## ANSWER KEY Physical Education (Session 2022-23)

Q.NO.	ANSWER	MARKS		
2		DISTRIBUTION		
	(SECTION A)			
1.	d) Dhanurasana For visually impaired c) Vajrasana	1		
2.	d) Openness	1		
3.	b) Dynamic Equilibrium	1		
4.	b) Red	1		
5.	b) Iso-tonic	1		
6.	a) Explosive strength	1		
7.	a) Oxygen Uptake	1		
8.	b) Mass	1		
9.	a) Both (A) and ® are true and ® is the correct explanation of (A).			
10.	a) Simple	1		
11.	b) Magnesium	1		
12.	b) Tadasana	1		
13.	c) 15	1		
14.	b) 7	1		
15.	i. d) social			
16.	a) I-3,II-4,III-1,IV-2	1		
17.	a) I-1,II-3,III-4,IV-2	1		
18.	c) Osteoporosis	1		
	(SECTION B)	I		

10			
19.	Effect of Exercises on Muscular		2
	System		
	Short Term Long term		
	Increased Hypertrophy blood supply of Muscle		
	Increased muscle		
	temperature ligaments and tendons		
	flexibility size and number of mitochondria		
	Accumulation of Lactate storage		
	Micro tears in glycogen		
	muscle fibers storage		
	oxidation/ metabolism		
	Increase in lactate acid tolerance		
20.	Benefits of self talk		2
	<ol> <li>Building and dev</li> <li>Skill acquisition</li> </ol>	eloping self efficacy	
	<ol><li>Creating and ch</li></ol>		
	<ol> <li>Controlling effor</li> <li>Focusing attenti</li> </ol>		
21.	Advantages	Disadvantages	2
	Develops strength and	•Many exercises require specialized equipment - e.g. gym equipment	
	<ul> <li>Appropriate form of training for most sports</li> </ul>	Ample space required to set up the circuit exercises & equipment	
	<ul> <li>Can be adjusted to suit age, fitness and health of the athlete</li> </ul>	<ul> <li>In general can only be conducted where appropriate facilities/equipment are available</li> </ul>	
	<ul> <li>Exercises are simple enough to make each athlete feel a sense of achievement in completing</li> </ul>	<ul> <li>Use of additional equipment requires appropriate health and safety monitoring</li> </ul>	
	<ul> <li>A wide range of exercises to select from which will maintain the athlete's enthusiasm</li> </ul>		
	Can be done in the group		
22.	A soft tissue injury is the dam	age of muscles, ligaments and tendons throughout the body.	2
		Type of soft tissue injuries	
	t t		
	Abrasion Contusion	Laceration Strain Sprain Incision	



	Immunity Gerrificates Mildafo	Fit mess Fit mess Atimula Atimula Troup Behavinur on flicts	
26.	Carbohydrates are and Oxygen. Carbo Carbohydrates. <b>monosaccharide</b> , <b>disaccharides</b> and <i>Simple sugars</i> (mo disaccharides) are (lactose) and swee that are produced spoilage, or improve structure Polysaccharides ar together. These ar Starches and fibre are found in whole	3	
27.	grain cereals, rice, The position of a p opponent, usually without playing. The right to proceed contesting the press opponent. <b>Allotment of byes</b> First bye will be give Second by will be give Third bye will be give Fourth bye will be give Same pattern will be have been given.,	3	
28.	Trait Openness Conactentiousness Extraversion Agreeableness Neurotichem	Description Being curious, original, intellectual, creative, and open to new ideas. Boing organized, systematic, punctual, achievement- oriented, and dependable. Being outgoing, talkative, sociable, and enjoying social situations. Being affable, tolerant, sensitive, trusting, kind, and warm. Being anxious, irritable, temperamental, and moody.	3



32.	a)	Third law of motion-Action reaction	4
	b)	1 <sup>st</sup> picture	
	c)	Law of Acceleration	
	d)	Kinesiology	
		Third law of motion-Action reaction	
		For visually impaired students	
		Guiding Principles to Determine the Degree of Stability	
		<ol> <li>Broader the base, the greater the stability: Broadening the base of support helps an athlete to achieve greater stability. eg., while standing spreading the feet in the direction of movement provide stability. Where a stance is required, using both hands and feet creates the widest base.</li> </ol>	
		<ol> <li>Body weight is directly proportional to stability: The athlete or an object which weighs more will have greater stability. eg., it is difficult to move a heavier person than a lighter one, Combative sports like, judo, wrestling, taekwondo, and boxing are played according to the bodyweight principle.</li> </ol>	
		3. Lower the Centre of gravity, higher the stability: When a player does an activity that needs stability, the player usually lowers their centre of gravity by bending. eg., when a player bends his knees while running, he can stop sooner and more efficiently. Similarly, a wrestler half sits to maintain his stability. Even a shot-put thrower bends his knees in the end so that he may avoid a foul.	
		4. The nearer the centre of gravity to the centre of the base of support the more will be the stability: If the centre of gravity extends beyond the base of support, balance is lost. Keeping the body's weight centred over the base will support and help maintain stability. eg., when a gymnast walks on a balance beam one requires a small base of support. During the performance, if the balance is lost the gymnast raises the arm or legs on the opposite sides to shift the centre of gravity back towards the base of support.	
		5. Direction of acting force: During a competition, if the direction of an acting/ applied force is known, stability can be increased by moving the line of gravity as close as possible to the edge of the base where the force is expected. eg., when in a judo match the judoka shifts his foot in the line of direction of the force applied by the opponent to use the force of the opponent as a counterforce to throw him down.	
33.	<ul> <li>a. The mission of Special Olympics is to provide year-round sports trai and athletic competition in a variety of Olympic-type sports for childr and adults with intellectual disabilities, giving them continuing opportunities to develop physical fitness, demonstrate courage, experience joy and participate in events</li> <li>b. "Let me win. But if I cannot win, let me be brave in the attempt."</li> <li>c. International Games for the Deaf International Silent Games"</li> <li>d. 4yrs</li> </ul>		4

## For visually impaired students

## 4.1.1 PARALYMPICS

Paralympics is a mega sports event involving athletes with a range of disabilities, and is organized by the International Paralympic Committee. The range of disabilities includes impaired muscle power (eg., paraplegia and quadriplegia, muscular dystrophy, post-polio syndrome, spina bifida), impaired passive range of movement, limb deficiency (eg., amputation or dysmelia), leg length difference, short stature, hypertonia, ataxia, athetosis, vision impairment and intellectual impairment. These disabilities are further divided into classifications which vary from sport to sport. The word Paralympics is derived from the Greek word para which means beside or alongside and Olympic. Combined, Paralympics means an international Games competition that is parallel to the Olympics. Thus, the word Paralympics refers to "a series of international contests for athletes with disabilities that are associated with and held following the summer and winter Olympic Games." There are Winter and Summer Paralympic Games, which since the 1988 Summer Games in Seoul, South Korea, are held almost immediately following the respective Olympic Games. All Paralympic Games are governed by the International Paralympic Committee (IPC).



International Paralympic Committee (IPC) was formed on 22 September 1989 and is situated in Germany. IPC organizes Summer and Winter Paralympic Games and coordinates world championships and other competitions. The vision of IPC is 'To enable Para athletes to achieve sporting excellence and inspire and excite the world.'

The purpose of the criteria

h Defining the impairment group in which an athlete can compete in the various sports.

h Grouping athletes in classes defined by the degree of activity-limitation related to the impairment and/or specific to the task in the sport.

The IPC has established ten disability categories, including physical, visual, and intellectual impairment. Athletes with one of these disabilities can compete in the Paralympics though not every sport can allow for every disability category. These categories apply to both Summer and Winter Paralympics.

1. Physical Impairment – There are eight different types of physical impairment: h Impaired muscle power – With impairments in this category, the force generated by muscles, such as the muscles of one limb, one side of the body or the lower half of the body is reduced. eg., spinal cord injury, spina bifida, postpolio syndrome.

h Impaired passive range of movement – The range of movement in one or more joints is reduced in a systematic way. Acute conditions such as arthritis are not included in this category.

h Loss of limb or limb deficiency – A total or partial absence of bones or joints from partial or total loss due to illness, trauma, or congenital limb deficiency. eg., amputation, dysmelia.

h Leg-length difference – Significant bone shortening occurs in one leg due to congenital deficiency or trauma.Short stature – Standing height is reduced due to shortened legs, arms and trunk, which are due to a Musculo-skeletal deficit of bone or cartilage structures. eg., achondroplasia, growth hormone deficiency,



