

Central Board of Secondary Education, Delhi

SAMPLE QUESTION PAPER CLASS-XII (2023-2024)

PHYSICAL EDUCATION (048)

Time Allowed: 3hrs Max. Marks:70

GENERAL INSTRUCTIONS:

- 1) The question paper consists of 5 sections and 34 Questions.
- 2) Section A consists of question 1-18 carrying 1 mark each and is multiple choice questions. All questions are compulsory.
- 3) Sections B consist of questions 19-23 carrying 2 marks each and are very short answer types and should not exceed 60-90 words. There is internal choice available.
- 4) Sections C consist of Question 24-28 carrying 3 marks each and are short answer types and should not exceed 100-150 words. There is internal choice available
- 5) Sections D consist of Question 29-31 carrying 4 marks each and are case studies. There is internal choice available.
- 6) Section E consists of Question 32-34 carrying 5 marks each and are short answer types and should not exceed 200-300 words. There is internal choice available.

SECTION - A

1 mark each

Q1. Identify the Asana:



(a) Pawanmuktasa (c) Chakrasan	ana	(b) Sukhasa (d) Gomukh	
Q2. Reactive Agg (a) Instrumental A (c) Assertive Agg		(b) Hostile Aggress (d) Both (a) and (b)	
-	force acts in a/an	di	rection to the direction of motion of
an object.(a) Opposite	(b) Same	(c) Downwards	(d) Diagonal
Q4. The irregula (a) Laceration	r tear-like wounds ca (b) Contusion	used by some blunt tra (c) Abrasion	numa(d) Incision

Q5. Given below are two statements, one of which is labelled as Assertion (A) and the other is labelled as Reason (R)

Assertion (A): For improvement of performance in long distance running, continuous training is effective

Reason (R): Continuous method of training improves basic endurance

Which one of the following statements is correct?

- (a) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (b) Both (A) and (R) are true but(R) is not the correct explanation of (A)
- (c) (A) is true, but (R) is false
- (d) (A) is false, but (R) is true

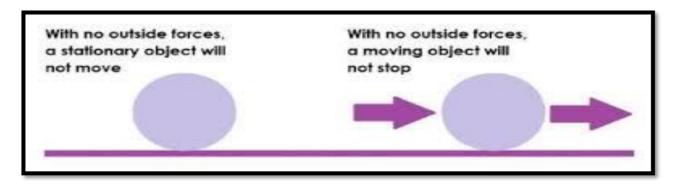
Q6. What do you mean by iso and metric?

- (a) Iso means constant and metric means length
- (b) Iso means change and metric means size
- (c) Iso means constant and metric means velocity
- (d) Iso means size and metric means constant

Q7. It is the amount of blood pumped out by each side of the heart (actually each ventricle) in 1 minute_____

- a) Blood pressure
- (b) Cardiac Output
- (c) Blood volume
- (d) Both (a) and (b)

Q8. Identify the given below



- (a) First Law of Motion
- (b) Second Law of Motion
- (c) Third Law of Motion
- (d) Law of Effects

Q9. Match List – I with List – II and select the correct answer from the code given below:

LIST - II		LIST - II	
1	Extraversion	i)	Enthusiasm
2	Conscientiousness	ii)	Responsible
3	Agreeableness	iii)	Compassionate behavior
4	Neuroticism	iv)	Emotional Stability

Code				
	i	ii	iii	iv
(a)	1	2	3	4
(b)	4	3	2	1
(c)	3	4	2	1
(d)	2	3	4	1

Q10. Given below are two statements, one of which is labelled as Assertion (A) and the other is labeled as Reason (R)

Assertion: Scurvy is caused due to the deficiency of Vitamin C.

Reason: The disease sets in when the diet does not include fresh vegetables and fruits for a long time.

Which one of the following statements is correct?

- (a) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (b) Both (A) and (R) are true but(R) is not the correct explanation of (A)
- (c) (A) is true, but (R) is false
- (d) (A) is false, but (R) is true

Q11. One gram of carbohydrate contains _____ Calories

- (a) 2
- (b) 3
- (c) 4
- (d) 5

Q12. Which gland is associated with Diabetes?

- (a) Endocrine glands
- (b) Pituitary
- (c) Pancreas
- (d) Hypothalamus

Q13. What is the formula to determine number of matches in League fixture for even number of teams?

- (a) N+1/2
- (b) N-1/2
- (c) N (N-1)/2
- (d) N (N+1)/2

Q14. Mr. Gopi, Physical Education Teacher of a reputed CBSE school has decided to conduct an Inter School Kabaddi tournament in his school premises after proper drawing of fixtures. He consulted the Management and the Principal to conduct the Tournament of Inter School Kabaddi pattern but the Physical Education Teacher was not aware of Inter School Kabaddi Tournament. So he discussed with the National Kabaddi Referee Association.

Which of the following is the best method to organize this kind of tournament?

- (a) Knock out
- (b) League
- (c) Ladder
- (d) Pyramid

Q15. School management needs to recognize the essential place of physical activity in the education of children with special needs.

Which of these is not one of the results of physical activities in children with special needs?

(a) Improvement in confidence

(b) Improvement in endurance

(c) Increase in depression

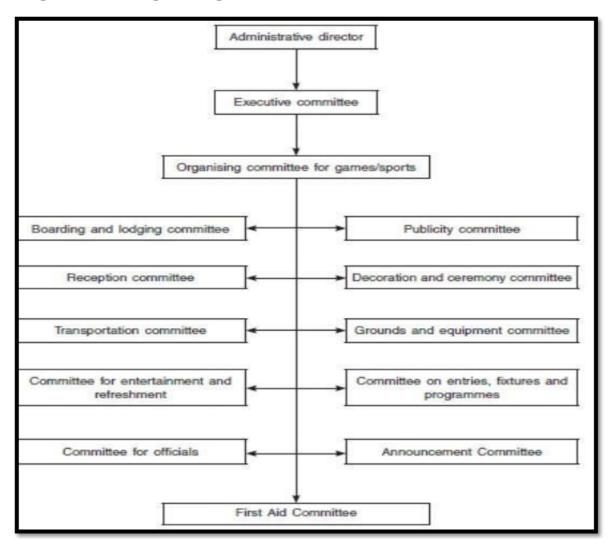
(d) Better hand-eye coordination

Q16. If the menstru	nation cycle does r	not begin at pubert	y, the condition is ca	lled	
(a) Primary Amenor (c) Oligomenorrhea	rrhea		condary amenorrhea ysmenorrhea		
Q17. Senior Citizer	Fitness Test the	range of age group) is		
(a) 60-94	(b) 55-79	(c) 65-95	(d) 50-90		
Q18. Kyphosis is al	so known as				
(a) Hallow Back (c) Curve Back			(b) Hunch Back (d) both (a) and		
		(SECTION - I	B)		
Q19. Point out physi	iological factor for	strength.		[4X0	.5=2]
Q20. Write short not	te on Goal setting			[1+1=	=2]
Q21. Explain Isokin	etic exercise with s	suitable examples		[1+1=	=2]
Q22. Write a key po	int on cardio respir	ratory factors determ	nining fitness.	[1+1=	=2]
Q23. Explain the pro		g of 600meter run/w	valk	[1+1=	=2]
Explain the importa	_		on.	[1+1=	=2]
		(SECTION - C	")		
O24 Evaloin ony the	eas stratagies to Ma			CNI	[1+1+1=3]
	_	•	ies Accessible for CW	SIN	
Q25. What are the b	enefits of Non-Nut	tritive foods?			[1+1+1=3]
Q26. What should be	e the role of techni	cal and marketing c	ommittee while organ	izing th	e event? [1.5+1.5=3]
Q27. Differentiate be	etween Introvert ar	nd Extrovert person	ality?		[1+1+1=3]
Q28. Define Fractur	- •	four types of fractur	re		[1+2=3]
Write in brief the co	rrective measures of	of Bow Leg, Knock	Knee and Flat Foot.	[1+1-	+1=3]

(SECTION - D)

4 marks each

Q29. While organizing sports events for the Annual Sports Day, Arjun and Ravi being the captainand vice-captain of sports, formed various committees as shown below.



On the basis of above given picture answer the following questions:

- a) The members of this committee are responsible for welcoming guests and spectators_____
- b) The Committee responsible for liaison with Print media is the _____ Committee.
- c) Purchase of sports equipment is a work of the ______ Committee.
- d) Publication of rules and regulations should be done ______.

OR

d) To prepare a proper score sheet for record is ______responsibility.

Q30. During her gymnastics practice, Zoya was finding it difficult to maintain her balance on the balancing beam. Her coach tried to explain to her about basic principles of equilibrium.



According to the principles of equilibrium Centre of gravity plays a very important role.

(a) The nearer the Center of Gravity to the Center of the base of support the more will be the (b) The position of the centre of gravity changes depending upon the _____. (c) The sum of all the vertical and horizontal forces acting on the body must be_____ (d) Centre of gravity is the average location of an object's _____

OR

(d) When the sum of force acting upon the object and sum of the movement acting upon the body is both equal to zero then the body is said to be in _____

Q31. School management needs to recognize the essential place of physical activity in the education of children with special needs. In order to develop lifelong habits for fitness and to provide them with many opportunities of socialization, schools need to understand that physical education is not a secondary subject but it is just as important as other skills.



On the basis of above given picture answer the following questions:

 a) Development of Gross Motor and Fine Motor skills are benefits which are part of b) Graded activities as strategy for effective inclusive physical education program includes c) for activities should be disturbance free (noise, heat, cold, texture of floor, audience etc.) d) The activities that include running, jumping, hopping, galloping, rolling, leaping and dodging, horizontal jump, slide
(SECTION - E)
Q32. Discuss the asanas helpful for a person suffering from Hypertension. Write down the procedure and contraindications of Sarala Matsyasana in detail. [2+3=5]
Q33. Make a table of test items listed under fitness test by SAI (Age group 9-18 yrs) Explain the Procedure and Scoring of 50 MTS Run and Partial Curl Up [1+2+2=5]
Q34. Define Flexibility. Explain its types and any two methods to develop flexibility.
OR [1+2+2=5]
With the help of suitable examples, discuss the application of Newton's Laws of Motion in sports.

[3+2=5]

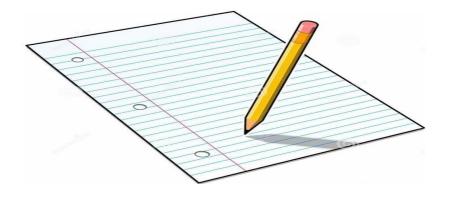


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MARKING SCHEME
SAMPLE QUESTION PAPER

PHYSICAL EDUCATION (048)

CLASS-XII 2023-2024



Time Allowed: 3hrs Max. Marks:70

ANSWER KEY

Q.NO.	ANSWER	MARKS DISTRIBUTION
	(SECTION - A)	
1	(a) Pawanmuktasana	1
2	(b) Hostile Aggression	1
3	(a) Opposite	1
4	(a) Laceration	1
5	(a) Both (A) and (R) are true and(R) is the correct	1
	explanation of (A)	
6	(a) Iso means constant and metric means length	1
7	(b) Cardiac Output	1
8	(b) Second Law of Motion	1
9	(a)	1
10	(b) Both (A) and (R) are true but(R) is not the correct	1
	explanation of (A)	
11	(c) 4	1
12	(c) Pancreas	1
13	(c) N (N-1)/2	1
14	(b) League	1
15	(c) Increase in depression	1
16	(a) Primary Amenorrhea	1
17	(a) 60-94	1
18	(b) Hunch Back	1
	(SECTION - B)	
20	Strength is the ability of the body to work against resistance and has varied sub-types such as Maximum Strength, Explosive Strength, Strength, Endurance etc. Each has different types of exercise, intensity and duration so physiological factors vary. Different sports require different amount of strength and according to that, mixture of the slow twitch fiber and fast twitch fiber is needed. Generally, in all the strength related sports where sudden burst of energy is required, high percentage of fast twitch fiber is required. • Goal setting is a mental training technique that can be used to increase an individual's commitment towards achieving a specific standard of proficiency on a task within a specified time. It is a process of establishing	1+1=2
	 a level of performance proficiency which should be reached within a prescribed time period is known as goal setting. It has proven effectiveness in enhancing performance and productivity in several contexts, including 	

	employee exercise programs, competitive sport, and industrial organizations, and provides a basis for both increasing a person's SELF-EFFICACY and for instilling a task with intrinsic worth.	
21	These are exercises in which movements can be seen directly. Isotonic exercises result in toned muscles and increased muscle length. These exercises hold much importance when it comes to sports. This method is considered to be the best method to develop strength. Examples of isotonic exercises include running and jumping on the spot, weight training exercises, and calisthenics exercises.	1+1=2
22	 Cardiovascular system - It consists of three parts: the heart, blood vessels and blood. Its major function is to deliver oxygen and nutrients, remove CO2 and other metabolic waste products, to transport hormones and other molecules, to support thermoregulation and control of body fluid balance and lastly to regulate immune function. Respiratory system - The important parts of the respiratory system are the nose, nasal cavity, pharynx, larynx, trachea, bronchi, and lungs. Air can also enter the respiratory system through the oral cavity. Its major functions include, transporting air to the lungs, exchanging gases (O2 and CO2) between the air and blood, and regulating blood pH. 	1+1=2
23	 Procedure: Participants are instructed to run 600 mts. at the fastest possible pace. The participants begin on signal, "ready, start". As they cross the finish line, the elapsed time should be announced to the participants. Walking is permitted but the objective is to cover the distance in the shortest possible time. Scoring: Time taken for completion (Run or Walk) in min and sec. 	1+1=2
	 Dealing with nutritional needs during training is crucial for optimal performance. The main aim during exercise and training should be to maintain water balance, control body temperature, sustain normal blood sugar levels and delay fatigue. In order to maintain fluid balance and normal body temperature during exercise, water that is lost through sweating during exercise needs to be replaced. 	1+1=2
	(SECTION - C)	
24	 Communication – Advance information about activity, space, resource person or any change in activity should be communicated clearly. A variety of different instructional strategies such as verbal, visual and peer teaching should be used for performing various types of physical activities so that children get opportunity to participate in physical activity. 	1+1+1=3

	 Space – For CWSN, space should be approachable for people having physical disability. The area for the physical activity should be limited. Space for activities should be disturbance free (noise, heat, cold, texture of floor, audience etc.) It is always better to start with indoor space. Equipment - A lack of appropriate equipment, coupled with a lack of professionals trained to support physical activity among children and youth with different ability levels, discourages participation. 	
25	 Phytochemicals- Phytochemicals are chemical compounds produced by plants, generally to help them thrive or thwart competitors, predators, or pathogens. The name comes from Greek phyton, meaning 'plant'. Anthocyanins: Anthocyanins give grapes, blueberries, cranberries, and raspberries their dark color. Flavonoids or isoflavones: These are found in vegetables, fruits and grains like soybeans, chickpeas and may act a little bit like estrogen. Artificial Sweeteners: These are synthetic compounds that duplicate the taste of sugar, but contain less energy, and, therefore, are often added to diet foods and beverages. Preservatives: These are compounds that have the ability to inhibit microbial growth and are often added to food and beverage products to prolong shelf life. Spices: A spice is a dried seed, fruit, root, bark or vegetable substance primarily used for flavoring, coloring or preserving food. Coffee: Coffee is a brewed beverage prepared from the roasted or baked seeds of several species of Coffee. 	1+1+1=3
26	This committee covers the technical aspect of the events like requisitions to procure sports equipment, conducting matches on time through selected officials (referees, umpires, judges, timekeepers etc.) for their respective games/sports. • Pre-Sports Event/ Tournament: Before the event, it is the job of the Technical Committee to put forward a requisition to purchase equipment, invitation and confirmation from officials to conduct sports event, cleaning and layout of the fields, arrangement of equipment and stationery, preparation of fixtures, rules and regulation of the sports event. • During Sports Event/Tournament: While the tournament is in progress, the Technical Committee is responsible for conducting matches, presence of the jury, cleaning and layout of the fields, collection of score sheets and other related papers from officials,	1+1+1=3

	Post over clear	, the Technical (ning and layout of t	committee arranges for the the fields, maintenance of the	
27	field,	and placing of all e	equipment back to store.	
21				1+1+1=3
	IN	TROVERT	EXTROVERT	11111-5
	Interested	in their own self	Highly socialized Broad-	
	Reserved		minded	
	Self-aware	and introspective	Expressive and enjoy	
	1 1	asure in reading,	centre of attention Meet	
		end to shy away	unknown people easily	
	from public			
	Think befo	re acting	Action oriented	
28	A fracture i	s a break in a bon	e. Fractures are caused by a	1+1+1=3
_0		ct, such as a fall or		11111=5
		ss fracture		
		enstick		
		minuted		
		sverse		
	Oblid			
	• Impa	•		
		OR		
	Bow	Use of braces a	nd modified shoes can be	1+1+1=3
	Legs	along with sufficie	nt intake of balanced diet can	
		prove to be of help	p. Walking on the inner edge	
		of the feet may als		
	Flat Foot		king, standing or jumping on	
			all four directions, skipping	
			the muscles of foot which	
			ne arch in the foot. Activities	
			marbles with toes, writing	
			nd with the toes will also help	
			e arch. Yoga asanas like	
		Adhomukhsavasa	na performed in Surya sana and other therapeutic	
			so helpful in developing the	
		arch.	30 Helpiul III developilig tile	
	Knock		enu valgum largely depends	
	Knees		nd severity of the problem.	
			orse-riding and keeping the	
			e knees and standing erect	
		, -	re the best. For most people	
			, Yoga and exercise can help	
		realign and stab	ilize the knees. Performing	
			gomukhasana regularly can	
			muscles of the legs and	
		_	Strengthening exercises can	
		•	as leg raises while seated or	
		, , ,	of walking calipers is also a	
		big help at pre-pu	perty stage.	

	(SECTION - D)	
29	a) Logistic Committee	1+1+1+1=4
	b) Marketing Committee	
	c) Finance Committee	
	d) Pre-Event	
	OR	
	d) During Responsibility	
30	a) Stability	1+1+1+1=4
	b) Position of the body	
	c) Zero	
	d) Weight	
	OR	
	d) Equilibrium	
31	a) Physical Benefits	1+1+1+1=4
	b) Simple to Complex	
	c) Space	
	d) Locomotor Activity	
22	(SECTION - E)	2.2.5
32	Hypertension: Tadasana, Katichakrasana, Uttanpadasana,	2+3=5
	Ardha Halasana, Sarla Matyasana, Gomukhasana, Uttan	
	Mandukasana, Vakrasana, Bhujangasana, Makarasana,	
	Shavasana, Nadi-Shodhanapranayam, Sitlipranayam.	
	Technique Lie flat on the book	
	Lie flat on the back.	
	1. With the support of your hands keep the top of your head	
	on the mat.	
	2. Neck, upper back and shoulders will be lifted from the	
	ground.	
	3. Relax your hands at the side of your body.	
	4. Breathe normally and keep your toes stretched out.	
	5. Hold the position for 30 seconds, then relax.	
	Breath Awareness	
	1. Inhale as you lift the chest and tuck the head.	
	2. Exhale while relaxing the body and bring it to the initial	
	position.	
	3. And get back to normal breathing.	

	Contraindications	
	People with cervical spondylitis and frozen shoulder should	
	avoid practicing this asana.	
33	AGE GROUP: 9-18+ YEARS CLASS 4 to 12 For Class 4 to	1+2+2=5
	12, It is important for students to have an overall physical	
	fitness. The following Components are to be considered in	
	Physical Health and Fitness Profile:	
	1. Body Composition (BMI)	
	2. Strength a. Abdominal (Partial Curl-up) b. Muscular	
	Endurance (Push Ups for Boys, Modified Push Ups for Girls)	
	3. Flexibility (Sit and Reach Test)	
	4. Cardiovascular Endurance (600 Meter Run/Walk)	
	5. Speed (50 mt. Dash)	
	50 MTR DASH (STANDING START)	
	Procedure: A thorough warm up should be given,	
	including some practice starts and accelerations.	
	Start from a stationary position, with one foot in front	
	of the other. The front foot must be on or behind the	
	starting line. This starting position should be static	
	(dead start). The tester should provide hints for	
	maximizing speed (suchas keeping low, driving hard	
	with the arms and legs) and encouraged to continue	
	running hard through the finish line.	
	Scoring: Time taken for completion	
	ABDOMINAL (PARTIAL CURL-UP)	
	Procedure: The subject lies on a cushioned, flat,	
	clean surface with knees flexed, usually at 90	
	degrees, with hands straight on the sides (palms	
	facing downwards) closer to the ground, parallel to the	
	body. The subject raises the trunk in a smooth motion,	
	keeping the arms in position, curling up the desired	
	amount (at least 6 inches above/along the ground	
	towards the parallel strip). The trunk is lowered back	
	to the floor so that the shoulder blades or upper back	

touch the floor.

	Scoring: Record the maximum number of Curl ups in	
	a certain time period (30 seconds).	
34	Flexibility is also known as the range of motion around a	1+2+2=5
	joint.	
	Types: (a.) Passive Flexibility: the ability to do movements	
	with greater amplitude and with external help is known as	
	passive flexibility.	
	(b) Active Flexibility: the ability to perform a movement with	
	greater amplitude without external help is called active	
	flexibility.	
	The various methods that can help to improve flexibility are	
	discussed below:	
	1. Slow Stretching	
	2. Slow Stretch and Hold	
	3. Ballistic Method	
	4. Proprioceptive Neuro-Muscular Facilitation (PNF)	
	Technique	
	OR	
	NEWTON'S FIRST LAW OF MOTION (LAW OF INERTIA)	3+2=5
	According to the first law, a body will remain at rest or	
	continue to move at a constant velocity unless acted upon by	
	an external (resultant) force. Inertia is the resistance of any	
	object to any change in its motion, including a change in	
	direction— objectives to keep moving in a straight line at a	
	constant speed.	
	Application in Sports	
	A skater gliding on ice will continue gliding with the	
	same speed and in the same direction unless an	
	external force acts upon the skater.	
	When a ball is thrown and is in mid-air, the only force	
	acting upon it is the force of gravity. If the force of	
	gravity did not exist, the ball would keep traveling at a	
	constant speed until it was affected by an object or	
	another person touched it. If this ball were thrown	
	upwards, it would end up traveling into space.	

NEWTON'S SECOND LAW OF MOTION (LAW OF MOMENTUM)

As per the law, the rate of change of momentum is proportional to the resultant force and takes place in the direction of the resultant force. When a net force acts on an object, the acceleration of the object it produces is directly proportional to the magnitude of the net force, is in the same direction as the net force and inversely proportional to the mass of the object. The more mass the thing has, the more net force has to be used to move it.

Application in Sports

- As in Shot-put, a player who applies more force and tosses the shot-put at the correct angle has a greater displacement of shot-put, whereas a player who exerts less force has a lesser displacement of shot put.
- In soccer, a team will require more force to kick the ball high and faster. This law of motion is fundamental in soccer, so you can calculate the force needed to give a pass or kick the ball to the net without missing.

NEWTON'S THIRD LAW (LAW OF REACTION)

According to this law, there is an equal and opposite reaction for every action, and this reaction acts with the same Momentum and the opposite velocity for every action. It states that whenever one object exerts a force on a second object, the second object exerts an equal and opposite force on the first object.

Application in Sports

 In Swimming, a diver needs to push down on the springboard when he/she dives off a diving board.
 The springboard pushes back the force on you for proper projecting into the air during the performance.