

07-18-0016
R-0019



Department of Education
Region X- Northern Mindanao
DIVISION OF MALAYBALAY CITY
Cor. Don Carlos and Guingona Sts., Malaybalay City



DIVISION ADVISORY

To: Education Program Supervisor Designates/Coordinators
Public Schools District Supervisors
Public/Private Elementary School Heads

128
Deped-MALAYBALAY CITY DIVISION
RELEASED

Date: 07-19-13 Time: 11:58am
By: [Signature]

From : **PARISIA ORONG**
Principal IV
4
OIC to the office of the Schools Division Superintendent
This Division

Date : July 18, 2013

Re : **DISSEMINATION OF THE ADMINISTRATION OF THE PHILIPPINE SCIENCE HIGH SCHOOL
NATIONAL COMPETITIVE EXAMINATION (PSHS – NCE)**

This is to inform all Elementary School Heads that the Philippine Science High School – National Competitive Examination will be conducted on September 28, 2013 for the selection and screening of scholars for 2014 –2015. You are hereby expected to encourage qualified pupils to take the exam.

Attached are the criteria for eligibility of the interested pupils' and the application form which will be submitted on or before July 30, 2013 to this office Attention : ANALY L. OCIER , EPS Designate in Science. Should there be more queries please contact mobile number 09175467283 or you may contact 09176773332 or you may open PSHS System website, www.pshs.edu.ph.

For immediate dissemination and guidance.



**2014 PHILIPPINE SCIENCE HIGH SCHOOL SYSTEM
NATIONAL COMPETITIVE EXAMINATION (NCE)
APPLICATION FORM**

THESE MATERIALS ARE NOT FOR SALE. THEY
MAY BE PHOTOCOPIED AND MAY BE
DOWNLOADED FROM www.pshs.edu.ph

Instructions:

Please accomplish this form in two copies. Type or print legibly all information needed. **DO NOT ABBREVIATE. DO NOT LEAVE ANY ITEM BLANK.** Countersign all erasures and corrections made.

DEADLINE OF SUBMISSION: August 2, 2013

Staple Only

1" x 1"
Photo

PERSONAL DATA:

1) NAME OF APPLICANT: (Last Name, First Name, Middle Name)

2) BIRTHDATE:

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
M	M	D	D	Y	Y	Y	Y

3) AGE as of June 1, 2013:

4) SEX:

 MALE
 FEMALE

5) CONTACT NUMBERS:

(pls. include all possible contact numbers)

6) EMAIL ADDRESS:

7) COMPLETE HOME/ PERMANENT ADDRESS: (pls. include your zip code)

CONSIDER THE FOLLOWING WHEN CHOOSING A CAMPUS:

- The score in the NCE is the major basis for qualifying to the PSHS.
- All examinees are ranked from highest to lowest. The top 240 or so qualifiers irrespective of region of origin will be invited to enroll at the Main Campus but acceptance to the invitation is not compulsory.
- Qualifiers for a regional campus who are residents of that region/feeder area are given priority to enroll in that campus.
- Non-residents of the region/feeder area may be considered as qualifiers if their scores are within the cut off score for that region, if specified by applicant as a campus choice (1 or 2) upon application.

TO BE FILLED UP BY THE PARENTS:

- | | | |
|---|--------------------------|--------------------------|
| | YES | NO |
| 1. Is your child a Filipino citizen? | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Does your child have pending application as immigrant in any foreign country? | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Has your child taken the PSHS National Competitive Examination before? | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. If not qualified in the Main Campus, are you willing to enroll to a Regional Campus? | <input type="checkbox"/> | <input type="checkbox"/> |
5. If YES in No. 4, indicate your top 2 choices of campus by writing "1" as 1st choice and "2" as 2nd choice in the box provided.

- | | |
|---|--|
| <input type="checkbox"/> ILOCOS REGION – San Ildefonso, Ilocos Sur | <input type="checkbox"/> EASTERN VISAYAS – Palo, Leyte |
| <input type="checkbox"/> CAGAYAN VALLEY – Bayombong, Nueva Vizcaya | <input type="checkbox"/> CENTRAL MINDANAO – Balo-i, Lanao del Norte |
| <input type="checkbox"/> CENTRAL LUZON – Clark Freeport Zone, Pampanga | <input type="checkbox"/> SOUTHERN MINDANAO – Tugbok, Davao City |
| <input type="checkbox"/> BICOL REGION – Goa, Camarines Sur | <input type="checkbox"/> CORDILLERA ADMIN. REGION – Irisan, Baguio City |
| <input type="checkbox"/> WESTERN VISAYAS – Jaro, Iloilo City | <input type="checkbox"/> SOCCKSARGEN – Paraiso, Koronadal City |
| <input type="checkbox"/> CENTRAL VISAYAS – Argao, Cebu | <input type="checkbox"/> CARAGA – Ampayon, Butuan City |

I certify that the above information is true and correct. I understand that any false or misleading information will result to the disapproval of application/admission.

Parent's Signature over Printed Name

TO BE FILLED UP BY THE SCHOOL AUTHORITY CONCERNED:

1) NAME OF SCHOOL (Write name of school in full):

2) COMPLETE SCHOOL ADDRESS:

3) SCHOOL TYPE: Public Private

4) GRADE LEVEL as of JUNE 2013:

5) SCHOOL CONTACT NOS.:

6) Pupil's GENERAL AVERAGE GRADE (SY 2012-2013):

7) Pupil's RANK in the Batch (SY 2012-2013):

8) Number of Pupils in the Batch (SY 2012-2013):

- I hereby certify that the pupil-applicant is currently enrolled in his/her 6th year of basic elementary education (exclusive of kindergarten & preparatory school) for SY 2013-2014.
- I also certify that the pupil-applicant (Please check the appropriate box)
 - belongs to the upper 10% of the batch (SY 2012-2013) and does not have a grade below 80.
 - does not belong to the upper 10% of the batch (SY 2012-2013), but has a minimum final grade of 85 or higher in Science and Math, and a minimum final grade of 80 in all other subjects.

I hereby certify that the pupil-applicant is of good conduct and behavior.

Principal/School Head/Registrar's Signature over Printed Name

Guidance Counselor/Adviser's Signature over Printed Name

(PLEASE DO NOT DETACH)

This serves as a proof of application. IMPORTANT: This DOES NOT serve as the test permit.

Submit the following upon filing of application:

- Fully accomplished Application Form in two (2) copies
- Two (2) identical recent 1 x 1 ID pictures
- Non-refundable test fee - P 100 for private school students/Free for public school students
- Copy of report card (SY 2012-2013)

For use of the PSHS Registrar/DOST or PSTO Coordinator:

RECOMMENDATION

As per data above:

Approved: []
Disapproved: []

Reason/s for Disapproval: _____

Processed by: DOST _____
 PSHS _____

Date: _____

For use of the PSHS Cashier's Office:

Mode of Payment: [] Cash
[] Money Order

No. of Applicants: _____ (for group filing)

Amount Paid: _____

No. of stamps issued: _____

Series Number: _____

Payment Received by: _____

Date: _____

REMINDERS TO THE EXAMINEE:

- Be at your testing center on **September 28, 2013** one (1) hour before your scheduled examination (either a.m. or p.m. as indicated in the exam permit).
- Present the **Examination Permit** and your **school I.D.** to the Proctor/ Room Examiner.
- Bring at least **two sharpened #2 pencil**, a **good eraser** and **snacks**.
- If you do not receive your examination permit two (2) weeks before the exam, you may visit or call the nearest PSHS Campus or call PSHSS-Admissions Office at telephone no. (02) 926-5701 or check at www.pshs.edu.ph.**
- You will be notified if you qualify to enroll at PSHS either by mail or you may also check results at www.pshs.edu.ph. You may also inquire from the nearest PSHS Regional Campus or call PSHSS-Admissions Office, Tel. No.: (02) 926-5701.

Admissions Office
OED, PSHS

THE PSHS SYSTEM MILESTONES

Republic Act 3661 established the Philippine Science High School and mandates it to offer on a free scholarship basis a secondary course with emphasis on subjects pertaining to science with the end in view of preparing its students for careers in science and technology. From the first campus in Diliman, Quezon City in 1963, it has at present expanded into twelve campuses nationwide.

The Davao and Iloilo campuses were created in 1988 and 1993 respectively, followed by that in Tacloban in 1994. The increase in the number of campuses necessitated the harmonization of policies and curriculum to ensure that uniform standards are maintained in all campuses. Thus, the PSHS System was created by RA 8496 in 1998 when three other campuses were established in Cagayan Valley, Bicol and Central Mindanao Regions.

A campus in Ilocos Region was opened in 2003 in response to one of the provisions in RA 9036, *An Act Strengthening the Governance and Defining the Scope of the PSHS System, Amending for the Purpose RA 8496*. Another campus opened in 2006 at Central Visayas. Two more campuses opened in June of 2009, the Central Luzon Campus and the Cordillera Administrative Region Campus. The SOCCSKSARGEN Region Campus and Caraga Region Campus will be opened in June 2013 and June 2014, respectively. As provided for by law, additional campuses in other regions will be established in the future.

The PSHS System is an attached agency of the Department of Science and Technology (DOST). The highest policy making body of the PSHS System is the Board of Trustees with the DOST Secretary as Chairman.

VISION

The Philippine Science High School is the country's leading science high school that prepares its scholars to become world-class Filipino scientists dedicated to nation-building.

MISSION

The Philippine Science High School, operating under one system of governance and management, provides scholarships to students with high aptitude in science and mathematics.

The PSHS offers an education that is humanistic in spirit, global in perspective and patriotic in orientation. It is based on a curriculum that emphasizes science and mathematics, and the development of well-rounded individuals.

The PSHS prepares its students for careers in S&T and contributes to nation building by helping the country attain a critical mass of professionals and leaders in S&T.

SCHOLARSHIP PRIVILEGES

- Free tuition fee
- Free loan of textbooks
- Monthly stipend
- Uniform, transportation and living allowances for low income groups.

CRITERIA FOR ELIGIBILITY

A grade 6 elementary pupil from a duly recognized school by the Department of Education, who meets the following criteria is eligible to apply for the PSHS National Competitive Examination (NCE). He/She must:

1. belong to the upper 10% of the batch (SY 2012-2013) and does not have a grade below 80 as certified by the School Principal or Registrar. If the applicant does not belong to the upper 10%, he/she should have special aptitude in science and math as evidenced by the report card, with at least a final grade of 85 in Science and Math and 80 in all other subjects;
2. be a Filipino citizen with no pending application as immigrant to any foreign country;
3. be born on or after June 1, 1999 ;
4. be in good health and fit to undergo a rigorous academic program;
5. be of good conduct and behavior; and
6. not have taken the PSHS NCE previously.

REQUIREMENTS

1. Fully accomplished Application Form in two (2) copies
2. Two (2) identical recent 1 x 1 ID pictures
3. Non-refundable test fee — for private school students — P 100
— for public school students — free
4. Copy of report card (SY 2012-2013)

SCREENING PROCESS

Only one test will be administered, a scholastic aptitude test (known as National Competitive Examination) which is designed to measure Scientific Ability, Quantitative Ability, Abstract Reasoning and Verbal Aptitude. **The NCE will be administered on September 28, 2013.**

APPLICATION PROCESS

The PSHS NCE application form and the accompanying material are NOT FOR SALE, may be PHOTOCOPIED, and may be DOWNLOADED FROM THE PSHS WEBSITE, www.pshs.edu.ph. NO RESERVATION FEE is REQUIRED.

Application forms are available and may be filed at any of the following: PSHS Campuses, DOST Regional offices, or Provincial Science and Technology Offices. Application forms with incomplete information will not be processed. Erasures, alterations and insertions must be initialed by the applicant.

The Examination Permit/s will be issued to the applicants upon completion of all documents by the campus where the application was processed. For applications filed with DOST agencies, the exam permits will be mailed to the applicant or to the school principal for distribution to its applicant/s. **In case the exam permits are not received two weeks before the examination day, the applicants should check with the nearest PSHS campus, DOST Regional Office, DOST Provincial Science and Technology Office, or the PSHS Admissions Office.**

The deadline for filing of application is: **August 2, 2013**

The date of the Examinations is: **September 28, 2013**

SAMPLE TEST QUESTIONS

The PSHS National Competitive Examination consists of items designed to measure verbal aptitude, abstract reasoning, quantitative ability, and scientific aptitude. The following are sample items to familiarize the applicant with the types of items found in the test.

VERBAL APTITUDE

1. The item below consists of an underlined word, followed by four (4) choices. From the four, select the word that is closest in meaning to the word in the original sentence if it is substituted for the underlined word. Indicate your answer by shading the appropriate circle on your Answer Sheet.

The doctor placed a few drops of medicine in the patient's eyes. The medicine caused the patient's eyes to become dilated.

- A. reduced C. rounded
B. enlarged D. irritated

2. The item below consists of a related pair of words, followed by four lettered pairs of words. Select the pair that BEST expresses a relationship similar to that expressed in the original pair. Indicate your answer by shading the appropriate circle on your Answer Sheet.

MICROSCOPE : SEE :: _____ : _____

- A. amplifier : hear C. calculator : write
B. song: listen D. camera : smile

3. From the choices given, select the word that BEST completes the meaning of the sentence. Indicate your answer by shading the appropriate circle on the Answer Sheet.

The study of these animals _____ truly fascinating. Many books have been written about them.

- A. are B. is C. were D. have been

4. Some parts of the sentence below are underlined and marked A, B, C, and D. These parts may or may not have an error. If the sentence has an error, choose the lettered part that makes it wrong. If the sentence has NO ERROR, choose E. Indicate your answer by shading the appropriate circle on the Answer Sheet.

This cactus needs much sunlight than the others. NO ERROR.

- A B C D E

5. Read the passage carefully. Then, choose from the statements below, one that is NOT directly stated but is IMPLIED. Indicate your BEST answer by shading the appropriate circle on your answer sheet.

Cholesterol, a fatty substance, is produced by almost every cell in the body, but as much as 70 percent is manufactured in the liver. It is present in many of the foods we eat. While cholesterol is necessary to produce hormones and to make nerve cells, an excessive amount often results in atherosclerosis, a condition characterized by fatty deposits that cling to the walls of blood vessels, narrowing their diameter and greatly increasing the likelihood of heart attack and stroke.

- A. High levels of cholesterol is necessarily harmful to the body.
- B. Controlling the amount of cholesterol in the body will lessen the risk of heart disease.
- C. An excessive amount of cholesterol results in atherosclerosis.
- D. Cholesterol causes the narrowing of the diameter of blood vessels

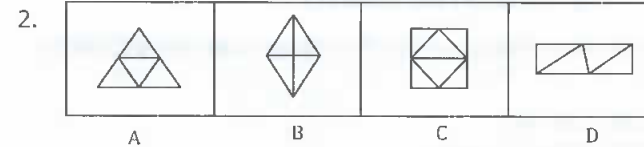
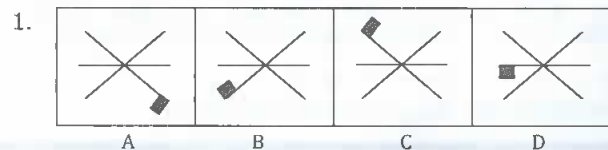
ANSWERS TO THE VERBAL APTITUDE TEST QUESTIONS:

1. **B** The word dilate means to make or become larger or wider. When something (like the pupil of the eyes) becomes dilated, it appears enlarged.
2. **A** A microscope magnifies to help a person see it in the same way that an amplifier magnifies sound in order to help a person hear.
3. **B** The item is one on Subject-Verb Agreement. The subject is study. It is singular. So the verb must be singular and in the simple present tense.
4. **B** The sentence is an item on degree of comparison of adjectives. When a sentence compares only two persons or things, the comparative degree is used. In the sentence, This cactus is being compared to the others, hence, the term much should be more. The term than further supports the need for the comparative degree.
5. **A** Statements C and D are directly stated in the paragraph. Statement B may be true but since the effect of cholesterol is not confined to the heart and affects the blood vessels all over the body, choice A is the BEST answer.

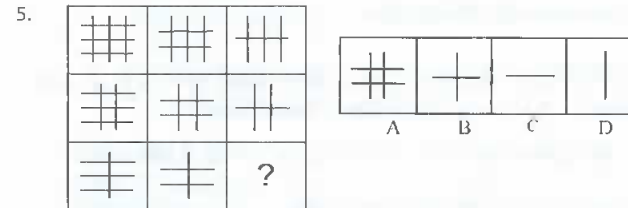
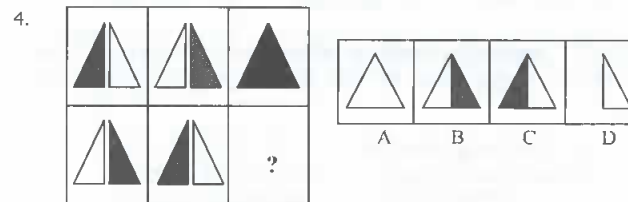
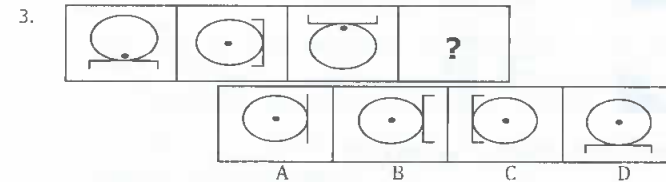
ABSTRACT REASONING

DIRECTIONS:

For Items 1 and 2: Choose the box that is DIFFERENT from the other three in the set. Indicate your answer by shading the appropriate circle on your Answer Sheet.



For Items 3, 4, and 5: The boxes go together in a certain way. Find out what the relationship is from among the lettered boxes then choose the one that has the same relationship and would fit the empty box. Indicate your answer by shading the appropriate circle on your Answer Sheet.

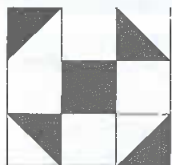


ANSWERS TO THE ABSTRACT REASONING QUESTIONS:

1. **D** For item no. 1, The flags in three of the figures follow a clockwise movement except one. The figure that deviates from the rule is figure D. Thus, the answer is D.
2. **C** Three figures in item no. 2 contain 4 triangles each, but figure C has 6.
3. **C** From the choices, box C correctly fits the pattern shown by the first three boxes.
4. **A** In item no. 4, the figures follow a rule. When the first two figures are overlapped, the colors of the outer triangles dominate. The second set of triangles when overlapped will produce a white triangle since the outer triangles are colored white. Thus, from the choices, the box that correctly fits the empty box is box A.
5. **B** The figure shows a decreasing number of lines from both directions. Figure B follows the pattern.

QUANTITATIVE ABILITY

- If the sum of four numbers is even, which of these statements CANNOT be true?
 - All four numbers are odd.
 - 3 numbers are odd and 1 is even.
 - 2 numbers are odd and 2 are even.
 - All four numbers are even.
- In the figure below, what is the ratio of the shaded area to the unshaded region?



- 1:4
- 2:5
- 1:3
- 1:2

- $p\%$ of m is n . If n is greater than m then
 - $p < 100$
 - $p > 100$
 - $p \geq 100$
 - $p \leq 100$
- What is the SMALLEST possible difference when each of the digits 2, 4, 5, 6, 9 is placed in exactly one of the boxes of this subtraction problem?

-		

 - 58
 - 123
 - 149
 - 171
- Philippine time is $7\frac{1}{2}$ hours ahead of Switzerland time. If it is 9:20 *p.m.* in Manila, Philippines, what time is it in Bern, Switzerland?
 - 2 *a.m.*
 - 1:50 *p.m.*
 - 7:30 *p.m.*
 - 1:50 *a.m.*

SOLUTION TO THE QUANTITATIVE ABILITY QUESTIONS:

- B** Recall, even plus even is even, odd plus odd is even; and even plus odd is odd. Hence, the sum of three odd numbers and one even number is odd.
- D** Area of the shaded region = 3 square units
Area of the unshaded region = 6 square units
Hence, the ratio of the shaded area to the unshaded area is 3:6 or 1:2
- B** $p\%$ of $m = n$, $n > m$ implies $p > 100$.

$$p\% \text{ of } m = n \quad \frac{p}{100} \times m = n$$

$$\frac{100}{p} \times m = n. \text{ Hence, } m = n.$$

If $p < 100$, then $n < m$.
Then $p = 100$

- C** The smallest possible difference is obtained by making the minuend as small as possible and the subtrahend as large as possible.

$$\begin{array}{r} 245 \text{ minuend} \\ - 96 \text{ subtrahend} \\ \hline \end{array}$$

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- B** Philippine time 9:20 *pm* Switzerland time is $7\frac{1}{2}$ hrs. late of Philippine time.

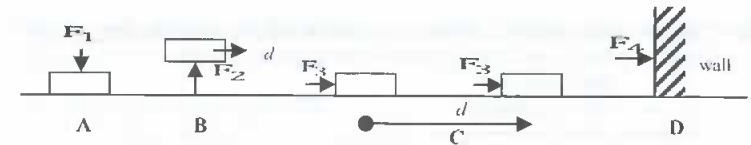
$$\begin{array}{r} 9:20 \quad \longrightarrow \quad 8:80 \\ - 7:30 \quad \longrightarrow \quad 7:30 \\ \hline \end{array}$$

Switzerland time is 1:50 *pm*

SCIENTIFIC ABILITY

- A new drug for the treatment of tuberculosis was being tested in a hospital. Patients in Group **A** actually received doses of the new drug; those in Group **B** were given sugar pills. Group B represents
 - a scientific experiment
 - a scientific method
 - the experimental setup
 - the control set-up
- You want to find out what will happen to the boiling temperature of 10 ml of water if rubbing alcohol is added to it. What would be the best thing to do?
 - Check the boiling temperature of rubbing alcohol in a book and draw your conclusions.
 - Assume that there would be no effect.
 - Guess that rubbing alcohol would raise the boiling temperature of water.
 - Set up an experiment to discover the effect of rubbing alcohol on the boiling temperature of water.
- A chemist is asked to determine whether exposure to sunlight affects the color of a liquid. Which of the following precautions could he most probably ignore?
 - Place one sample in a dark place.
 - Keep the samples covered to prevent evaporation.
 - Keep the temperature of the samples constant.
 - Pour the liquid into bottles of different shapes.
- An electric bell rings while inside an enclosed glass jar. When the air inside the jar is pumped out, the sound becomes fainter and fainter until it is gone. On the basis of this, one can conclude that:
 - sound travels faster in air than in glass.
 - sound does not travel in a vacuum.
 - sound travels faster in air than in a vacuum.
 - Sound does not travel in glass.

For question 5, refer to the diagram below.



Work is done by a force only if there is displacement along the direction of the force. The diagram above shows that the force F_1 in **A** presses against the block. In **B**, the force F_2 is vertical while the block is displaced horizontally. In **C**, F_3 pushes the block to the right a distance d , and in **D**, F_4 is applied against a concrete wall.

5. Work is accomplished in

- A. A
- B. B
- C. C
- D. D

ANSWERS TO THE SCIENTIFIC ABILITY QUESTIONS:

1. **D** In an experiment, there must be an experimental set-up and a control setup. Group A is the experimental setup and Group B is the control setup.
2. **D** Doing the experiment is the best way to find the effect of adding rubbing alcohol on the boiling temperature of water. The rest of the choices would not give valid conclusions.
3. **D** *A*, *B*, and *C* are all important precautions since not doing them may affect the rest of the experiment. Only *D* can be ignored.
4. **B** Based on the given observation, sound was not heard when air was pumped out of the jar; so sound does not travel in a vacuum.
5. **C** Based on the given definition of work, only *C* is the correct answer since force F_3 displaced the block along its direction. Displacement did not take place in *A*, nor in *D*. In *B*, F_2 and the displacement d are not in the same direction.

Where to file applications:*

PSHS-Campuses

Main Campus Agham Road, Diliman, Q.C. Tel. No. (02) 929-1606 / 924-0614	Central Visayas Campus Talaytay, Argao, Cebu Tel No. (032) 513-0962 / 513-0957
Ilocos Region Campus San Ildefonso, Ilocos Sur Tel. No. (077) 726-4190 to 91	Eastern Visayas Campus Palo, Leyte Tel. No. (053) 323-5617 / 323-5616
Cagayan Valley Campus Bayombong, Nueva Viscaya Mobile No.: (078) 808-0343	Central Mindanao Campus Balo-i, Lanao del Norte Tel. No. (063) 836-0097 to 98
Central Luzon Campus Clark Freeport Zone, Angeles City Tel. No. (045) 499-0136	Southern Mindanao Campus Tugbok District, Davao City Tel. No. (082) 293-0002 / 0004
Bicol Region Campus Goa, Camarines Sur Tel. No. (054) 453-2048 / 453-1463	Cordillera Administrative Region Campus Irisan, Baguio City Tel. No. (074) 442-1100 / 424-3376
Western Visayas Campus Jaro District, Iloilo City Tel. No. (033) 329-5644 / 329-2011	SOCCKSARGEN Region Campus Paraiso, Koronadal City, South Cotabato c/o Admissions Office, PSHSS-OED Tel. No.: (02) 926-5701

*You may also file at DOST Regional Offices or at DOST Provincial Science and Technology Offices.