AP POLYCET Syllabus

7.0 PATTERN AND SYLLABUS FOR THE EXAMINATION

The examination (POLYCET) will be of 2 hours duration consisting of only one paper as per the syllabus in the subjects of Mathematics, Physics and Chemistry of X Class (S.S.C.) Examination, March / April, 2020 as prescribed by State Board of Secondary Education, Andhra Pradesh.
The Question paper consists of 120 questions with a choice of four responses for each question with only one correct response among them.

i) 60 Questions in Mathematics for 60 Marks.

ii) 30 Questions in Physics for 30 Marks.

iii) 30 Questions in Chemistry for 30 Marks.

Besides the items listed at Serial No. 5 above, the candidates should not bring any other material. This instruction sheet also should not be brought into the examination Hall. Instruction sheet would be available in the Examination hall for ready reference. Candidates should not bring Logarithmic Tables, Calculators, pagers, Cell phone or any other supporting electronic gadgets into the Examination Hall. Any candidate found in possession of any forbidden material will be sent out of the Examination Hall and may also lead to the cancellation of performance of the candidate.

Candidates must remain seated in their allotted places till the completion of the Examination. In no case will they be allowed to leave the examination Hall till 12-00 Noon, i.e. one hour after the commencement of the Examination. Before leaving, the candidates must return the response sheet/answer sheet and can take away the question paper booklet.

Every Candidate appearing for POLYCET-2020 shall be provided with a specially designed Optical Mark Reader (OMR) Response Sheet (Answer Sheet), on which the candidate shall have to mark his or her answers and other relevant data. The method of marking the answers is illustrated in this section. Candidates are advised to go through the instructions sheet thoroughly and practice the same at their residence, which would make it easy for them to answer in the Examination Hall.

The candidates should handle the Optical Mark Reader (OMR) response sheet carefully. They are advised not to fold or wrinkle or tear the response sheet under any circumstances. Further the Candidates are advised not to scribble or make any marks on the response sheet except marking the answers and other relevant data at the appropriate place on the Response Sheet. Any violation of these instructions will automatically lead to the disqualification of the Candidate.

Candidates shall note that they will not be given a second blank Optical Mark Reader (OMR) response sheet under any circumstances. Hence they are advised to be very careful while handling the OMR response sheet. Candidates shall read the instruction sheet carefully before starting to answer the questions.

The question paper booklet given to the Candidates shall consist of 120 multiple choice type questions in three different sections with four responses given to each question out of which only one response is correct for the given question. Candidates shall mark the correct answer in the Optical Mark Reader (OMR) response sheet by shading in Dark the appropriate circle with 2B pencil only. They should not use under any circumstance Ball pen for this purpose.

Candidates shall be required to indicate their Hall ticket number on the Optical mark reader (OMR) response sheet. It shall be done as demonstrated by shading the appropriate circle.

Candidates are requested to answer all questions. All questions carry equal marks. There is no negative marking for incorrect answers.

8.0 How to answer and fill up the details on OMR Response Sheet?

Follow the instructions given on the OMR Response Sheet. Fill up or darken all the Relevant Circles/Boxes on the OMR Sheet carefully otherwise your Answer Sheet will be invalidated.
# INSTRUCTIONS

1. Answer by shading in Dark the Appropriate Circle. Please use 2B Pencil only for darkening Circle. All Boxes Side-1 are to be filled with Ball Point Pen only (Blue or Black).

2. Do not Scribble or make any stray marks on this sheet.

3. Do not wrinkle, Fold, Tear or Staple.

4. Please mark the most appropriate response chosen by you, only in the corresponding space against the number corresponding to the Question, you are attempting.

5. Please darken only one Circle for each question as shown below.

6. Marks should be dark and the circle should be filled completely.

7. If you wish to change an answer, please ERASE completely the already darkened circle and then make a new mark.

8. Rough work must not be done on the Answer Sheet, Please use the space given at the bottom of the each paper of the Question Paper booklet, for doing rough work.

9. Please darken the appropriate circle against the items From Sl.No. 10 to 13 (Side-2)

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Use Ball Point Pen (Blue or Black) to fill the details such as name of the candidate, hall ticket number, name of the examination centre, date of examination, candidate's signature on side 1 of OMR Sheet.
Use 2B Pencil only for darkening the Circles for filling the details and recording the answers on the Response Sheet.

Example:
If the most appropriate Response to Question is 1, please mark as shown below

Your Question Paper Booklet will have a Serial No., a Booklet code either 'A', 'B', 'C' or 'D' printed on the Right hand top corner. Enter the question paper booklet serial number and the Question Paper Booklet Code at the appropriate place on the OMR Sheet. Also darken the corresponding circle against the Question Paper Booklet serial number and booklet code on the OMR Sheet.
Enter your hall ticket number and darken the corresponding circle below each digit of your hall ticket number.

Darken the corresponding details such as sex, qualification, reservation category and minority status.

Please darken the most appropriate answer/response chosen by you, only in the corresponding circle against the number corresponding to the question, you are attempting.

If you darken more than one circle against a question, the Answer/Response to that question will be invalidated and no mark will be assigned to you for that question.

Please do not make any other marks ELSEWHERE on the Answer Sheet. If you do so the Answer Sheet will be invalidated.

If you wish to change an answer, please erase completely the already darkened circle, and then darken a new circle.

9.0 RESULTS OF POLYCET-2020

The minimum marks for declaring a candidate to have passed in the Entrance examination shall be thirty percent i.e., 36 marks out of 120.

Candidates belonging to Scheduled castes or Scheduled Tribes shall be assigned ranking irrespective of the marks obtained in the entrance test. Such candidates even less than 30% marks in POLYCET-2020 shall be eligible to compete for their category of seats during the admission.

The marks obtained at the entrance test shall be considered for the purpose of assigning rank, on the basis of which, selection shall be made for admission into diploma courses.

The above rules are subject to any amendments that may be issued by the Government from time to time.

Every care will be taken to avoid errors in the valuation of answer sheets, tabulation of results and ranking of the candidates. Hence, request for revaluation or re-totaling will not be entertained under any circumstances.

In case of a tie in rank at entrance test, the marks of the following subjects at Entrance Test in the same order as given below shall be considered for resolving the tie.

   i) Mathematics   ii) Physics   iii) Date of Birth

While resolving the tie basing on the Date of birth as entered in the S.S.C. Certificate of the Candidate, candidate born earlier will be deemed to have obtained higher rank (better rank).

In case the tie is still not resolved, the candidate who has secured higher percentage of marks in the qualifying test will be considered to have obtained a better rank, to resolve the tie.

The results are likely to be declared within fifteen days from the date of test. Rank Cards will also be dispatched within a week from the date of declaration of results.

The Candidates can download rank card from https://polycetap.nic.in or www.sbtetap.gov.in or from any help line centers or otherwise can contact coordinator of any helpline center for any further assistance.
ANNEXURE-I

SYLLABUS FOR COMMON ENTRANCE TEST

The syllabus of Mathematics, Physics and Chemistry for POLYCET-2020 is the same as that of SSC Examination of March / April 2020 conducted by the Board of Secondary Education, Andhra Pradesh.

Structure of the question paper:

The question paper for common Entrance Test for admission into Polytechnics consists of 120 questions.

<table>
<thead>
<tr>
<th>Section A</th>
<th>01 to 60</th>
<th>Mathematics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section B</td>
<td>61 to 90</td>
<td>Physics</td>
</tr>
<tr>
<td>Section C</td>
<td>91 to 120</td>
<td>Chemistry.</td>
</tr>
</tbody>
</table>

All questions are of multiple – choice type. Each question will have a stem and four answers noted against as 1, 2, 3 and 4. Out of these four, only one is an appropriate answer to the statement given in stem and other three are distracters. A few sample questions of the type in all subjects are shown here. The stem is given both in Telugu and English. The distracters are also given in both languages whenever necessary. All correct responses (Answers) to the questions must be entered by shading / darkening the circle / oval on the OMR Response Sheet provided separately for this purpose.

Model Questions

**MATHEMATICS**

1. If \( \frac{a}{ax}, \frac{1}{ay}, \frac{1}{az}, b \) are in G.P then
   (1) \( a, x, y \) are in G.P
   (2) \( b, x, y \) are in G.P
   (3) \( x, y, z \) are in G.P
   (4) None

2. \( \lim_{x \to 11} \frac{x^{12} - 11^{12}}{x^2 - 11^2} = \)
   (1) \( 12(11)^{12} \)
   (2) \( -12(11)^{12} \)
   (3) \( 12(11)^{11} \)
   (4) \( -12(11)^{11} \)

3. \( \sim (p \lor q) = \)
   (1) \( p \lor q \)
   (2) \( \sim p \lor q \)
   (3) \( p \land q \)
   (4) \( \sim q \land p \)

4. \( \sin^2 1^\circ + \sin^2 2^\circ + \sin^2 87^\circ + \sin^2 89^\circ = \)
   (1) \( 2 \)
   (2) \( 3 \)
   (3) \( 4 \)
   (4) \( 1 \)
61. For complete destructive interference at any point, the phase difference between the two waves must be equal to

\[
\frac{\pi}{\lambda} \quad \frac{\pi}{4} \quad \frac{\pi}{2} \quad \pi
\]

62. The distances of two points on the axial line of a short bar magnet are 2d and d respectively. The ratio of magnetic inductions at these points is

\[
(1) \ 4 : 1 \quad (2) \ 1 : 4 \quad (3) \ 8 : 1 \quad (4) \ 1 : 8
\]

63. The control rods used in a Nuclear Reactor are made up of

(1) Zinc \quad (2) Boron \quad (3) Radium \quad (4) Barium

(1) 4n series \quad (2) (4n+1) series \quad (3) (4n-1) series \quad (4) (4n+3) series

65. The process of fixing messages to r.f carrier waves is called

(1) Rectification \quad (2) Demodulation \quad (3) Amplification \quad (4) Modulation

CHEMISTRY

91. Molecular formula of hexene

(1) C₆H₁₄ \quad (2) C₆H₁₂ \quad (3) C₆H₁₀ \quad (4) C₆H₁₂

92. The carbon compound which reacts with Tollen's reagent

(1) Alcohol \quad (2) Acid \quad (3) Ester \quad (4) Aldehyde

93. Oligosaccharide among the following

(1) Glucose \quad (2) Fructose \quad (3) Cellulose \quad (4) Sucrose

94. Which of the following is used to remove impurities and neutralises sugarcane juice?

(1) CO₂ \quad (2) Ca(OH)₂ \quad (3) SO₂ \quad (4) P₂O₅

95. Denatured spirit if consumed causes

(1) Ulcers in the intestine \quad (2) Damage to lever \quad (3) Blindness \quad (4) Unconsciousness