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Republic of the Philippines  
Department of Education  
REGION III  
SCHOOLS DIVISION OF BULACAN

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DIVISION ADVISORY  
No. 010 s. 2020

TO: Division Chiefs  
Secondary School Heads

FROM: The Schools Division Superintendent

SUBJECT: Conduct of Estadistika 2020 of UPLB Statistical Society

DATE: February 5, 2020

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1. Attached is a letter of UPLB Statistical Society inviting bonafide Grade 7 to 12 students in public schools to participate in Estadistika 2020.
2. For details, refer to the attached letter of John Jerwin L. Evardone, Steering Committee Head (0905-840-6978)

  
GERMELINA H. PASCUAL, CESO V  
Schools Division Superintendent



Provincial Capitol Compound, Brgy. Guinhawa, City of Malolos, Bulacan  
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# ESTADISTIKA 2020

A LUZONWIDE INVITATIONAL STATISTICS QUIZ, ESSAY WRITING, POSTER MAKING AND PHOTO CONTEST



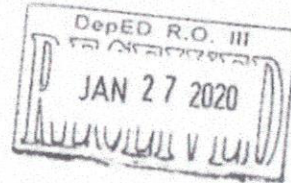
UPLB STATISTICAL SOCIETY



3rd Floor, Physical Sciences Building,  
University of the Philippines, Los Baños



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SENIOR ADVISER

November 17, 2019

**DR. NICOLAS T. CAPULONG**

Regional Director

Department of Education, Region III

Maimpis, City of San Fernando, Pampanga

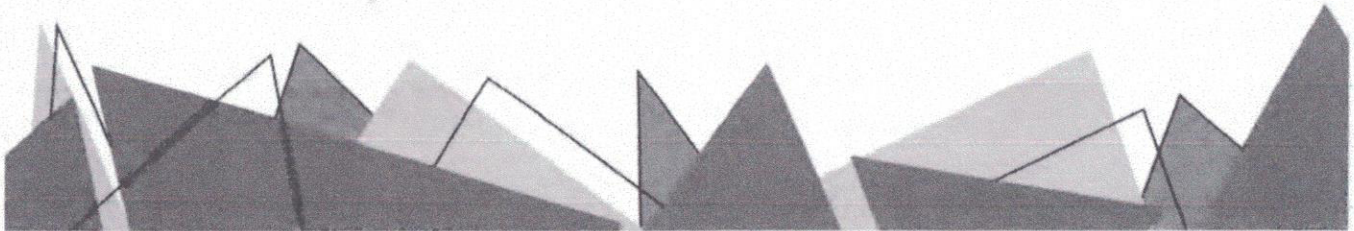
Dear **Dr. Capulong**:

Greetings!

The UPLB Statistical Society (UPLB STATS) is a duly recognized academic organization in the University of the Philippines Los Baños. Since 1980, the organization has devoted itself to its goals of advancing and promoting proper application of statistics in all fields of learning endeavors. In recognition of its outstanding efforts and exemplary dedication to the successful conduct of various statistical advocacy activities for the youth, UPLB STATS was awarded as the **Best Youth Group Advocate for Statistics** during the 27<sup>th</sup> and 28<sup>th</sup> National Statistics Month.

In light of this, one of the organization's annual activities is **ESTADISTIKA**- an invitational statistics quiz, poster making, essay writing, and photo contest for high school students. **ESTADISTIKA** aims to instill the significance of statistics among junior and senior high school students, to introduce the proper application of statistics in various disciplines, to stimulate interest in statistics, and to promote intellectual growth among the youth.

On its 14<sup>th</sup> year, high schools from Luzon are invited to participate in **ESTADISTIKA**. With the theme, "*Planting the Country's Future: Addressing Challenges in Agriculture through Quality Statistics*", **ESTADISTIKA 2020** will be held in the University of the Philippines Los Baños on **7 March 2020 (Saturday)**.





# ESTADISTIKA 2020

A LUZONWIDE INVITATIONAL STATISTICS QUIZ, ESSAY WRITING, POSTER MAKING AND PHOTO CONTEST



UPLB STATISTICAL SOCIETY



3rd Floor, Physical Sciences Building,  
University of the Philippines, Los Baños



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estadistikastats@gmail.com

In this regard, we are humbly requesting for the endorsement of **ESTADISTIKA 2019** to the academic institutions in Region III. Attached herewith is a copy of the mechanics of the Statistics Quiz, Essay Writing, Poster Making and Photo contests. Should you have further inquiries, please do not hesitate to reach us through the contact information provided below or email us through [estadistikastats@gmail.com](mailto:estadistikastats@gmail.com).

*John Jerwin L. Evardone 0905-840-6978*

*Denise Julienne V. Guevarra 0995-938-3734*

Your support to the success of this event is greatly appreciated. Thank you very much and we hope to get a favourable response from you soon.

Respectfully yours,

**John Jerwin L. Evardone**

Steering Committee Head

Noted by:

**Mr. John Lorenzo A. Yambot**

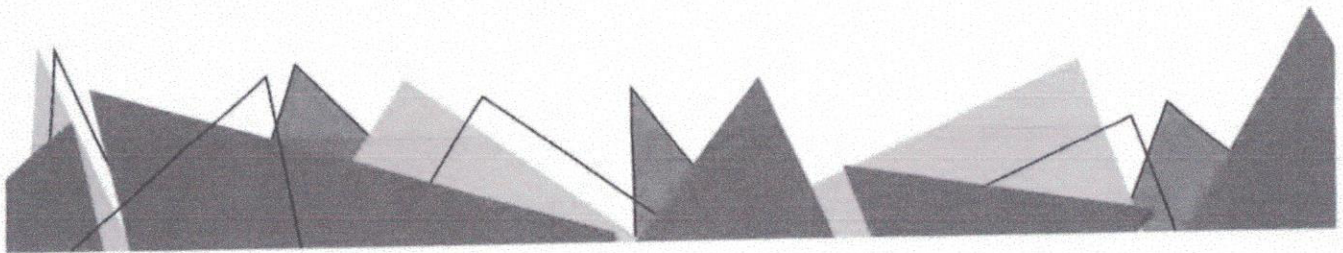
Junior Adviser

**Prof. Marie Joy F. Lopez-Relente**

Junior Adviser

**Dr. Nancy A. Tandang**

Senior Adviser





## UPLB STATISTICAL SOCIETY

plskbss



# ESTADISTIKA 2020

## An Invitational Statistics Quiz, Essay Writing, Poster Making and Photo Contest

ESTADISTIKA is an Invitational Statistics Quiz, Essay Writing, Poster Making and Photo Contest for highschool students spearheaded by the UPLB Statistical Society. It primarily aims to instill the value of Statistics among highschool students and to promote excellence in Statistics among the youth. It also represents an avenue for schools to engage in friendly competition while showing competency in retaining and applying knowledge and skills

**22 February, 2020**  
**SATURDAY**

### CONFIRMATION OF PARTICIPATION

- To confirm the school's participation in ESTADISTIKA 2020, you can either access this link <https://tinyurl.com/extra2020> or accomplish the entry forms attached to this letter. The coach must accomplish the entry forms, and have it signed by the school principal or administrator.
- Entry forms must be submitted via personal delivery, courier service, postal mail, electronic mail or hand-delivery through any certified UPLB Statistical Society member.
- UPLB Statistical Society will confirm the recognition of entry forms via telephone call, electronic mail, or text message.

### QUIZ CONTEST

#### QUALIFICATIONS AND REQUIREMENTS

- All bonafide Grade 7 to 12 students enrolled during the current term may join this contest. Upon registration, student participants are required to present their student ID or any proof of enrollment for the current term.
- Each participating school can send at most two (2) teams and all participating teams shall have three (3) members each. A team may be composed of members that are of the same grade level or different grade level.
- Each participating team is required to pay a non-refundable registration fee amounting to 1000 pesos. The registration fee is inclusive of an event kit for the student participants.

#### COVERAGE

- All questions that will be asked during ESTADISTIKA 2020 will cover topics in Elementary Statistics, its applications and statistics-related trivia questions based on the theme.
- The topics under Elementary Statistics are the following:
- Basic Concepts in Statistics
  - Methods of Collecting Data
  - Methods of Presenting Data
  - Numerical Summary Measures
  - Probability and Probability Distributions
  - Random Variables
  - Sampling and Sampling Techniques

#### QUIZ CONTEST PROPER

- The ELIMINATION ROUND shall be held off-stage and shall take in the form of a written exam.
- All questions for this round shall be of multiple-choice type. The exam shall last for exactly one (1) hour.
- Participating students are requested to bring their own scientific calculator. **Programmable calculators are not allowed.** Only calculators found in the list provided will be allowed to be used by the contestants.

- Answer sheets will be provided. Participants are not allowed to bring scratch papers. However, the exam questionnaires can be used as scratch paper, and extra sheets will be provided if needed.
- Contestants who arrived late may still take the exam, but no time extension will be given.

#### Manner of Scoring and Correction for the Elimination Round

- Each question item shall merit two (2) points.
- Each contestant shall have an individual score, and each team shall have the overall team score by adding the scores of the members.
- The top fifteen (15) teams in the ELIMINATION ROUND shall qualify for the EXHIBITION ROUND.
- Qualifying teams shall be announced at the start of the EXHIBITION ROUND.
- In case of a tie for the fifteenth (15th) place, all teams vying for that place will automatically qualify to the EXHIBITION ROUND.
- In case of a tie for the top-scoring individual, a tiebreaker shall be held before the Exhibition Round. Coaches will be informed immediately, and another written exam shall be done until the tie is broken.

#### EXHIBITION ROUND

- The EXHIBITION ROUND shall be held off-stage and shall be a quiz-bee type of competition.
- Each team will start from zero point.

#### General Mechanics

- The competition is divided into three (3) phases: Easy, Average, and Difficult Phases.
  - There will be a total of twenty-five (25) questions.
- The table below shows the number of questions per round.

ROUND	OPERATIONAL	TRIVIA	Total
Easy	9	2	11
Average	6	2	8
Difficult	4	2	6
<b>Total</b>	<b>19</b>	<b>6</b>	<b>25</b>

- Trivia questions will be asked after the first question, after the middle question (after the 5th question in the easy phase, after the 4th question in the average phase and after the 3rd question in the difficult phase) and after the last question in the three phases. **Only the team(s) who answer(s) correctly in the operational question before the exhibition trivia question can answer an exhibition trivia question.**
- Questions in any given phase may be of objective or free-response type.
- The time allotted to answer the questions will vary according to the difficulty of the question.

**EASY ROUND:** Ten (10) seconds  
**AVERAGE ROUND:** Thirty (30) seconds  
**DIFFICULT ROUND:** Sixty (60) to Ninety (90) seconds

- Each question shall be read twice. Each team shall have a proctor who will provide the answer sheets and the scratch papers. They are also designated to collect the answer sheets after the time limit of each question.
- Answers in the computational form are not

allowed (e.g. 3/4) should be written as 6/8. Final answers in fractional form should be expressed in the lowest term.

- Intermediate values should not be rounded off. Failure to do so will render a wrong answer.
- The table below shows the scoring system for the three phases of the exhibition round.

EASY PHASE			
Operational Question (18 Items)	Answer	Pts.	Final Answer
Correct	Correct	5	5
Wrong	Wrong	-1	-2
No	No	0	-1
AVERAGE PHASE			
Operational Question (7 Items)	Answer	Pts.	Final Answer
Correct	Correct	7	3
Wrong	Wrong	-3	-2
No	No	-1	-1
DIFFICULT PHASE			
Operational Question (3 Items)	Answer	Pts.	Final Answer
Correct	Correct	10	3
Wrong	Wrong	-5	-2
No	No	-3	-1

- In between phases, there will be a ten-minute break for the update of the scores. At the end of the round, the cumulative score of each team will be computed.
- The top four (4) teams in the EXHIBITION ROUND based on their cumulative team scores during the Easy, Average, and Difficult Phases shall qualify for the FINAL ROUND. Qualifying teams shall be announced before the start of the Final Round.
- In case of a tie for the Fourth (4th) place, a tiebreaker question will immediately ensue and will be "sudden death" in nature.

#### FINAL ROUND

- The Final Round shall be held on-stage and shall be a board-work problem solving type of competition.
- Finalists will be assigned to write on a white board before the live audience on-stage, which will act as their solving area.
- All the qualifying teams are required to present their solutions completely, neatly, and orderly. Incomplete and wrong solutions will render a wrong answer. The members of the team are required to box their final answer.
- Just before reading the question, each team will be given their own copy of the question concealed inside an envelope.
- All questions will immediately proceed and will be sudden death/knock-out in nature. **A maximum of 30 to 90 seconds will be given to the finalists to answer each problem.**
- The teams will only be allowed to write on the board after the first reading. Failure to follow this will disqualify the team from answering the question. The time allotted will start after the second reading.
- Answers in the computational form are not allowed (e.g. 3/4) should be written as 6/8. Final answers in fractional form should be expressed in the lowest term.
- Intermediate values should not be rounded off. Failure to do so will render a wrong answer.

### Mechanics for Sudden death/ Knock-out

- Procedure:**
- Case 1: All teams got the correct answer.
  - All teams shall proceed to the next question.
  - Case 2: Three teams got the correct answer.
  - All three teams shall proceed to the next question.
  - The team who got a wrong answer will automatically be eliminated (apply general procedure).
  - Case 3: Two teams got the correct answer.
  - The two teams who got the correct answer shall proceed to the next question and shall compete for the first place.
  - The losing team shall take the second place, thus, the remaining two other teams will be given other question(s) to compete for the third place (apply general procedure).
  - Case 4: Only one team got the correct answer.
  - The team who got the correct answer will automatically be declared as the champion.
  - The remaining three teams will compete for the 2nd and 3rd place (apply general procedure).
  - Case 5: No team got the correct answer.
  - Another question will be given (apply general procedure).

The lone standing team who gave the last correct answer will be declared as the Grand Champion. The second from the last team who answered correctly will be hailed as the First Runner-up Winner.

The third from the last that had a positive advantage will be proclaimed as the Second Runner-up Winner.

### **PROTEST MECHANICS**

- Only members of the team or their coach/adviser can raise a protest to be forwarded to the Board of Judges.
- During the protest, the participant has the privilege of consulting any reference, provided they are relevant to the subject of the protest.
- Protests regarding a question will be tackled only before the next question is read. No complaints on a previous question shall be entertained once the quizmaster starts reading the next question.
- The decision of the Board of Judges is final and irrevocable.

### **PRIZES**

- 1st Place 10,000 Pesos
- 2nd Place 7,000 Pesos
- 3rd Place 5,000 Pesos

+ Certificates of Recognition, Medals and a Plaque of Recognition

their student ID or any proof of enrollment for the current term.

- Each school may send at most three (3) individual entries in the contest.
- The participant should not be joining any other event in ESTADISTIKA 2020.
- Each participating student is required to pay a non-refundable registration fee amounting to 350 Pesos. The registration fee is inclusive of an event kit for the student participants.

### **MATERIALS**

- Writing materials will be provided on the contest proper.
- Other unnecessary materials such as books, newspapers, journals, gadgets, and the like are not allowed during the contest. Failure to follow this will cause disqualification.

### **GENERAL GUIDELINES**

- The originality of work must always be observed. Plagiarism can be a subject for the contestant's disqualification.
- Biases and individual opinions are expected from the contestants. However, discretion will only be allowed as long as it is in the proper context.
- The contestant's name must not be written anywhere on the paper. Numbers will be assigned to each contestant, which will be written on the upper left-hand corner of the paper.
- Maintain a readable handwriting. Essays should be written on only one side of the paper. The contestants may use extra sheets, if needed.
- The maximum length of each entry should be 300 words (excluding articles). The word count should be indicated by the contestant on the upper right-hand corner of the paper.
- Two (2) hours will be given to the participants. The first 30 minutes are for the briefing and explanations of the guidelines and the remaining 1 hour and 30 minutes is allotted to conceptualize and finish their essays.

The topic, exclusively for the essay-writing contest, will be given during the contest proper. However, the topic is expected to be related to the theme of ESTADISTIKA 2020.

### **CRITERIA FOR JUDGING**

Content	25%
Relation to topic	20%
Mechanics	15%
Creativity	20%
Appropriateness of language	10%
Organization	10%
<b>TOTAL</b>	<b>100%</b>

### **PRIZES**

- 1st Place 2,000 Pesos
- 2nd Place 1,500 Pesos
- 3rd Place 1,000 Pesos

+ Certificate of Recognition and Medal

### **POSTER MAKING CONTEST**

#### **QUALIFICATIONS AND REQUIREMENTS**

- All bonafide Grade 7 to 12 students enrolled during the current term may join this contest. Upon registration on the day of the event, student participants are required to present their student ID or any proof of enrollment for the current term.
- Each school may send at most three (3) individual entries in the contest.
- The participant should not be joining any other event in ESTADISTIKA 2020.
- Each participating student is required to pay a non-refundable registration fee amounting to 350 Pesos. The registration fee is inclusive of an event kit for the student participants.

### **MATERIALS**

- Participating teams are required to bring WATERCOLOR ONLY of black, white and three primary colors (red, blue and yellow) to be used in this event.
- UPLB Statistical Society shall provide the contestants with boards that will be used for their posters.
- Other unnecessary materials such as books, newspapers, journals, gadgets, and the like are not allowed during the contest.
- FAILURE TO FOLLOW THIS WILL CAUSE DISQUALIFICATION.**

### **GENERAL GUIDELINES**

- Before the contest starts, participants will be asked to surrender coloring materials other than their watercolor palette.
- The participants will be asked to remove colors other than black, white and the three (3) primary colors (red, blue and yellow).
- In case, the contestant will use a non-detachable watercolor palette, the other colors in the palette will be covered and will be signed by the UPLB STATS member assigned.
- Participants will be given two (2) hours to conceptualize and finish their posters. After this, the finished posters will be displayed in an exhibit for evaluation.
- MIXING** will only be allowed using the **THREE PRIMARY COLORS**. Use of any other colors in mixing is prohibited.
- The topic, exclusively for the poster-making contest, will be given during the contest proper.
- However, the topic is expected to be related to the theme of ESTADISTIKA 2020.
- All submitted entries will be considered the property of UPLB STATS.

### **CRITERIA FOR JUDGING**

Relation to theme	50%
Creativity	20%
Uniqueness	20%
Neatness	10%
<b>TOTAL</b>	<b>100%</b>

### **PRIZES**

- 1st Place 2,000 Pesos
- 2nd Place 1,500 Pesos
- 3rd Place 1,000 Pesos

+ Certificate of Recognition and Medal

### **PHOTOGRAPHY CONTEST**

#### **QUALIFICATIONS AND REQUIREMENTS**

- All bonafide Grade 7 to 12 students enrolled during the current term may join this contest. Upon registration on the day of the event, student participants are required to present their student ID or any proof of enrollment for the current term.
- Each school may send at most one (1) individual entry in the contest.
- The participant should not be joining any other event in ESTADISTIKA 2020.
- Each participating student is required to pay a non-refundable registration fee amounting to 350 Pesos. The registration fee is inclusive of an event kit for the student participants.

### **MATERIALS**

- Participants are only allowed to use digital cameras or DSLRs with at most 24 megapixels.
- Filters and other media for photo enhancement are not allowed.

### **GENERAL GUIDELINES**

- This contest will be on-the-spot. Subjects should be captured within the University of the Philippines Los Baños campus ONLY.
- Participants will be given 15 minutes to conceptualize their subject and 45 minutes to shoot in the field. Each contestant should be accompanied by a UPLB STATS member.
- The coach of a participant may accompany the contestant in the field but is not allowed to talk to him/her.
- Subjects can be modified or scripted.
- Outputs should be given a title. UPLB Statistical Society shall provide the printing of the outputs in an A4 photo paper for the final judgment.
- The topic, exclusively for the photo contest, will be given during the contest proper. However, the topic is expected to be related to the theme of ESTADISTIKA 2020.
- All submitted entries will be considered the property of UPLB STATS.

### **CRITERIA FOR JUDGING**

Relevance to theme	40%
Clarity of expression	25%
Appreciation	20%
Photography Technicalities	15%
<b>TOTAL</b>	<b>100%</b>

### **PRIZES**

- 1st Place 1,000 Pesos

+ Certificate of Recognition and Medal

### **ESSAY WRITING CONTEST**

#### **QUALIFICATIONS AND REQUIREMENTS**

- All bonafide Grade 7 to 12 students enrolled during the current term may join this contest. Upon registration, student participants are required to present

## LIST OF ALLOWABLE CALCULATORS

ESTADISTIKA 2020 will not allow calculators not found in the list below to maintain fairness to all contestants. This list was obtained from the website of Professional Regulation Commission.

### CASIO STANDARD/DESKTOP/SCIENTIFIC CALCULATORS

530 1/2-115MS  
 20V 1/2-115S  
 470LA 1/2-122S  
 D-100V 1/2-220  
 D-120TE 1/2-250HC  
 D-120TV 1/2-260  
 D-208H 1/2-300SA  
 D-20L 1/2-300W  
 D-20M 1/2-350D  
 D-40L 1/2-350ES  
 D-60L 1/2-350ES PLUS  
 D-60M 1/2-350HA  
 DF-100 1/2-350MS  
 DF-100T 1/2-350TL  
 DF-120TV 1/2-350TLG  
 DF-240LB 1/2-350W  
 DF-320TM 1/2-401  
 D-J-120T 1/2-451M  
 D-J-220 1/2-501A  
 D-J-240 1/2-500ES  
 DM-1200T 1/2-506G  
 DM-1200TEV 1/2-506M  
 DM-1400TV 1/2-509D  
 DM-1500 1/2-509G  
 DM-1500TV 1/2-520G  
 DN-958A 1/2-531GH  
 DS-10TV 1/2-546D  
 DS-120TV 1/2-570AD  
 DS-1800S 1/2-570ES  
 DS-1TV 1/2-570ES PLUS  
 DS-208H 1/2-570MS  
 DS-20TV 1/2-570S  
 DS-2TV 1/2-570W  
 DS-3V 1/2-580  
 DS-881 1/2-560D  
 DW120TV 1/2-65  
 1/2-95ES PLUS 1/2-75  
 1/2-100D 1/2-82  
 1/2-100MS 1/2-820MS  
 1/2-100S 1/2-824  
 1/2-100W 1/2-825X  
 1/2-115D 1/2-82C

NS-310TM  
 O-40M  
 SL-100L  
 SL-100VC  
 SL-1000TV  
 SL-1100  
 SL-260TE  
 SL-210TE  
 SL-220TE  
 SL-300LV  
 SL-300TV  
 SL-305TE  
 SL-315TV  
 SL-320TV  
 SL-340VA  
 SL-340V  
 SL-760LB  
 SL-787LT  
 SL-757LT  
 SL-910T14  
 SX-100  
 SX-220  
 SX-300  
 SX-300P  
 SX-320P  
 WD-220T  
 WN-200T  
 WN-220T

MS-120TE  
 MS-120TV  
 MS-170LA  
 MS-170T  
 MS-20TV  
 MS-20V  
 MS-240T  
 MS-270LA  
 MS-270T  
 MS-310T11  
 MS-350  
 MS-373  
 MS-470  
 MS-470LA  
 MS-470LB  
 MS-5VC  
 MS-7T  
 MS-808V  
 MS-80TE  
 MS-80TV  
 MS-812TV  
 MS-8T  
 MS-8TV  
 MW-5V  
 MW-8V  
 MAX8V  
 NS-10T  
 NS-20T

JS-120TV  
 JS-140V  
 JS-20LA  
 JS-20TV  
 JS-40LA  
 JS-40V  
 JS-SC  
 JW120TV  
 JW200  
 LC-1000T  
 LC-1000TV  
 LC-160LV  
 LC-401B  
 LC-401LV  
 LC-403LD  
 LC-403LDTV  
 M-7LB  
 MJ-100  
 MJ-100T  
 MJ-120T  
 MS-1002  
 MS-100TE  
 MS-100TV  
 MS-10TV  
 MS-10V  
 MS-10VC  
 MS-115

### SHARP STANDARD/DESKTOP/SCIENTIFIC CALCULATORS

EL-331C  
 CH-112  
 CH-612  
 EL-124A  
 EL-144A  
 EL-125A  
 EL-145A  
 EL-2125  
 EL-233S  
 EL-231L  
 EL-240S  
 EL-242A  
 EL-243S  
 EL-250S  
 EL-310A  
 EL-310A-GR  
 EL-327S  
 EL-330A  
 EL-331A  
 EL-334F  
 EL-337C  
 EL-338F  
 EL-339H  
 EL-376S  
 EL-376S  
 EL-379S  
 EL-421M  
 EL-50011  
 EL-5011BK  
 EL-501V  
 EL-501W  
 EL-506R  
 EL-506V  
 EL-506W  
 EL-509D  
 EL-509G  
 EL-509R  
 EL-509V  
 EL-509V-531V  
 EL-510R  
 EL-520G  
 EL-520V  
 EL-520V1BK  
 EL-520VA  
 EL-520V  
 EL-531GH  
 EL-531RH  
 EL-531VH  
 EL-531V  
 EL-545L  
 EL-546VA  
 EL-655G  
 EL-6053  
 EL-6750  
 EL-6810  
 EL-6850  
 EL-771C  
 EL-1132  
 EL-1711G  
 EL-19211G  
 EL-19531

### HEWLETT-PACKARD STANDARD/DESKTOP/SCIENTIFIC CALCULATORS

HP 95 HP Office Calc 100 HP Quickcalc  
 HP 10S HP Office Calc 200 Lifestyle  
 HP30S HP Office Calc 300  
 HP Smartcalc 300S HP Easycalc 100  
 SDC-8610 SLD-7008  
 SDC-8610A SLD-742N  
 SDC-8620A STL-795  
 SDC-8975 TL-780  
 W-11S

TS-1200TG  
 TS-120TL  
 TS-120TS  
 TS-121TC  
 TX-1210E  
 TX-1210H  
 TX-1210H II  
 TX-12H  
 WS-112H  
 WS-1200TV  
 WS-1210H  
 WS-1210H II  
 WS-1210T  
 WS-1610 T  
 LS-89H  
 LS-89H II  
 LS-89HV B  
 LS-89HV G  
 LS-89HV Y  
 LS-98V  
 LS-98V II  
 LS-OT  
 MP-120LTS  
 MP-121LTS  
 MP-121DTS  
 MP-111LTS  
 PI-DTS II  
 F23-DTS II  
 P3420-DL  
 TS-10TS  
 TS-120 TL

ARCUS 1 LCD-612ST SD-805M  
 HL-110 SD-100H SD-81H  
 HL-98L SD-100HW SD-828  
 LCD-186 SD-100V SD-335

### OTHER BRANDS

CEBAR CD-02 KARCE KC 250 TIME BIRD SJC-122  
 DAL 506X KARCE KC 539 TAKSUN TS-128  
 LIFE LONG TEXAS T1 30 TAKSUN TS-217  
 TL 30XS PORPO YH-105 TAKSUN TS-1288  
 KARCE-833 PORPO YH-106

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