

# Academic Planning & Test Grid

Olympiad Pattern Part Test (OPT), Olympiad Pattern Cumulative Test (OCT), School Exam Preparatory Pattern Test (SEP), Open Test (OT) Syllabus

Periodic Test Type and No.	PT Date	Test Type	Physics	Chemistry	Mathematics	Biology	Social Science	English	Mental Ability
OPT-1 (2 Hr)	28.04.19	Objective	Units and Measurement (up to some special units)	General Chemistry (up to Modern atomic theory)	Integers	Nutrition in Organisms (up to digestive glands)	Tracing Changes Through A thousand years, Environment	Noun, Reading Comprehension	Playing Alphabets, Trains (number series)
OCT-1 (2 Hr)	19.05.19	Objective	Units and Measurement, Motion and Time (up to distance & displacement)	General Chemistry (up to variable valency)	Integers, Fractions (upto multiplication of Decimals)	Nutrition in Organisms, Weather Climate & Adaptation (up to amphibian adaptation).	Equality in Indian Democracy, New Kings and Kingdoms, Inside our Earth	Noun, Reading Comprehension, Pronoun	Playing Alphabets, Trains (number series, alphabet series, letter repeating series), Magical Figure
SEP-1 (3 Hr)	07.07.19	Subjective (Maths & SST)	NA	NA	Integers, Fractions, Rational Numbers	NA	Tracing Changes Through A Thousand Years Environment, New Kings and Kingdoms, Inside our Earth, Dehn Sultanat, Our Changing Earth, State Government and its Role in Health	NA	NA
SEP-2 (3 Hr)	21.07.19	Subjective (Sc. & Eng)	Units and Measurement, Motion and Time-Heat (Types of Thermometer)	General Chemistry, Fibre to Fabric (Introduction, Types of fibres-Natural fibres, plant fibre - cotton, Jute )	NA	Nutrition in Organisms, Weather Climate & Adaptation, Respiration, Excretion	NA	Noun, Reading Comprehension, Pronoun, Essay Writing, Notice Writing, Adjective, Adverb	NA
OPT-2 (2 Hr)	11.08.19	Objective	Units and Measurement (from scalar and vectors), Motion and Time, Heat	General Chemistry ( from Atomic no. , Fibre to Fabric (upto life history of silk moth)	Fractions, Rational Numbers, Lines and Angles, Triangles	Nutrition in Organisms (Plant nutrition), Weather Climate & Adaptation, Respiration, Transpiration, Forest our life line (up to importance of forest in nature)	The Mughal Empire, Rulers and Builders, Air and Weather & Climate, Gender and The role of women,	Reading Comprehension, Irregular Verbs, Conditionals, Active Passive, Direct and Indirect Speech (comparison)	Trains (alphabet series, letter repeating series), Magical Figure, Operate the Problems, Words in Problems, at the Destination, be regular, Sit down
OCT-2 (2 Hr)	01.09.19	Objective	Units and Measurement, Motion and Time, Heat, Sound (Up to characteristics of wave ill intensity of sound)	General Chemistry, Fibre to Fabric	Integers, Fractions, Rational Numbers, Lines and Angles, Triangles, Exponents	Nutrition in Organisms (Plant nutrition), Weather Climate & Adaptation, Respiration, Transpiration, Forest our life line (up to importance of forest in nature)	The Mughal Empire Rulers and Builders, Air and Weather & Climate, Gender and The role of women,	Reading Comprehension, Irregular Verbs, Conditionals, Active Passive, Direct and Indirect Speech (comparison)	Trains (alphabet series, letter repeating series), Magical Figure, Operate the Problems, Words in Problems, at the Destination, be regular, Sit down
MT-1		Subjective							
OPT-3 (2 Hr)	20.10.19	Objective	Sound Electrical Current and its Effect (Up to Difference between cell and battery)	Acids Bases And Salts (upto Some important bases and their uses)	Congruency of Triangles, Exponents, Algebraic Expressions, Data Handling	Forest our life line, Soil	Water, Media and Advertisement	Subject Verb Agreement, Modals, Phrasal Verb (All)	Magic Mystery, Compare & out, Count down, The time is right (Basic things of cbook)
OCT-3 (2 Hr)	10.11.19	Objective	Units and Measurement, Motion and time, Heat, Sound, Electrical Current and its Effect	Fibre to Fabric, Acids Bases And Salts	Integers, Fractions, Rational Numbers, Lines and Angles, Triangles, Congruency of Triangles, Exponents, Algebraic Expressions, Data Handling, Probability	Nutrition in Organism (digestive system), Respiration (human our life line, Soil, Reproduction (up to vegetative propagation)	Gender and The role of women, Air and Weather & Climate Water, Media & Advertisement	Reading Comprehension, Active - Passive, Modals, Conjunction	Magic Mystery, Compare & out, Count down, The time is right, Figure train
SEP-3 (3 Hr)	24.11.19	Subjective (Maths & SST)	NA	NA	Lines and Angles, Triangles, Congruency of Triangles, Exponents, Algebraic Expressions, Data Handling, Probability, Construction, Symmetry and Visualizing Solid Shapes	NA	Mughal Empire, Rulers and Builders, Air and Weather & Climate, Gender and the role of women, Water, Media and Advertisement, Towns, Traders and Craftspersons, Natural Vegetation and Wildlife	NA	NA
SEP-4 (3 Hr)	08.12.19	Subjective (Sc. & Eng)	Heat (From Units of Heat energy), Sound, Electrical Current, and its Effect, Light (Up to Uses of plane mirror)	Acids Bases And Salts, Physical and Chemical Change ( up to, some common example of physical and chemical changes)	NA	Transpiration (Heart), Forest our life line (Food chain and food web), Soil (composition of soil and layers), Reproduction (up to fertilization events)	Tribes Nomads and Settled Communities, Human Environment and Settlement, Devotional path to divine	Reading Comprehension, Letter Writing, Diary Entry, Direct and Indirect Speech, Preposition	The time is right, Figure train & Figur out, Throw it, Get the image, Mixture (pictures)
OPT-4 (2 Hr)	12.01.20	Objective	Electrical Current and its Effect (From Electric current), Light	Physical and Chemical Changes, Water - A Precious Resource ( upto Anomalous expansion of water, Forms of water, water cycle)	Probability, Construction, Symmetry and Visualizing Solid Shapes, Mensuration, Linear Equation, Ratio & Proportion, Percentage	Reproduction, Food	NA	Reading Comprehension, Direct and Indirect Speech, Preposition, Question Tags	The time is right, Figure train & Figur out, Throw it, Get the image, Mixture
OT-1 (2 Hr)	02.02.20	Objective	Electrical Current, and its Effect, Light, Wind Storm and Cyclone, Universe	Acids Bases And Salts, Physical and Chemical Change, Water - A Precious Resource	Data Handling, Probability, Construction, Symmetry and Visualizing Solid Shapes, Mensuration, Linear Equation, Ratio & Proportion, Percentage, Profit, Loss & Discount, Simple interest	Forest our life line, Soil, Reproduction, Food, Movement in Animals.	NA	NA	The time is right, Figure train & Figur out, Throw it, Get the image, Mixture
OT-2 (2 Hr)	09.02.20	Objective	Units and Measurement, Motion and Time, Heat, Sound, Electrical Current and its Effect, Light, Wind Storm and Cyclone, Universe	General Chemistry, Fibre to fabric, Acids Bases And Salts, Physical and Chemical Change, Water - A Precious Resource	Integers, Fractions, Rational Numbers, Lines and Angles, Triangles, Congruency of Triangles, Exponents, Algebraic Expressions, Data Handling, Probability, Construction, Symmetry and Visualizing solid Shapes, Mensuration, Linear Equation, Ratio & Proportion, Percentage, Profit, Loss & Discount, Simple interest	Nutrition in Organisms, Weather Climate & Adaptation, Respiration, Transpiration, Forest our life line, Soil, Reproduction, Food, Movement in Animals.	NA	NA	Playing Alphabets, Trains, Magical figure, Operate the Problems, Words in Problems, at the Destination, be regular, Sit down, Magic mystery, Compare & out, Count down, The time is right, Figure train & Figur out, Throw it, Get the image, Mixture
MT-2		Subjective							

Major Test Dates: 8th to 21st Sep 2019

Major Test Dates: 10th to 18th Feb 2020

Date of Reshuffling of Batches : 17.06.2019 | 30.09.2019



## REGULAR PROGRAM

Academic Session: 2019-2020

Course Commencement: 01.04.2019 | Course Ends: 18.02.2020



Pre-foundation Career Care Programmes (PCCP) Division

# COURSE PLANNER



Medium: English

**Course Concept:** The Program prepare students for OLYMPIADS & build strong foundation that leads to Excellent performance in Engineering & Medical Examinations along with excellence in school studies.

### TEACHING/LEARNING TOOLS

- Classroom Teaching
- Daily Practice Problems (DPPs)
- Study Material (Sheet/Modules)
- Periodic Tests
- Doubt Classes
- SEP Sheets

### DISCLAIMER

- The Institute reserves the right to increase/decrease the number of lectures allotted to any topic and also make changes in the sequence of the topics in each subject depending upon the course requirements.
- This Course Planner in all respects is applicable only at Kota (Rajasthan) SCs. At other Resonance Study Centers, Students/Parents may find some 'minor' variations to accommodate City specific features/factors.
- The information given in this Course Planner is proposed for Academic Session 2019-20. The institute reserves the right to make changes in it in the interest of students.

### TOTAL ACADEMIC HOURS

- Course Duration: 46 Weeks
- Total Number of Lectures: 464
- Duration of one lecture: 55 minutes
- Total Duration of Classroom Teaching: 425 hrs
- Total Duration of Testing: 54 hrs
- Total Academic Hours: 479 hrs

### HOLIDAYS / VACATIONS

- Resonance Foundation Day: 11<sup>th</sup> April 2019
- Summer Break: 3<sup>rd</sup> to 16<sup>th</sup> June 2019
- Independence Day: 15<sup>th</sup> August, 2019
- Raksha Bandhan: 15<sup>th</sup> August, 2019
- Anant Chaturdashi: 12<sup>th</sup> September, 2019
- Dussehra: 8<sup>th</sup> October, 2019
- Deepawali Holidays: 24<sup>th</sup> to 30<sup>th</sup> October, 2019
- Winter Break: 23<sup>rd</sup> to 31<sup>st</sup> December, 2019
- Makar Sankranti: 14<sup>th</sup> January 2020
- Republic Day: 26<sup>th</sup> January, 2020. (Applicable only at Kota SC and at other SC's Deepawali vacation will be informed to students as per respective SC holiday calendar)

PTSM Schedule: 25<sup>th</sup> May, 2019 | 07<sup>th</sup> September, 2019 | 07<sup>th</sup> December, 2019 | 01<sup>st</sup> February, 2020

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# SUBJECT WISE SYLLABUS PLAN

## MATHEMATICS

S.No.	Topic Name	No. of Classes
1.	Integers	7
2.	Fractions	10
3.	Rational numbers	7
4.	Lines and Angles	8
5.	Triangles	7
6.	Congruency of Triangles	6
7.	Exponents	3
8.	Algebraic Expressions	8
9.	Data Handling	6
10.	Probability	3
11.	Construction	4
12.	Symmetry and visualizing solid shapes	3
13.	Mensuration	9
14.	Linear equation	4
15.	Ratio & Proportion	4
16.	Percentage	4
17.	Profit, Loss & Discount	5
18.	Simple Interest	4
19.	Revision	7
<b>Total</b>		<b>106</b>

## CHEMISTRY

S.No.	Topic Name	No. of Classes
1.	General Chemistry	15
2.	Fibre to Fabric	10
3.	Acids, Bases and Salts	9
4.	Physical and Chemical Changes	9
5.	Water - A Precious Resource	10
<b>Total</b>		<b>53</b>

## SOCIAL SCIENCE

S.No.	Topic Name	No. of Classes
1.	Tracing Changes Through A Thousand Years	2
2.	Environment	2
3.	Equality in Indian Democracy	4
4.	New Kings and Kingdoms	3
5.	Inside our Earth	2
6.	Delhi Sultans	3
7.	Our Changing Earth	2
8.	State Government and its Role in Health	4
9.	The Mughal Empire	4
10.	Rulers and Builders	4
11.	Air and Weather & Climate	3
12.	Gender and the role of women	5
13.	Map work	2
14.	Water	3
15.	Media and Advertisemenmt	4
16.	Towns, Traders and Craftpersons	3
17.	Natural vegetation and wild life	2
18.	Tribes ,nomads and settled communities	3
19.	Human enviornement and settlement	2
20.	Devotional path to divine	3
21.	The Human Enviornment Interaction- TheTropical and subtropical Region	1
22.	The making of regional Culture	3
23.	Market around us	3
24.	Life in Temperate grassland	2
25.	Life in Deserts	2
26.	Eighteenth century Political Formation	2
27.	Map work	2
28.	Revision	2
<b>Total</b>		<b>77</b>

## PHYSICS

S.No.	Topic Name	No. of Classes
1.	Units and Measurements	6
2.	Motion and Time	11
3.	Heat	10
4.	Sound	8
5.	Electrical Current and its Effect	9
6.	Light	13
7.	Winds, Storms and Cyclones	3
8.	Universe	4
<b>Total</b>		<b>64</b>

## ENGLISH

S.No.	Topic Name	No. of Classes
1.	Noun	3
2.	Reading comprehension	1
3.	Pronoun	3
4.	Adjective	3
5.	Adverb	2
6.	Essay Writing, Notice writing, Idioms	2
7.	Article , Report and Speech writing	1
8.	Irregular Verbs	1
9.	Tense	4
10.	Conditionals	2
11.	Active Passive	3
12.	Letter Writing, Application and Diary entry	1
13.	Direct and Indirect speech	3
14.	One word substitution	1
15.	Subject Verb Agreement	3
16.	Modals	2
17.	Phrasal verbs	1
18.	Determiners	3
19.	Conjunctions	2
20.	Preposition	5
21.	Story Writing	1
22.	The Sentence	3
23.	Question Tags, Spoken English Activity	2
24.	Homophones	2
25.	Synonyms and antonyms	3
26.	Revision	9
<b>Total</b>		<b>66</b>

## MENTAL ABILITY

S.No.	Topic Name	No. of Classes
1.	Playing Alphabets	2
2.	Trains	3
3.	Magical figure	1
4.	Operate the problems	2
5.	Words in problem	2
6.	At the destination	1
7.	Be regular	2
8.	Sit down	1
9.	Magic mystery	2
10.	Compare & out	2
11.	Count down	1
12.	The time is right	2
13.	Figure train & Figure out	2
14.	Throw it	1
15.	Get the image	2
16.	Mixture	5
<b>Total</b>		<b>31</b>

## BIOLOGY

S.No.	Topic Name	No. of Classes
1.	Nutrition in organisms	9
2.	Weather, climate and Adaptation	5
3.	Respiration	7
4.	Transportation	9
5.	Forest our life line	6
6.	Soil	5
7.	Reproduction	8
8.	Food	5
9.	Movement in animals	6
<b>Total</b>		<b>60</b>

## School Examination Preparatory (SEP) Sheet: Schedule

S.No.	Solve Date	Check Date	Test Syllabus					
			Physics	Chemistry	Mathematics	Biology	English	Social Science
1	1/4 to 20/4	22/4 to 27/4	Units & Measurements		Integers		Noun, Reading comprehension	
2	22/4 to 18/5	20/5 to 25/5	Motion and Time		fractions and decimals		Pronoun, Adjective	*Tracing Changes Through A thousand years+ Equality In Indian Democracy + Inside our Earth*
3	20/5 to 8/6	24/6 to 29/6			rational number	Nutrition in Organisms	Adverb, Essay & Notice Writing	Environment+New Kings and kingdoms + The Delhi Sultans
4	24/6 to 13/7	22/7 to 27/7		"GENERAL CHEMISTRY"	"lines and angles"	Weather, climate & adaptation	Irregular Verbs	
5	15/7 to 27/7	26/8 to 31/8	Heat		Triangles	Respiration		State Government and its Role in Health + Rulers and Builders
6	29/7 to 10/8	30/9 to 4/10			"Congruency of Triangles"	Transportation	Article, Report and Speech writing	Our Changing Earth + The Mughal Empire + AIR
7	12/8 to 24/8	25/8 to 29/8	Sound	"Fibre to Fabric "	Exponents	Forest our life line	Tense, Active Passive,	
8	26/8 to 9/9	30/9 to 5/10		"Acids, Bases and Salts "	"Algebraic Expressions"	Soil	Letter Writing and Diary entry	Gender & the role of women+WATER
9	9/9 to 19/10	4/11 to 9/11			Statistics		Conditionals,	Media and Advertisement
10	21/10 to 26/10	25/11 to 30/11	"Electrical Current & Its Effect"		Probability	Reproduction	Direct & Indirect speech	Town traders and craft persons
11	28/10 to 2/11	4/11 to 9/11			construction		One word substitution,	Natural vegetation and wild life
12	4/11 to 16/11	25/11 to 30/11	Light		"symmetry & visualizing solid shapes"		Modals, Phrasal verbs	Tribes, Nomads & settled communities
13	18/11 to 7/12	6/1 to 11/1			Mensuration	Food	Subject Verb Agreement,	Human environment and settlement
14	9/12 to 21/12	20/1 to 25/1		Physical & Chemical Changes	linear equation		Story Writing, Determiners	The Tropical and subtropical Region
15	23/12 to 4/1	6/1 to 11/1			"Ratio and Proportion"		Conjunctions, The Sentence	Devotional path to divine + The making of regional Culture
16	6/1 to 18/1	20/1 to 25/1			Percentage		Preposition, Question Tags	Market
17	20/1 to 1/2	10/2 to 15/2	Wind, Storm & Cyclones		"Profit loss discount"	Movement in animals	Homophones,	Life in Temperate grassland + Eighteenth century Political Formation
18	3/2 to 8/2	10/2 to 15/2	Universe	"Water-A Precious Resource"	Simple Interest		Synonyms and antonyms	Life in the Desert