ANNEXURE -A

DAV PUBLIC SCHOOLS, ODISHA, ZONE							
	HALF YEARLY EXAMINATION: 2023-24 CLASS :VI , SUBJECT :SCIENCE AND TECHNOLOGY						
	BLUE PRINT OF QUESTION PAPER						
Sl No.	Chapters / units	Marks Allotted in Syllabus	LA (Nos)	SA-II (Nos.)	SA-I (Nos.)	VSA (Nos.)	TOTAL (NOS.)
1	Chapter 1	9	-	1	1	3+ 1 (A/R)	6
2	Chapter 2	9	1			Case based (4*1)	2
3	Chapter 3	6		1	1	1(A/R)	3
4	Chapter 4	15	1	1		Case based (4*1), 1,1,1	6
5	Chapter 5	10		1	2	3	6
6	Chapter 7	16	1	1	3	2	7
7	Chapter 12	15	1	1	2	3	7
MARKS		80	5*4= 20	3*6= 18	2*9=18	1*14=14 1*2=2 4*2=8	37

Remembering and understanding 50% = 40 marks Application and analysis 40% = 32 marks Hots 10% = 8 marks Total= 80 marks

ANNEXURE -B

DAV PUBLIC SCHOOLS, ODISHA, ZONE HALF YEARLY EXAMINATION: 2023-24 CLASS : VI

SUBJECT :SCIENCE AND TECHNOLOGY

QUESTIONWISE ANALYSIS

SI No.	Chapters / units	Forms of Question - (LA, SA-II, SA-I,	Marks Allotted	(R), (U), (A), (H),
		VSA)		(E)
1	CH -1- OUR	SA-II, SA-I,	9	(A),(E),(R,
	ENVIRONMENT	VSA(WITH A/R)	(3,2,1(4))	R, R, ,H)
2	CH-2- FOOD	LA,VSA(CASE	9	(A),(U)
		BASED)	(5,4)	
3	CH- NATURE OF	SAII, SA-I,	6(3,2,1)	(U),(U),H
	MATTER	VSA(A/R)		
4	CH- 4 – SEPARATION	LA, SAII,	15	(U), A, ,A,
	OF SUBSTANCES	VSA+CASE BASED	(5, 3, 4, 1, 1, 1)	R, U,H
5	CH -5- CHANGES	SAII, SAI, VSA	10	U,H, U,
	AROUND US		(3,2,2,1,1,1)	A,R, H
6	CH-7 – THE WORLD OF	LA, SA-II, SA-I,VSA	16	U, A, R,A,
	LIVING		(5,3,2x3, 1x2	A, R.
7	CH-12- LIGHT AND	LA, ,SA-II, SA-I(2),	15	A, A/U, U,
	SHADOW	VSA(3)	(5,3,2x2,1x3)	R, R, R , H

ANNEXURE -C DAV PUBLIC SCHOOLS, ODISHA, ZONE HALF YEARLY EXAMINATION: 2023-24 CLASS: VI , SUBJECT :SCIENCE AND TECHNOLOGY MARKING SCHEME

QSTN NO	Value Points	Marks Allotted	PAGE NO. OF NCERT /TEXT BOOK
1	Drooping of leaves of mimosa plant, movement of the shoot tip towards light, earthworm tendency to move away from light, animals moving away from	1	106
2	When a ray of light fall on an opaque object, the light reflect back to the same medium is called reflection.	1	195
3	Physical and reversible	1/2+1/2	73,74
4	Amoeba, yeast(any relevant example)	1/2+1/2	107
5	Physical change/ irreversible	1	74
6	(a) Energy absorbed	1	77
7	Rainwater harvesting	1	5
8	autotrophs	1	8
9	luminous	1	188
10	Glass	1	189
11	Decomposers break down the dead bodies and enrich the soil with minerals.(clean the environment)	1	3
12	Loading	1	57
13	Gravel, sand	$\frac{1}{2} + \frac{1}{2}$	61
14	Sublimationmagnetic separation	1/2+1/2	54,55
15	a) both A and R are true and R is the correct explanation of A.	1	35
16	b) both A and R are true but R is not the correct explanation of A	1	7
17	(I)(c) Vitamin D(II)(a) Vitamin B(III)(d) sterility(IV)(b) Vitamin C	1+1+1+1	20
18	 (I) (d) Crystallisation (II) (b) hand picking (III) (c) Evaporation (IV) (d) Both threshing and winnowing 	1+1+1+1	49 to 60
19	Black in colour don't have efficient sweat gland OR Morning glory bloom out at sunrise and closed down after sunset.	$\frac{1}{2} + \frac{1}{2} + 1$	8
	Animals like rat ,cockroaches and owls are active during night.		7
20	Curd cannot comes back to milk again .Milk changes to curd which is a new substance having different properties	1+1	72
21	 a) Permanent/ chemical/irreversible change b) Milk to cheese, cooking of food or any relevant answer of chemical and irreversible permanent change. (any one) 	1 + 1	75
22	Mesophytes are plants that need moderate amount of water for their survival. Hydrophytes are plants found in water which need more amount of water for their survival.	1+1	112

		OR		
	Shrubs are the plants which atta	ain 3m height and have non-woody		
	hard stem. Trees attain several			
	woody stem			
23	a) X- carbon dioxide	¹ /2+ ¹ /2+1	43	
	Y- oxygen			
	b) The solubility of gas decrea			
24	water		1.1	100
24	a) Lateral inversion	a din a	1+1	196
25	b) ex, - ambulance and secret c Carrot and radish survive for tw	1+1	110	
23	vegetative growth, in the secon	1+1	110	
	flowers.			
26	• image is colourful; shadov	1+1	197	
	• image cannot be obtained			
	e	y other appropriate answer)		
27	Frugivores – animals who eats		1+1	115
	Insectivores – animals eats on i			
	examples			
28		nation of formation of shadow, i.e.		
	when sun moon and earth happ	-		102
	coming in between sun and the		2+1	193
	Diagram of lunar eclipse, Sun	OR moon & Farth happen to be in		
	straight line with earth coming			
29	In solids particles are very	1+1+1	36	
	are very loosely packed.			
	• Inter- molecular space is le			
	gases.			
	• Inter-molecular force of at			
	minimum in gases.			
30				116
	ANI			
	Vertebrates	Invertebrates		
	1. They have a backbone,	They do not have a		
	which made up of several small ring-like bones,backbone.			
	called vertebrae.			
	2. These animals are well-	These animals have a soft		
	developed and have a bony body. skeleton.		1+1+1	
	3. The examples are	The examples are :		
	Human beings	Earthworm		
	Fist	Cockroach		
	FrogSnailLizardOctopus			115
	Birds			
	Animals reproduce by laying e			
21	by giving birth to young ones(r			61
31	It is a method used to separate liquid by rotating the mixture a	1+1+1	61	
	dairies and at homes to churn o	1+1+1		
	surres and at nonics to chaffi 0			1

	centrifugation the heavier particle tend to settle down at the		
	bottom of the container while the lighter one stays at the top. Thus		
	butter being lighter floats at the top.		
32	Rusting of iron, formation of day and night, ripening of fruits,	1+1+1/2+1/2	72
	growing of trees are slow changes. The changes which take place		
	in a short period of time are called fast changes. Example:		
	Burning of paper, stretching of a rubber band, blowing of		
	balloons, bursting of crackers are fast changes.		
33	1.Not using plastic, segregation of biodegradable and non	1+1+1	4, 5
	biodegradable waste before disposing into the environment,		
	making compost /vermicompost from these substances any		
	relevant answers		
	OR	2	
	Schematic diagram	3	11
34	a) Mixing of more then one substance together in any ratio	1+2+2	51,52
	b) Air- nitrogen, hydrogen, oxygen argon		
	Crude oil (patrol, kerosene, diesel)		
	c) Homogeneous mixture – same composition through out it,		
	different parts cannot be distinguished from each other.		
	Components are uniformly distributed		
	Heterogeneous – doesn't have same composition, different parts		
	can be distinguished from each other		
35	Components are not uniformly distributeda) Pigeon chest , as the chest protrudes out due to weakening	1+1 +	24
55	a) Figeon cless , as the cless produces out due to weakening of ribs.	1+1+1	24
	b) Rickets	1+	
	c) Bowed legs, knocknees, Bones become weak	1/2 + 1/2	
	d) Vitamin D, Milk(any other relevant source)	1/2 +1/2	
36	a) Xerophyte	1	76
50	b) Root	1	
	c) C is thin and spiny leaves helps to minimise water loss	1	
	d) Cacti, Babool (any other relevant example)	1/2+1/2	
	e) Xerophyte need very small amount of water	1	
37	Reference activity 1 page no 189	2+3	189, 192
- •	OR	-	
	Reference activity 2 page no 192		