ANNEXURE -A

DAV PUBLIC SCHOOLS, ODISHA, ZONE							
HALF YEARLY EXAMINATION: 2023-24 CLASS :VI , SUBJECT :SCIENCE AND TECHNOLOGY							
BLUE PRINT OF OUESTION 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 -	Marks	(R), (U),
		(LA , SA-II, SA-I,	Allotted	(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	 (II) (d) Sternity (e) (think c (II) (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. Animals like rat .cockroaches and owls are active during night.	$\frac{1}{2} + \frac{1}{2} + 1$	8
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			
	hard stem. Trees attain several			
	woody stem	c c		
23	a) X- carbon dioxide		1/2+1/2+1	43
	Y- oxygen			
	b) The solubility of gas decrea			
	water			
24	a) Lateral inversion		1+1	196
	b) ex, - ambulance and secret c	oding		
25	Carrot and radish survive for two season, in one season they have		1+1	110
	vegetative growth, in the secon			
26	flowers.			107
26	• image is colourful; shadov	v is black.	1+1	197
	• image cannot be obtained	on a screen; a shadow is always		
	obtained on a screen. (An	y other appropriate answer)		
27	Frugivores – animals who eats	fruits only. Ex – parrot	1+1	115
	Insectivores – animals eats on i	nsects, ex- lizard, any relevant		
20	examples			
28	Diagram of solar eclipse, expla	nation of formation of shadow, i.e.		
	when sun moon and earth happ	en to be in straight line, moon		102
	coming in between sun and the		2+1	195
	Diagram of lunar eclipse. Sun 1	$\mathbf{O}\mathbf{N}$		
	straight line with earth coming	in between sun and the moon		
29	In solids particles are very	1+1+1	36	
_>	are very loosely packed.		00	
	• Inter- molecular space is lo			
	 gases. Inter-molecular force of attraction is maximum in solids and 			
	minimum in gases.			
30				116
	ANI	MALS		
	Vertebrates	Invertebrates		
	1 They have a backbone	They do not have a		
	which made up of several	backbone		
	small ring-like bones.			
	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		
	Frog	Snail		115
	Lizard	Octopus		
	Birds Star fish			
	OR			
	Animals reproduce by laying e			
31	by giving birth to young ones(relevant examples in each case)			
51	liquid by rotating the mixture a	1+1-1	01	
	dairies and at homes to churn of	ut butter from cream In	1 + 1 + 1	
				1

	centrifugation the heavier particle tend to settle down at the bottom of the container while the lighter one stays at the top. Thus		
22	butter being lighter floats at the top.	1 . 1 . 1/0 . 1/0	70
32	Rusting of iron, formation of day and night, ripening of fruits,	1+1+1/2+1/2	12
	in a short paried of time are called fast changes. Example:		
	Burning of paper, stratching of a rubbar hand blowing of		
	balloons bursting of crackers are fast changes		
33	1 Not using plastic segregation of biodegradable and non	1+1+1	4 5
55	biodegradable waste before disposing into the environment	1.1.1	1, 5
	making compost /vermicompost from these substances any		
	relevant answers		
	OR		
	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		
	Components are not uniformly distributed		
35	a) Pigeon chest, as the chest protrudes out due to weakening	1+1 +	24
	of ribs.	1+	
	b) Rickets	1+	
	c) Bowed legs, knocknees, Bones become weak	1/2 +1/2	
	d) Vitamin D, Milk(any other relevant source)		
36	a) Xerophyte	1	76
	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	
27	e) Xerophyte need very small amount of water	1	100,100
31	Reference activity I page no 189	2+3	189, 192
	Reference activity 2 page no 192		