63.3% | 96 | 56.7% 46.7% | 62.9% 71.4% | 70.0% 56.7% | 70.0% 66.7% | 60.0% 76.0% | 17 | 22 25 | 21 17 | 21 | 15 19 |
| 8 | В | 63.3% | 95 94 | 53.3% | 68.6% | 63.3% | 60.0% | 76.0% 68.0% | 14 | 25 | 17 | 18 | 19 |
| 27 | A | 61.3% | 94 | 43.3% | 77.1% | 53.3% | 73.3% | 56.0% | 13 | 27 | 16 | 22 | 14 |
| 38 | В | 61.3% | 92 | 60.0% | 71.4% | 76.7% | 43.3% | 52.0% | 18 | 25 | 23 | 13 | 13 |
| 33 | A | 60.7% | 91 | 56.7% | 68.6% | 66.7% | 53.3% | 56.0% | 17 | 24 | 20 | 16 | 14 |
| 62 | В | 60.7% | 91 | 53.3% | 74.3% | 66.7% | 46.7% | 60.0% | 16 | 26 | 20 | 14 | 15 |
| 71 | Α | 58.7% | 88 | 56.7% | 51.4% | 60.0% | 63.3% | 64.0% | 17 | 18 | 18 | 19 | 16 |
| 77 | Α | 58.7% | 88 | 43.3% | 65.7% | 66.7% | 50.0% | 68.0% | 13 | 23 | 20 | 15 | 17 |
| 85 | Α | 58.7% | 88 | 56.7% | 71.4% | 56.7% | 50.0% | 56.0% | 17 | 25 | 17 | 15 | 14 |
| 19 | A | 58.0% | 87 | 60.0% | 54.3% | 60.0% | 53.3% | 64.0% | 18 | 19 | 18 | 16 | 16 |
| 44 | В | 56.7% | 85 | 56.7% | 60.0% | 63.3% | 50.0% | 52.0% | 17 | 21 | 19 | 15 | 13 |
| 98 | В | 56.0% 52.7% | 84 79 | 50.0% 50.0% | 62.9% 48.6% | 56.7% 63.3% | 60.0% 46.7% | 48.0% 56.0% | 15 15 | 22 17 | 17 19 | 18 | 12 |
| 32 | В | 52.7% | 79 | 40.0% | 57.1% | 53.3% | 46.7% | 64.0% | 12 | 20 | 16 | 14 | 16 |
| | | 02.070 | , , | 70.070 | 01.170 | 00.070 | 70.770 | 04.070 | 12 | 20 | 10 | 1-7 | - 10 |



Section B: Question Analysis Sorted by Exam Form and Question Number

| Form | Question Number | Question Percentage |
|------|-----------------|---------------------|
| A | 1 | 16.0% |
| Α | 2 | 76.0% |
| A | 3 | 42.0% |
| A | 4 | 94.0% |
| A | 5 | 84.0% |
| A | 6 | 70.0% |
| A | 7 | 78.0% |
| A | 8 | 88.0% |
| A | 9 | 100.0% |
| A | 10 | 50.0% |
| A | 11 | 30.0% |
| A | 12 | 66.0% |
| Α | 13 | 76.0% |
| Α | 14 | 66.0% |
| | | |
| A | 15 | 66.0% |
| A | 16 | 46.0% |
| A | 17 | 82.0% |
| Α . | 18 | 52.0% |
| A | 19 | 28.0% |
| A | 20 | 88.0% |
| A | 21 | 74.0% |
| A | 22 | 98.0% |
| A | 23 | 32.0% |
| A | 24 | 96.0% |
| A | 25 | 36.0% |
| A | 26 | 78.0% |
| A | 27 | 76.0% |
| A | 28 | 56.0% |
| A | 29 | 80.0% |
| A | 30 | 28.0% |
| Α | 31 | 94.0% |
| A | 32 | 94.0% |
| Α | 33 | 54.0% |
| Α | 34 | 54.0% |
| A | 35 | 52.0% |
| A | 36 | 42.0% |
| A | 37 | 86.0% |
| A | 38 | 98.0% |
| A | 39 | 100.0% |
| A | 40 | 90.0% |
| A | 41 | 90.0% |
| A | 42 | 52.0% |
| A | 43 | 78.0% |
| A | 44 | 38.0% |
| A | 45 | 94.0% |
| Α | 46 | 90.0% |
| A | 47 | 84.0% |
| ^ | 47 | 04.0% |

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|------|-----------------|---------------------|
| Form | Question Number | Question Percentage |
| A | 48 | 72.0% |
| | | |
| Α | 49 | 84.0% |
| Α | 50 | 68.0% |
| A | 51 | 94.0% |
| A | 52 | 76.0% |
| | | |
| Α | 53 | 80.0% |
| Α | 54 | 82.0% |
| A | 55 | 34.0% |
| A | 56 | 54.0% |
| | | |
| Α | 57 | 94.0% |
| Α | 58 | 82.0% |
| Α | 59 | 96.0% |
| A | 60 | 98.0% |
| | | |
| Α | 61 | 98.0% |
| Α | 62 | 86.0% |
| Α | 63 | 34.0% |
| A | 64 | 98.0% |
| | | |
| Α | 65 | 96.0% |
| Α | 66 | 92.0% |
| Α | 67 | 96.0% |
| A | 68 | 88.0% |
| | | |
| Α | 69 | 38.0% |
| Α | 70 | 86.0% |
| Α | 71 | 98.0% |
| A | 72 | 92.0% |
| | | |
| Α | 73 | 68.0% |
| Α | 74 | 68.0% |
| A | 75 | 68.0% |
| A | 76 | 86.0% |
| | | |
| A | 77 | 64.0% |
| Α | 78 | 60.0% |
| A | 79 | 96.0% |
| A | 80 | 72.0% |
| | | |
| Α | 81 | 98.0% |
| Α | 82 | 30.0% |
| A | 83 | 90.0% |
| A | 84 | 52.0% |
| | | |
| A | 85 | 94.0% |
| Α | 86 | 90.0% |
| A | 87 | 90.0% |
| | | |
| A | 88 | 80.0% |
| Α | 89 | 96.0% |
| Α | 90 | 12.0% |
| A | 91 | 56.0% |
| A | | |
| | 92 | 96.0% |
| A | 93 | 84.0% |
| Α | 94 | 16.0% |
| A | 95 | 98.0% |
| | 06 | |
| A | 96 | 90.0% |
| Α | 97 | 78.0% |
| Α | 98 | 36.0% |
| Α | 99 | 8.0% |
| A | 100 | 54.0% |
| | | |
| A | 101 | 100.0% |
| Α | 102 | 100.0% |
| Α | 103 | 96.0% |
| A | 104 | 58.0% |
| | | |
| A | 105 | 60.0% |
| Α | 106 | 40.0% |
| Α | 107 | 86.0% |
| A | 108 | 96.0% |
| | | |
| A | 109 | 88.0% |
| Α | 110 | 52.0% |
| Α | 111 | 60.0% |
| A | 112 | 76.0% |
| | | |
| A | 113 | 52.0% |
| Α | 114 | 56.0% |
| Α | 115 | 88.0% |
| A | 116 | 40.0% |
| | | |
| A | 117 | 54.0% |
| Α | 118 | 94.0% |
| Α | 119 | 68.0% |
| A | 120 | 24.0% |
| | | |
| A | 121 | 70.0% |
| Α | 122 | 96.0% |
| A | 123 | 66.0% |
| A | 124 | 96.0% |
| | | |
| Α | 125 | 14.0% |
| Α | 126 | 18.0% |
| A | 127 | 20.0% |
| | .=/ | |

| | i rogram o | arminary r mar |
|------|-----------------|---------------------|
| Form | Question Number | Question Percentage |
| A | 128 | 58.0% |
| A | 129 | 100.0% |
| A | 130 | 98.0% |
| A | | |
| | 131 | 94.0% |
| A | 132 | 92.0% |
| Α | 133 | 90.0% |
| Α | 134 | 68.0% |
| Α | 135 | 98.0% |
| Α | 136 | 84.0% |
| A | 137 | 88.0% |
| A | 138 | 60.0% |
| | | |
| Α . | 139 | 8.0% |
| Α | 140 | 66.0% |
| A | 141 | 74.0% |
| Α | 142 | 94.0% |
| Α | 143 | 92.0% |
| A | 144 | 76.0% |
| A | 145 | 96.0% |
| A | 146 | 78.0% |
| | | |
| A | 147 | 100.0% |
| Α | 148 | 6.0% |
| Α | 149 | 76.0% |
| Α | 150 | 88.0% |
| В | 1 | 6.1% |
| В | 2 | 36.7% |
| | | |
| B | 3 | 83.7% |
| В | 4 | 100.0% |
| В | 5 | 51.0% |
| В | 6 | 73.5% |
| В | 7 | 36.7% |
| | 8 | |
| B | | 67.3% |
| В | 9 | 63.3% |
| В | 10 | 61.2% |
| В | 11 | 91.8% |
| В | 12 | 20.4% |
| В | 13 | 89.8% |
| | 14 | |
| B | | 100.0% |
| В | 15 | 98.0% |
| В | 16 | 71.4% |
| В | 17 | 83.7% |
| В | 18 | 93.9% |
| В | 19 | 75.5% |
| В | 20 | |
| | | 100.0% |
| В | 21 | 77.6% |
| В | 22 | 85.7% |
| В | 23 | 71.4% |
| В | 24 | 75.5% |
| В | 25 | 93.9% |
| В | 26 | 100.0% |
| | | |
| В | 27 | 59.2% |
| В | 28 | 59.2% |
| В | 29 | 75.5% |
| В | 30 | 57.1% |
| В | 31 | 95.9% |
| В | 32 | 93.9% |
| | | |
| В | 33 | 93.9% |
| В | 34 | 98.0% |
| В | 35 | 63.3% |
| В | 36 | 91.8% |
| В | 37 | 87.8% |
| В | 38 | 38.8% |
| В | 39 | 69.4% |
| | | |
| В | 40 | 95.9% |
| В | 41 | 98.0% |
| В | 42 | 93.9% |
| В | 43 | 26.5% |
| В | 44 | 61.2% |
| В | 45 | 98.0% |
| | | |
| В | 46 | 87.8% |
| В | 47 | 55.1% |
| В | 48 | 89.8% |
| В | 49 | 69.4% |
| В | 50 | 16.3% |
| | | |
| B | 51 | 67.3% |
| В | 52 | 14.3% |
| В | 53 | 63.3% |
| В | 54 | 75.5% |
| В | 55 | 65.3% |
| В | 56 | 91.8% |
| | | 32.7% |
| В | 57 | 32.1% |

| | i rogram o | anniary i mai |
|------|-----------------|---------------------|
| Form | Question Number | Question Percentage |
| В | 58 | 100.0% |
| В | 59 | 79.6% |
| | | |
| В | 60 | 55.1% |
| В | 61 | 95.9% |
| В | 62 | 61.2% |
| В | 63 | 73.5% |
| В | 64 | 83.7% |
| В | 65 | 95.9% |
| В | 66 | 93.9% |
| | | |
| В | 67 | 95.9% |
| В | 68 | 81.6% |
| В | 69 | 24.5% |
| В | 70 | 14.3% |
| В | 71 | 89.8% |
| В | 72 | 91.8% |
| В | 73 | 59.2% |
| В | 74 | 67.3% |
| | | |
| B | 75 | 91.8% |
| В | 76 | 59.2% |
| В | 77 | 24.5% |
| В | 78 | 63.3% |
| В | 79 | 81.6% |
| В | 80 | 75.5% |
| В | 81 | 63.3% |
| | | |
| В | 82 | 30.6% |
| В | 83 | 4.1% |
| В | 84 | 55.1% |
| В | 85 | 14.3% |
| В | 86 | 32.7% |
| В | 87 | 40.8% |
| | | |
| В | 88 | 91.8% |
| В | 89 | 77.6% |
| В | 90 | 14.3% |
| В | 91 | 73.5% |
| В | 92 | 95.9% |
| В | 93 | 10.2% |
| | | |
| В | 94 | 91.8% |
| В | 95 | 30.6% |
| В | 96 | 98.0% |
| В | 97 | 53.1% |
| В | 98 | 100.0% |
| В | 99 | 55.1% |
| | | |
| В | 100 | 91.8% |
| В | 101 | 75.5% |
| В | 102 | 75.5% |
| В | 103 | 91.8% |
| В | 104 | 81.6% |
| В | 105 | 83.7% |
| | | |
| B | 106 | 79.6% |
| В | 107 | 59.2% |
| В | 108 | 79.6% |
| В | 109 | 91.8% |
| В | 110 | 83.7% |
| В | 111 | 89.8% |
| | | |
| В | 112 | 100.0% |
| B | 113 | 87.8% |
| В | 114 | 61.2% |
| В | 115 | 14.3% |
| В | 116 | 91.8% |
| В | 117 | 63.3% |
| В | 118 | 91.8% |
| | | |
| В | 119 | 26.5% |
| В | 120 | 51.0% |
| В | 121 | 91.8% |
| В | 122 | 91.8% |
| В | 123 | 100.0% |
| В | 124 | 81.6% |
| В | 125 | 8.2% |
| | | |
| В | 126 | 89.8% |
| В | 127 | 65.3% |
| В | 128 | 34.7% |
| В | 129 | 95.9% |
| В | 130 | 75.5% |
| | | |
| B | 131 | 40.8% |
| В | 132 | 91.8% |
| В | 133 | 59.2% |
| В | 134 | 73.5% |
| В | 135 | 93.9% |
| В | 136 | 89.8% |
| | | |
| В | 137 | 16.3% |

| Form | Question Number | Question Percentage |
|------|-----------------|---------------------|
| В | 138 | 79.6% |
| В | 139 | 98.0% |
| В | 140 | 4.1% |
| В | 141 | 91.8% |
| В | 142 | 95.9% |
| В | 143 | 42.9% |
| В | 144 | 93.9% |
| В | 145 | 53.1% |
| В | 146 | 28.6% |
| В | 147 | 98.0% |
| В | 148 | 85.7% |
| В | 149 | 91.8% |
| В | 150 | 100.0% |

Section B: Question Analysis Sorted by Question Percentage

| Question Analysis | Sorte | d by Question I |
|---------------------|--------|-----------------|
| Question Percentage | Form | Question Number |
| 100.0% | Α | 9 |
| 100.0% | Α | 39 |
| 100.0% | A | 101 |
| 100.0% | A | 102 |
| 100.0% | A | 129 |
| 100.0% | A | 147 |
| 100.0% | В | 14 |
| 100.0% | В | 20 |
| 100.0% | В | 26 |
| 100.0% | В | 58 |
| 100.0% | В | 98 |
| 100.0% | В | 112 |
| 100.0% | В | 123 |
| 100.0% | В | 150 |
| 98.0% | Α | 22 |
| 98.0% | Α | 38 |
| 98.0% | Α | 60 |
| 98.0% | Α | 61 |
| 98.0% | Α | 64 |
| 98.0% | Α | 71 |
| 98.0% | Α | 81 |
| 98.0% | Α | 95 |
| 98.0% | Α | 130 |
| 98.0% | Α | 135 |
| 98.0% | В | 15 |
| 98.0% | В | 34 |
| 98.0% | В | 41 |
| 98.0% | В | 45 |
| 98.0% | В | 96 |
| 98.0% | В | 139 |
| 98.0% | В | 147 |
| 96.0% | Α | 24 |
| 96.0% | Α | 59 |
| 96.0% | Α | 65 |
| 96.0% | Α | 67 |
| 96.0% | A | 79 |
| 96.0% | A | 89 |
| 96.0% | A | 92 |
| 96.0% | A | 103 |
| 96.0% | A | 108 |
| 96.0% 96.0% | A A | 122 |
| 96.0% | A | 145 |
| 95.9% | В | 31 |
| 95.9% | В | 40 |
| 95.9% | В | 61 |
| 95.9% | В | 65 |
| 95.9% | В | 67 |
| 95.9% | В | 92 |
| 95.9% | В | 129 |
| 95.9% | В | 142 |
| 94.0% | Α | 4 |
| 94.0% | Α | 31 |
| 94.0% | Α | 32 |
| 94.0% | Α | 45 |
| 94.0% | Α | 51 |
| 94.0% | Α | 57 |
| 94.0% | Α | 85 |
| 94.0% | Α | 118 |
| 94.0% | Α | 131 |
| 94.0% | Α | 142 |
| | | |

| riogian | ı Odıı | illiary i illan |
|---------------------|--------|-----------------|
| Question Percentage | Form | Question Number |
| 93.9% | В | 18 |
| | _ | |
| 93.9% | В | 25 |
| 93.9% | В | 32 |
| 93.9% | В | 33 |
| 93.9% | В | 42 |
| 93.9% | В | 66 |
| 93.9% | В | 135 |
| | _ | |
| 93.9% | В | 144 |
| 92.0% | Α | 66 |
| 92.0% | Α | 72 |
| 92.0% | Α | 132 |
| 92.0% | Α | 143 |
| 91.8% | В | 11 |
| 91.8% | В | 36 |
| | _ | |
| 91.8% | В | 56 |
| 91.8% | В | 72 |
| 91.8% | В | 75 |
| 91.8% | В | 88 |
| 91.8% | В | 94 |
| 91.8% | В | 100 |
| 91.8% | В | 103 |
| 91.8% | В | 109 |
| | | |
| 91.8% | В | 116 |
| 91.8% | В | 118 |
| 91.8% | В | 121 |
| 91.8% | В | 122 |
| 91.8% | В | 132 |
| 91.8% | В | 141 |
| 91.8% | В | 149 |
| 90.0% | A | 40 |
| | _ | |
| 90.0% | Α | 41 |
| 90.0% | Α | 46 |
| 90.0% | Α | 83 |
| 90.0% | Α | 86 |
| 90.0% | Α | 87 |
| 90.0% | Α | 96 |
| 90.0% | Α | 133 |
| 89.8% | В | 13 |
| 89.8% | В | 48 |
| 89.8% | В | 71 |
| 89.8% | В | 111 |
| 89.8% | В | 126 |
| 89.8% | В | 136 |
| 88.0% | A | 8 |
| 88.0% | A | 20 |
| | A | |
| 88.0% | _ | 68 |
| 88.0% | Α | 109 |
| 88.0% | Α | 115 |
| 88.0% | Α | 137 |
| 88.0% | Α | 150 |
| 87.8% | В | 37 |
| 87.8% | В | 46 |
| 87.8% | В | 113 |
| 86.0% | A | 37 |
| | _ | |
| 86.0% | Α | 62 |
| 86.0% | Α | 70 |
| 86.0% | Α | 76 |
| 86.0% | Α | 107 |
| 85.7% | В | 22 |
| 85.7% | В | 148 |
| 84.0% | A | 5 |
| 84.0% | Α | 47 |
| 84.0% | Α | 49 |
| 84.0% | Α | 93 |
| 84.0% | Α | 136 |
| 83.7% | В | 3 |
| 83.7% | В | 17 |
| 83.7% | В | 64 |
| 83.7% | В | 105 |
| | | |
| 83.7% | В | 110 |
| 82.0% | Α . | 17 |
| 82.0% | Α | 54 |
| 82.0% | Α | 58 |
| 81.6% | В | 68 |
| 81.6% | В | 79 |
| 81.6% | В | 104 |
| 81.6% | В | 124 |
| 80.0% | Α | 29 |
| 80.0% | Α | 53 |
| 80.0% | Α | 88 |
| | | |

| | | , |
|---------------------|------|-----------------|
| Question Percentage | Form | Question Number |
| 79.6% | В | 59 |
| 79.6% | В | 106 |
| 79.6% | В | 108 |
| 79.6% | В | 138 |
| 78.0% | Α | 7 |
| 78.0% | Α | 26 |
| 78.0% | Α | 43 |
| 78.0% | Α | 97 |
| 78.0% | Α | 146 |
| 77.6% | В | 21 |
| 77.6% | В | 89 |
| 76.0% | Α | 2 |
| 76.0% | Α | 13 |
| 76.0% | Α | 27 |
| 76.0% | Α | 52 |
| 76.0% | Α | 112 |
| 76.0% | Α | 144 |
| 76.0% | Α | 149 |
| 75.5% | В | 19 |
| 75.5% | В | 24 |
| 75.5% | В | 29 |
| 75.5% | В | 54 |
| 75.5% | В | 80 |
| 75.5% | В | 101 |
| 75.5% | В | 102 |
| 75.5% | В | 130 |
| 74.0% | A | 21 |
| 74.0% | A | 141 |
| | В | 6 |
| 73.5% | _ | 63 |
| 73.5% | В | - |
| 73.5% | В | 91 |
| 73.5% | В | 134 |
| 72.0% | Α | 48 |
| 72.0% | Α | 80 |
| 71.4% | В | 16 |
| 71.4% | В | 23 |
| 70.0% | Α | 6 |
| 70.0% | Α | 121 |
| 69.4% | В | 39 |
| 69.4% | В | 49 |
| 68.0% | Α | 50 |
| 68.0% | Α | 73 |
| 68.0% | Α | 74 |
| 68.0% | Α | 75 |
| 68.0% | Α | 119 |
| 68.0% | Α | 134 |
| 67.3% | В | 8 |
| 67.3% | В | 51 |
| 67.3% | В | 74 |
| 66.0% | Α | 12 |
| 66.0% | Α | 14 |
| 66.0% | Α | 15 |
| 66.0% | Α | 123 |
| 66.0% | Α | 140 |
| 65.3% | В | 55 |
| 65.3% | В | 127 |
| 64.0% | Α | 77 |
| 63.3% | В | 9 |
| 63.3% | В | 35 |
| 63.3% | В | 53 |
| 63.3% | В | 78 |
| 63.3% | В | 81 |
| 63.3% | В | 117 |
| 61.2% | В | 10 |
| 61.2% | В | 44 |
| 61.2% | В | 62 |
| 61.2% | В | 114 |
| 60.0% | Α | 78 |
| 60.0% | Α | 105 |
| 60.0% | Α | 111 |
| 60.0% | Α | 138 |
| 59.2% | В | 27 |
| 59.2% | В | 28 |
| 59.2% | В | 73 |
| 59.2% | В | 76 |
| 59.2% | В | 107 |
| 59.2% | В | 133 |
| 58.0% | Α | 104 |
| 58.0% | Α | 128 |
| 57.1% | В | 30 |
| | | |

| Flogran | ı Suli | illiary - Filia |
|---------------------|--------|-----------------|
| Question Percentage | Form | Question Numbe |
| 56.0% | Α | 28 |
| 56.0% | Α | 9. |
| 56.0% | Α . | 114 |
| 55.1% 55.1% | В | 47 |
| 55.1% | В | 84 |
| 55.1% | В | 99 |
| 54.0% | A | 33 |
| 54.0% | A | 34 |
| 54.0% | Α | 56 |
| 54.0% | Α | 100 |
| 54.0% | Α | 117 |
| 53.1% | В | 97 |
| 53.1% | В | 145 |
| 52.0% | Α | 18 |
| 52.0% | A | 35 |
| 52.0% | A | 42 |
| 52.0% 52.0% | A | 84 |
| 52.0% | A | 113 |
| 51.0% | В | |
| 51.0% | В | 120 |
| 50.0% | Α | 10 |
| 46.0% | Α | 16 |
| 42.9% | В | 143 |
| 42.0% | Α | : |
| 42.0% | Α | 36 |
| 40.8% | В | 87 |
| 40.8% | В | 13 |
| 40.0% | Α . | 106 |
| 40.0% | A | 116 |
| 38.8% | B A | 38 |
| 38.0% | A | 69 |
| 36.7% | В | 2 |
| 36.7% | В | |
| 36.0% | Α | 25 |
| 36.0% | Α | 98 |
| 34.7% | В | 128 |
| 34.0% | Α | 55 |
| 34.0% | Α | 60 |
| 32.7% | В | 57 |
| 32.7% | В | 86 |
| 32.0% | Α . | 23 |
| 30.6% | В | 82 |
| 30.6% | B A | 95 |
| 30.0% | A | 82 |
| 28.6% | В | 146 |
| 28.0% | Α | 19 |
| 28.0% | Α | 30 |
| 26.5% | В | 43 |
| 26.5% | В | 119 |
| 24.5% | В | 69 |
| 24.5% | В | 77 |
| 24.0% | Α . | 120 |
| 20.4% | В | 12 |
| 20.0% | A | 127 |
| 16.3% | В | 50 |
| 16.3% | В | 137 |
| 16.0% | A | |
| 16.0% | Α | 94 |
| 14.3% | В | 52 |
| 14.3% | В | 70 |
| 14.3% | В | 85 |
| 14.3% | В | 90 |
| 14.3% | В | 115 |
| 14.0% | A | 125 |
| 12.0% | A | 90 |
| 10.2% | В | 93 |
| 8.2% | B A | 125 |
| 8.0% | A | 139 |
| 6.1% | В | 133 |
| 6.0% | A | 148 |
| 4.1% | В | 83 |
| 4.1% | В | 140 |
| | | |