SYLLABUS 2020-21 SCIENCE STD - VIII

Prescribed Text Books:

The living world - A book of Science & Technology (DAV Publication Division)

Reference Book:

Science Exemplar Problems - NCERT

EXAMINATION SYSTEM (2020-21)

Exam	Time Period Of The Test	Syllabus For The Test	Marks
PA-1	20 th July to 25 th July 2020	Syllabus for PA-1	40
PA-2/ HALF YEARLY	19 th Sept to 28 th Sept 2020	Syllabus for PA-2/ HALF YEARLY	80
PA-3	1st December to 7 th December 2020	Syllabus for PA-3	40
Annual	As per the DAV Board	Whole syllabus	80
Exam.	Schedule (3rd week of February)		

ASSESSMENT STRUCTURE

80 Marks Annual Exam		20 Marks Internal Asses	sment
Written test	Periodic Assessment (10marks)	C.W &H.W (5 Marks)	Subject Enrichment Activity/Project – (5 Marks)
	Three written tests will be conducted. Average of best two tests will be taken for final marking.	 Regularity. (1 Mark) Maintenance of copy with index. (1 Mark) Writing relevant answers. (1 Mark) Follow up action. (1 Mark) Task completion (1 Mark) 	Individual /pair/group wise experimental activity/project suggested below

SYLLABUS

Sl. No.	Name of the Chapters	Periodic Assessment- 1 (40 Mark) Time:1hr 30mins (20 th July to 25 th July, 2020)	Periodic Assessment- 2/Half yearly (80 Mark) Time 3 Hrs (19 th Sept to 28 th Sept 2020)	Periodic Assessment- 3 (40 Marks) Time :1hr 30 mins (1st December to 7th December 2020)	Annual (80 Marks) Time : 3 Hours As per the DAV Board Schedule (3rd week of February)
1	Ch-1 The Cell: Its Structure and Function			✓	√
2	Ch-2. Microorganisms : Friends or Foes		✓		✓
3	Ch- 3 Metals and Non- metals			√	✓
4	Ch- 4 Force and Pressure	√	√		✓
5	Ch -5 Friction		✓		✓
6	Ch- 6. Sources of energy		✓		✓
7	Ch- 7. Combustion	√	✓		√
8	Ch -8. Conservation of Plants and Animals		√		√
9	Ch- 9. Crop Production & its Management	√	✓		✓
10	Ch-10 Refraction and Dispersion of Light			✓	√
11	Ch 11- The Human Eye				✓
12	Ch12- Sound				✓
13	Ch 13- Synthetic Fibres and Plastics				✓
14	Ch 14- Reproduction in Animals				✓
15	Ch 15- Reaching the Age of Adolescence				✓

16	Ch16. Electric		✓		✓
	Current and				
	its Chemical				
	Effects				
17	Ch 17 -Stars and				✓
	Solar System				
18	Ch 18.		✓		✓
	Earthquakes				
19	Ch- 19. Pollution		✓		✓
	of Air				
20	Ch 20- Pollution				✓
	of Water				
	TOTAL MARK	40	80	40	80

SUBJECT ENRICHMENT:

(I) Individual /pair/group wise experimental activity) -5 marks.

- 1. To show liquid pressure increases with depth.
- 2. To show liquid pressure is transmitted equally in all directions.
- 3. To show force of friction increases with increase in the weight of the body.
- 4. To differentiate between good and poor conductors from different liquid samples.
- 5. To show wax vapours are present in the inner most zone of candle flame.
- 6. To show that luminous zone of the candle flame contains un burnt particles of carbon.
- 7. To observe refraction of light through a rectangular glass slab.
- 8. To show that metallic oxides are basic in nature.
- 9. To observe the refraction of light through prism.
- 10. To show that metals react with an acid to liberate hydrogen gas.
- 11. To show the displacement reaction using suitable chemicals.
- 12. To observe presence of atmospheric pressure with suitable activity.

Rubrics:

Individual / Group experimental activity (5 Marks)

- Understanding the concept. (1 Mark)
- Experimental setup and proper technique. (1 Mark)
- Collection of data and observation correctly (1 Mark)
- Work with precision, neatness and accuracy (1 Mark)
- Relating with theoretical knowledge through viva (1 mark)

(II) Project work:

(Group activity, PPT)

To make a PPT on any one of the following-

- 1. Wildlife sanctuary of India
- 2. National parks of India
- 3. Biosphere reserve of India
- 4. Endemic species.
- 5. Extinct species.

Rubrics:

- Content(1mark)
- Slide creation(1mark)
- Pictures, clip art & Back ground(1mark)
- Presentation(1mark)
- Viva (1 mark)

OR

3

Model making

To make a 3-D model on any one of the following.

- 1. Plant cell
- 2. Animal cell
- 3. Bacterial cell
- 4. Amoeba
- 5. Paramecium
- 6. Bread mould

Rubrics

- Depth of Knowledge(1 mark)
- Creativity(1 mark)
- Cost effectiveness. (1 mark)
- Presentation (1 mark)
- Viva (1 mark)

Weightage to form of questions:

Periodic Assessment- I & Periodic Assessment- III

Duration 1hr 30 min

Sl. No.	Form of Questions	VSA	Short Answer Type (SA I)	Short Answer Type (SA II)	Long Answer type (LA)
1	Marks for each question.	1	2	3	5
2	No. of Questions	1	3	6	3
3	Total Marks	1 x 1 = 1	3 x 2 = 6	6 x 3 = 18	3 x 5 = 15
	TOTAL- 40 marks				

Periodic Assessment- II

Duration · 3 hrs

Form of Questions	VSA	Short Answer Type (SA I)	Short Answer Type (SA II)	type (LA)
Marks for each question.	1	2	3	5
No. of Questions	3	7	11	6
Total Marks	3 x 1 = 3	7 x 2 = 14	11x 3 =33	6 x 5 = 30
	Questions Marks for each question. No. of Questions	Questions Marks for 1 each question. No. of 3 Questions	Questions Type (SA I) Marks for 1 2 each question. No. of 3 7 Questions	QuestionsType (SA I)Type (SA II)Marks for each question.23No. of Questions3711

Important Note:

- HOTS questions will be set in all the Examinations.
- Some questions may be asked from Science Exemplar Problems (NCERT) in all the Examinations.

N.B: Weightage to form of questions for Annual examination will be as per the latest guidelines of DAV Education Board.

MARKS DISTRIBUTION

Periodic Assessment-II & Periodic Assessment-III (40 Marks) TIME: 1hr 30min Periodic Assessment-II & Annual (80 Marks) TIME: 3hrs

SI	Name of the Chapter	Periodic	Periodic	Periodic	Annual
No.		Assessment - 1	Assessment-2/	Assessment3	(80 Marks)
		(40 Mark)	Half yearly	(40 Marks)	Time: 3 Hours
		Time:1hr30min	(80 Mark)	Time:1hr 30min (1 st December	As per the DAV
		(20th July to 25 th July,	Time: 3hrs(19 th September to	to 7 th December,	Board Schedule
		2020)	28 th	2020)	(3rd week of
		2020,	September,		February)
			2020)		, ,
1	Ch-1 The Cell: Its Structure			13	5
	and Function(8 Periods)				
2	Ch-2 Microorganisms:		10		4
	Friends or Foes				
	(13 Periods)			1.0	,
3	Ch-3 Metals and Non-			13	6
	metals				
4	(15 Periods) Ch-4 Force and Pressure	14	8		4
4	(10 Periods)	14			'
5	Ch-5 Friction (9 Periods)		7		4
6	Ch-6 Sources of energy		10		3
	(10 Periods)				
7	Ch- 7 Combustion	13	10		6
	(13 Periods)				
8	Ch-8 Conservation of		8		3
	Plants and Animals				
	(10 Periods)				
9	Ch-9 Crop Production & its	13	7		3
	Management				
10	(12 Periods)			4.4	
10	Ch-10 Refraction and			14	5
	Dispersion of Light (13 Periods)				
11	Ch-11 The Human Eye				3
	(8 Periods)				_
12	Ch-12 Sound (13 Periods)				3
13	Ch-13 Synthetic Fibres and				4
	Plastics (10 Periods)				
14	Ch-14 Reproduction in				5
	Animals (11 Periods)				
15	Ch-15 Reaching the Age				5
	of Adolescence (8				
	Periods)				_
16	Ch-16 Electric current and		10		5
	its chemical effects				
17	(13 Periods)				2
17	Ch-17 Stars				3

	and Solar System (9 periods)				
18	Ch-18 Earthquakes		5		3
	(5 Periods)				
19	Ch- 19 Pollution of Air		5		3
	(7 Periods)				
20	Ch-20 Pollution of Water				3
	(7 Periods)				
	TOTAL MARKS	40	80	40	80

A. Weightage to content/ subject units

Weightage to form of questions:

Periodic Assessment- I & Periodic Assessment- III

Duration 1hr 30min

Sl. No.	Form of Questions	VSA	Short Answer Type (SA I)	Short Answer Type (SA II)	Long Answer type (LA)
1	Marks for each question	1	2	3	5
2	No. of Questions	1	3	6	3
3	Total Marks	1 x 1 = 1	3 x 2 = 6	6 x 3 = 18	3 x 5 = 15
Total- 40 marks					

Periodic Assessment-II

Duration: 3 hrs

Sl. No.	Form of Questions	VSA	Short Answer Type (SA I)	Short Answer Type (SA II)	Long Answer type (LA)
1	Marks for each question	1	2	3	5
2	No. of Questions	3	7	11	6
3	Total Marks	3 x 1 = 3	7 x 2 = 14	11x 3 =33	6 x 5 = 30
TOTAL: 80 Marks					

SCHEME OF OPTIONS:

- > There will be no internal choice for the questions of PA I and PA III.
- There will be no choice overall. However, there would be an internal choice in three questions of 2 marks each and in three questions of 3 marks each and in three questions of 5 marks each for PA II and Annual..
- ➤ Important Note: HOTs questions will be set in all the Examinations.
- B. Difficulty level of questions for all examinations:

SI. No	Objective	Percentage of marks
1	easy	25%
2	average	60%
3	difficult	15%

C. Weightage to different thinking skills:

Sl. No.	Thinking skill	% Weightage
1.	Knowledge	25 %
2.	Understanding	50 %
3.	Application	25 %
4.	Total	100 %

Month wise Chapter distribution.

Month	Physics	Chemistry	Biology
April	Ch-4 Force & pressure	Ch 7 Combustion	Ch-9- Crop production &
			its management
June	Ch-4Force & pressure	Ch 7 - Combustion	Ch-9- Crop production &
			its management
July	Ch 5- Friction	Ch 6- Sources of energy	Ch-2- Micro-Organisms:
			friends or foes
August	Ch16- Electric current	Ch 19- Pollution of Air	Ch-8- Conservation of
	and its effects		plants & animals
Septembe	Ch 18- Earthquake	Revision- HALF YEARLY	Revision - HALF YEARLY
r	Revision - HALF	Exam	Exam
	YEARLY Exam		
October	Ch 10 - Refraction and	Ch 3- Metals and Non-	Ch-1- The cell -Its
	Dispersion of Light	metals	structure & functions
November	Ch 10 - Refraction and	Ch 3- Metals and Non-	Ch-1- The cell -Its
	Dispersion of Light	metals	structure & functions
			Ch-14- Reproduction in
			animals.
December	Ch 11- The Human Eye	Ch 13- Synthetic Fibres	Ch-14- Reproduction in
	Ch12 - Sound	and Plastics	animals.
January	Ch12- Sound	Ch 20- Pollution of	Ch 15 Reaching the age of
	Ch 17- Stars and Solar	Water	Adolescence
	System		
February	Revision for board	Revision for board Exam	Revision for board Exam
	Exam		

Full	signature of tea	chers :	
			Signature of Principal :