# CBSE Class 12 Physical Education Sample Paper 02 (2020-21)

Maximum Marks: 70

Time Allowed: 3 hours

### **General Instructions:**

- i. The question paper consists of 30 questions and all are compulsory.
- ii. Question 1-12 carries 01 mark each and are Multiple Choice Questions.
- iii. Questions 13-16carry 02 marks each and shall not exceed 40-60 words.
- iv. Questions 17-26 carry 03 marks each and shall not exceed 80 -100 words.
- v. Questions 27 30 carry 05 marks each and shall not exceed 150-200 words.

### Section A

- 1. Which of the following is NOT an objective of planning in sports?
  - a. Finding out the causes of failure
  - b. Distribution of work
  - c. Timely achievements of the targets
  - d. Training of empires and coaches

OR

For the successful organization of the sports meet, committees are formed under three heads. Which of the following is NOT one of them?

- a. Post-meet committee
- b. Pre-meet committee

	c.	During-meet committee			
	d.	First-meet committee			
2.	Which of the following is NOT part of a balanced diet?				
		Vitamins			
		Carbohydrates			
	c.	Proteins			
	d.	Probiotics			
3.	Wì	nat is the healthy BMI range of a person?			
	a.	Less then 18			
	b.	35-40			
	c.	18.5-24.9			
	d.	25-30			
	1000	23-30			
	12776	OR OR			
	Sul	OR			
	Sul a.	OR khasana should be avoided in			
	Sul a. b.	OR khasana should be avoided in Hypertension			
	Sul a. b. c.	OR  khasana should be avoided in  Hypertension  Asthma			
4.	Sul a. b. c.	OR  Khasana should be avoided in  Hypertension  Asthma  Knee problems			
4.	Sul a. b. c. d.	Asthma Knee problems Pregnancy			
4.	Sul a. b. c. d. Rej a.	chasana should be avoided in  Hypertension  Asthma  Knee problems  Pregnancy  peated Action is called			
4.	Sul a. b. c. d. Rej a. b.	chasana should be avoided in  Hypertension  Asthma  Knee problems  Pregnancy  peated Action is called  ADHD			

	d.	ODD					
5.	In	this deformity, there is no arch in the foot and the foot is completely flat. It is					
	8						
	a.	Short foot					
	b.	Plain foot					
	c.	Normal foot					
	d.	Flat foot					
6.	_	is a part of the senior fitness test protocol and is designed to test the functional					
	fiti	ness of seniors.					
	a.	Harvard Step Test					
	b.	Six Minute Walk Test					
	c.	One hour Walk Test					
	d.	50 Meter Walk Test					
7.	Wì	Which of the following is NOT a standard technique for injury management?					
	a.	AAPHAR					
	b.	RICER					
	c.	No-HARM					
	d.	TOTAPS					
		OR					
	Str	ength is determined by which physiological factor?					
	a.	Muscle stretching					
	b.	Bodyweight					
	c.	Joints					
	d.	Muscle coordinator					

8. Opening of hand sidewise when our hand is moving away from the body is an example of a. Flexion b. Abduction c. Extension d. Adduction 9. Which of the following is NOT part of the big five personality traits? a. Openness b. Helpfulness c. Agreeableness d. Conscientiousness Which is not the training method to develop Endurance. a. Continuous method b. Post isometric stretch method c. Fartlek method d. Interval method 11. Given below are the two statements labeled Assertion (A) and Reason (R). A. Assertion (A): Correct body posture is the position of body hold without any sense of effort. B. Reason (R): The body weight should be equally distributed over both legs. Assertion and reason both are correct statements and reason is the correct explanation for the assertion. Assertion and reason both are correct statements but the reason is not the correct explanation for the assertion.

The assertion is a correct statement but the reason is the wrong statement.

	a.	Muscles		
	b.	Lungs		
	c.	Bones		
	d.	Heart		
13.	Ide	entify the below-given Asanas a	l write their names.	
		E.S.	-	
	(day)			A <sup>360</sup>
	B			
14.	Ide	entify the below-given Postural	eformities and write the	ir names.
	1			
		1000000000000000000000000000000000000		
10				

d. The assertion is the wrong statement but the reason is the correct statement.

12. Vitamin makes \_\_\_\_\_ strong.

S	

- 15. Does a genetic factor cause ADHD?
- 16. What do you mean by rotation?

OR

What is the frontal plane?

17. Raman is a wrestler. He had to participate in a competition a few weeks later. He is undergoing vigorous training programmes along with diet control by reducing proteins and fat in his diet. This reduced his weight sharply.
Based on this case, answer the following questions.

- i. What do you think would be the main reason behind losing weight by most of the wrestlers before the competition?
  - a. For participating in the lower weight category
  - b. For improving physique
  - c. For improving performance
  - d. For some other purpose
- ii. What are the pitfalls which he can face after doing diet-control?
  - a. Sudden weight gain
  - b. Health problems
  - c. Dietary deficiency
  - d. All of these
- iii. What is a major component of a pre-competition diet?
  - a. Fats
  - b. Proteins

- c. Carbohydrates
- d. Vitamins
- 18. Kanika eats a lot of junk food and leads an unhealthy lifestyle. Her weight is almost 20% more than the ideal weight for his own age group. Due to her obesity, her physique and body posture looks weird. So, she wants to do dieting but her mother suggested doing regular yoga asanas for weight control.

Based on this case, answer the following questions.

- i. Which Asana(s) would have Kanika's mother suggested to her?
  - a. Vajrasana
  - b. Trikonasana
  - c. Hastasana
  - d. All of these
- ii. Which asana is known as 'Diamond Pose'?
  - a. Hastasana
  - b. Vajrasana
  - c. Ardh Matsyendrasana
  - d. Pavanmuktasana
- iii. The BMI for an obese person is
  - a. > 20
  - b. < 15
  - c. > 30
  - d. > 40
- Friction is a necessary evil. Justify your answer with suitable examples from the sport.

OR

How Newton's second law and third law of motion can be applied in sports.

- 20. Describe the purpose and procedure of six-minute walk test for aerobic endurance.
- 21. A famous cricket star Phillip Hughes was struck behind the ear by a ball while batting and died two days after the injury. He was wearing a helmet but the possible reason

mentioned was that even when using a helmet, possible a significant port of the neck remained exposed and the ball hit him there. And now most of the top cricketers across the world use deeper protection,

- i. Do you feel protective gears are important? Lay stress on your view.
- ii. What first aid should be provided during injury at the superficial layer of the skin?
- 22. How can women's participation in sports and games be encouraged in India?
- Enlist two types of coordinative ability.
- 24. How does the Sensory Processing Disorder interfere with a child's normal everyday functioning?
- 25. What are the methods of endurance development?
- Explain food myths.

OR

Find the difference between Macro & Micronutrients.

- 27. What are the types of personality and explain in detail the role of sports in personality development?
- 28. What are the aims of sports medicine? Describe in brief. OR

Write in detail about the dislocation and fractures among the bones and joint injuries.

Mention all calculations and steps involved to draw a Knock-out fixture of 19 teams,
 where 4 teams are to be seeded. OR

What is seeding? Explain, by giving suitable example, the method of giving special seeding.

Describe the procedure for administering Rikli & Jones fitness test.

# 12 Physical Education Sample Paper - 02 Class 12 - Physical Education

### Solution

### Section A

- 1. (d) Training of empires and coaches. OR
  - (d) First-meet committee
- 2. (d) Probiotics
- 3. (c) 18.5-24.9

Explanation: According to WHO criteria the healthy BMI range of a person is in between 18.5 to 24.9. OR

(c) Knee problems

Explanation: If someone is having knee injury they should avoid Sukhasana.

- 4. (d) ODD
- 5. (d) Flat foot
- 6. (b) Six Minute Walk Test
- 7. (a) AAPHAR

OR

- (b) Body weight
- 8. (b) Abduction
- 9. (b) Helpfulness
- 10. (b) Post isometric stretch method
- (b) Assertion and reason both are correct statements but reason is not correct explanation for assertion.
- 12. (c) Bones
- 13. i. Pavan Muktasana
  - ii. Sukhasana
  - iii. Tadasana
  - iv. Trikonasana
- 14. i. Knock Knee
  - ii. Scoliosis

- iii. Kyphosis
- iv. Lordosis
- 15. ADHD is not a disorder that passed socially. Research Studies show that parents, siblings, and children of people with ADHD may be up to five times more likely to have the disorder than the people who are not related to someone with ADHD.
- 16. Rotation is a form of movement in which a bone moves around a central axis without undergoing any displacement from the axis. Moving apart around an axis is called rotation.eg. Twisting the head from side to side.

OR

Frontal or Coronal plane: the frontal plane is also vertical and passes from left to right dividing the body into posterior to anterior halves. It is also known as the coronal plane. The frontal plane cuts the body into front and back. Movements along the frontal plane can include cartwheel and star jumps.

- i. (a) For participating in the lower weight category
   Exp- Boxers and wrestlers often tend to lose their weight before competitions to compete in the lower weight category.
  - ii. (d) All of these

Exp- Weight loss through dieting leads to various pitfalls like sudden weight gain, health problems, nutrients deficiency, etc.

iii. (c) Carbohydrates

Exp- Carbohydrates are much required before competitions because it fills our body with energy and improves our performance level.

18. i. (d) All of these

Exp- Vajrasana, Trikonasana, and Hastasana are too effective in curing Obesity.

ii. (b) Vajrasana

Exp- Vajrasana is known as 'Diamond Pose'

iii. (c) >30

Exp- If the BMI of a person is greater than 30, then he is considered as obese.

19. Friction is usually called a necessary evil. It means that it is essential in games and sports. Without friction, we cannot give a better performance in the field of sports.

Examples are spikes used by athletes for running and studs used in football boots of the players. However, friction has disadvantages also. In cycling, there should not be more friction between road and the tyres of the cycle.

OR

- Law of acceleration: According to this law, A change in motion is directly
  proportional to the force producing it and inversely proportional to its mass. If
  two unequal forces are applied to objects of equal mass, the object that has greater
  force applied will move faster. Conversely, if two equal forces are applied to
  objects of different masses, the lighter mass will travel at a faster speed.eg. In the
  hammer throw, a thrower who is stronger will throw the hammer farther than a
  thrower who is less strong.
- 2. Law of reaction: According to this law 'For every action there is an equal and opposite reaction.' There are so many examples in sports where this law is applied. e.g., In swimming, a swimmer pushes the water backwards (action) and the water pushes the swimmer forward (reaction) with the same force. In swimming, a swimmer pushes the water backward (action). The water pushes the swimmer forward (reaction) with the same
- 20. Purpose This test measures the aerobic fitness and endurance of senior citizens. Procedure The walking course is laid out in a 50 yard (45. 72 mtr.) rectangular area (dimension 45 × 5 yards) with cones placed at regular intervals to indicate distance walked. The aim of this test is to walk as quickly as possible for six minutes to cover as much ground as possible. Subjects are to set their own pace (a preliminary trial is useful to practice pacing and are able to stop for a rest if they desire.
- 21. i. Yes, protective gears are very important m sports as they serve an integral role in maintaining the safety of the players and in preventing injuries. In contact sports like football, handball and m sports where the prop is used like hockey sticks, players have a greater chance of injury. Therefore protective gears are important.
  - An injury at the superficial layer of the skin also called abrasion is a soft tissue injury.

The RICER technique should be used as first aid in soft tissue injuries.

- 22. The following steps should be taken to increase women's participation in sports:-
  - Coaching Programmes During coaching, women should be motivated and provided appropriate opportunities to undertake leadership positions within an organization. State of the art technical instruction should be provided to them. A flexible approach by the authorities is required for the participation of women in sports.
  - Safety- This is another factor that promotes girls' participation in sports.Exercising in groups can make physical activity safer for women and girls.
  - Facilities Keeping in mind the hygienic needs of women and girls separate
    changing facilities should be arranged for them. Childcare should be provided so
    that women can bring their children to training or competition venues without
    hesitation.
  - Affordability Participation fees in sports should be reduced or abolished for women. Concessions for traveling and boarding should be provided to women.
- 23. Orientation ability- It is the ability to determine the position of the body & its parts in time & space in relation to gravity. It depends on the functional capacity of sensory organs like eyes & other sense organs. Reaction ability-It is the ability to react immediately to a signal. They are of two types as simple reaction & complex reaction.
- 24. Sensory Processing Disorder is a condition in which the brain has difficulty in receiving and responding to the information that comes in through the senses. It refers to the way the nervous system receives messages from the senses and then turns them into the proper motor and behavioural responses. Sensory Processing Disorder may affect one senses such as touch, sight, taste or movement. In fact, the person may scream when touched or may vomit or dive under the table after hearing the sound of a leaf blower outside the window. Sensory Processing Disorder is a condition in which the brain has difficulty in receiving and responding to the information that comes in through the senses. It refers to the way the nervous system receives messages from the senses and then turns them into the proper motor and behavioural responses. Sensory Processing Disorder may affect one senses such as touch, sight, taste or movement. It may also affect multiple senses. In fact, the person may scream when touched or may vomit or dive under the table after hearing the sound of a leaf blower outside the window.

### 25. ENDURANCE DEVELOPMENT:-

- a) Continuous method:-
- i) Slow continuous method
- ii) Fast continuous method.
- b) Interval training method:-
- i) Speed of work
- ii) Duration of work
- c) Fartlek training method:-
- i) it is flexible in nature
- ii) no equipment
- 26. There are various food myths especially prevailing in Indian when to eat what how much and where to eat etc, things like that often confuse individuals, they are believed by people and now have scientific knowledge which says not to believe them.
  - 1. Potatoes make you fat
  - 2. Fat-free products will help you in losing weight
  - 3. Eggs increase cholesterol levels so avoid them
  - 4. Drinking while eating makes you fat
  - 5. Don't take milk immediately after eating fish
  - 6. Starve yourself if you want to loose weight

OR

Macronutrients mainly include carbohydrates, proteins and fats and also water which are required in large quantities and their main function being the release of energy in body. Whereas, micronutrients mainly comprise vitamins and minerals which are required in minute quantities. However, both macronutrients as well as micronutrients are essential. Macronutrients include Carbon, Oxygen, Hydrogen, and Nitrogen. Micronutrients are chlorine, iron, manganese, zinc, boron, sodium, copper, molybdenum and nickel.

27. Personality is the dynamic organization within the individual of those psychophysical systems which determine his unique adjustment to his environment. Personality is not a static but a dynamic concept. It is continuously changing and growing. Children may have identical environment. They may have similar experiences but they react to the same environment in different way.

**Types of Personality** Introverts:- Introverts are shy, self-conscious quit retiring interested in the own thoughts and feelings, inclined to worry and easily upset.

**Extroverts:**- Extroverts are social, open frank, outgoing, eager to do thing adaptable, not easily worried or embarrassed and willing to work with others.

**Ambiverts:-** In ambiverts both the characteristics of introverts and extroverts are found. In every person mostly both the characteristics are found through one of them may be predominant. Sports play a very important role in personality development. They improve the following qualities.

- (a) Self-concept
- (b) Mental toughness
- (c) Emotional stability
- (d) Quick Decision
- (e) Planning (Points to be explained) Sports and games play an important role in the development of human personality. They are no less important than food and fresh water. Games and sports help to combat anxiety, depression and stress. Sports train sportsmen to accept defeat gracefully and to move on.
- 28. The main aims of sports medicine are as follows:
  - a. To provide information to athletes about injuries.
  - To provide knowledge about the causes of injuries.
  - c. To provide means or treatment for sports injuries and for the rehabilitation of injuries.
  - d. To provide knowledge about the preventive measures of sports injuries.

To provide information to athletes about injuries: It is the foremost aim of sports medicine, Generally, the sportsperson do not have complete information & knowledge about injuries which usually occur during training or competition. A coach is expected to provide such knowledge to the sportsperson.

To provide knowledge about the causes of injuries: sports medicine provides knowledge about the causes of injuries. There may be various causes of injuries such as improper conditioning, faulty techniques, improper fitness etc.

To provide means or treatment for sports injuries and for the rehabilitation of injuries: it is another significant aim that after providing first aid to the injured sportsperson, the specialist of sports medicine must be informed of providing treatment to the injured athlete. For rehabilitation, various methods such as hydrotherapy, electrotherapy, physiotherapy are used.

To provide knowledge about the preventive measures of sports injuries: Athletes should be provided knowledge in advance regarding the preventive measures so that there will be rare chances for him to get injured.

OR

Dislocation: It is an injury of the joint in which, the adjoining bones are displaced from their original position. Dislocations mainly occurs in contact sports, such as football, hockey, and in sports that may involve falls, such as downhill skiing, gymnastics, volleyball and also during motor vehicle accidents.

Dislocation takes place in different location of the joints like:

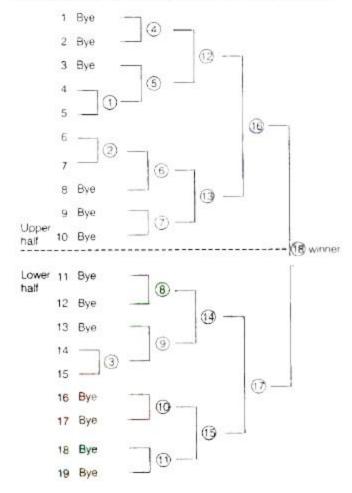
- Dislocation of the shoulder joint.
- 2. Dislocation of the lower jaw.
- 3. Dislocation of the hip joint.

Fracture: Bone injuries occur in the bone due to some impact or minimal trauma injury as a result of certain medical conditions that weaken the bone. There are many types of bone injuries which are as follows:

- Simple fracture
- 2. Compound fracture
- Greenstick fracture

- 4. Comminuted fracture
- 5. Transverse fracture
- 6. Oblique fracture
- 7. Spiral fracture
- 8. Pathologic fracture
- 9. Impacted fracture
- Stress fracture.
- 29. Knock-out or Elimination Tournaments (also called an Olympic System Tournament) is a type of elimination tournament where the loser of each bracket is immediately eliminated from the tournament.

A fixture of 19 teams on a knock-out basis



OR

Seeding: Seeding is a process by which good teams are fitted in fixtures in such a way that stronger teams do not meet each other in earlier rounds. This seeding method is only possible if the standard of the teams is known beforehand. This method is

applied to keep up the interest of spectators alive till the last match. On account of their previous performances, these teams or players are kept in separate halves. Further, it is well known in advance that some of the top-ranking players or teams are generally drawn in the fixture in such a way that they have fitted straight away into the quarter-finals. This is known as the special seeding method. Though this arbitrary method of drawing fixture may be felt as unfair but it is desirable to keep the interest sustained in the tournament.

Example: Fixture

Seeding:

Number of teams = 11

Bye = 
$$16 - 11 = 5$$
 byes

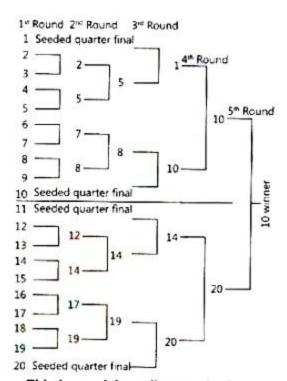
So, 4 seeded teams shall be given byes and 5th bye would go to any other team.

Special Seeding:

Number of teams = 20

Teams in each quarter =  $\frac{20}{4}$  = 5 teams

(last year semi-finalists are given special seeding or 4 top rankings.)



This is special seeding method

 The test used to measure the fitness of senior citizens is Rikili and Jones Senior citizen fitness test. The Senior Fitness Test was developed as part of the Life Span Wellness Program of fullerton University by Dr. Roberta Rikli and Dr. Jessie Jones. It is a simple easy-to-use battery of test items that assess the functional fitness of older adults. The test describes easy to understand and effective tests to measure aerobic fitness, strength and flexibility using minimal and inexpensive equipment. The Individual fitness test items involve common activities such as getting from a chair, walking, lifting, bending and stretching. The tests were developed to be safe and enjoyable for older adults while still meeting scientific standards for reliability and validity. Here is a list of the tests, with links to more details for each.

- Chair Stand Test testing lower body strength
- 2. Arm Curl Test testing upper body strength.
- 3. Chair sit and Reach Test lower body flexibility test
- 4. Back Scratch Test upper body flexibility test
- 5. 8-Foot Up and Go Test agility test
- 6. Walk Test (6 minutes)

OR

Step in Place Test (2 minutes) - The walk test is used to assess aerobic fitness unless the person uses orthopedic devices when walking or has difficulty balancing in which case they do the step in place test.