Roll No.	Signature of Invigilators				
(Write Roll Number from left side exactly as in the Admit Card)		1			
2018		Question Booklet Series Y			
	PAPER-II	Question Booklet No.			
Subject Code: 20		(Identical with OMR Answer Sheet Number)			

## PHYSICAL EDUCATION

Time: 2 Hours Maximum Marks: 200

## Instructions for the Candidates

- 1. Write your Roll Number in the space provided on the top of this page as well as on the OMR Sheet provided.
- 2. At the commencement of the examination, the question booklet will be given to you. In the first 5 minutes, you are requested to open the booklet and verify it:
  - (i) To have access to the Question Booklet, tear off the paper seal on the edge of this cover page.
  - (ii) Faulty booklet, if detected, should be got replaced immediately by a correct booklet from the invigilator within the period of 5 minutes. Afterwards, neither the Question Booklet will be replaced nor any extra time will be given.
  - (iii) Verify whether the Question Booklet No. is identical with OMR Answer Sheet No.; if not, the full set is to be replaced.
  - (iv) After this verification is over, the Question Booklet Series and Question Booklet Number should be entered on the OMR Sheet.
- 3. This paper consists of One hundred (100) multiple-choice type questions. All the questions are compulsory. Each question carries *two* marks.
- 4. Each Question has four alternative responses marked: (A) (B) (C) (D). You have to darken the circle as indicated below on the correct response against each question.

Example: (A) (B) (D), where (C) is the correct response.

- 5. Your responses to the questions are to be indicated correctly in the OMR Sheet. If you mark your response at any place other than in the circle in the OMR Sheet, it will not be evaluated.
- 6. Rough work is to be done at the end of this booklet.
- 7. If you write your Name, Roll Number, Phone Number or put any mark on any part of the OMR Sheet, except in the space allotted for the relevant entries, which may disclose your identity, or use abusive language or employ any other unfair means, such as change of response by scratching or using white fluid, you will render yourself liable to disqualification.
- 8. Do not tamper or fold the OMR Sheet in any way. If you do so, your OMR Sheet will not be evaluated.
- 9. You have to return the Original OMR Sheet to the invigilator at the end of the examination compulsorily and must not carry it with you outside the Examination Hall. You are, however, allowed to carry question booklet and duplicate copy of OMR Sheet after completion of examination.
- 10. Use only Black Ball point pen.
- 11. Use of any calculator or mobile phone etc. is strictly prohibited.
- 12. There are no negative marks for incorrect answers.

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### PHYSICAL EDUCATION

### PAPER II

- **1.** Which of the following is NOT a key element of the definition of ethics?
  - (A) Reflective choice
  - (B) Moral principles
  - (C) Definitive conclusions
  - (D) Consequences of decisions

- **2.** How many calories are contained in a food material that contains 5gms of fat, 30gms of carbohydrates including 4gms of fiber, and 3gms of protein?
  - (A) 158 kCal
  - (B) 161 kCal
  - (C) 177 kCal
  - (D) 193 kCal

- **3.** Principles of management, whether in life or in Physical Education and Sport must be utilized in the light of the changing
  - (A) Economics trends
  - (B) Social conditions
  - (C) Values of life
  - (D) Behavioural patterns

**4.** Given below are two statements, one labelled as *Assertion (A)* and the other as *Reason (R)*:

Assertion (A): The process of socialization is the design of life through which the child develops.

Reason (R): The transmission of culture is a part of socialization.

In the context of the above two statements, which one of the following is correct?

- (A) Both (A) and (R) are right, but (R) is not the correct explanation of (A).
- (B) Both (A) and (R) are right, but (R) is the correct explanation of (A).
- (C) (A) is wrong but (R) is right.
- (D) (A) is right but (R) is wrong.
- **5.** The rear-foot motion called pronation results from a combination of
  - (A) Abduction, eversion and dorsiflexion
  - (B) Adduction, inversion and plantar flexion
  - (C) Abduction, eversion and plantar flexion
  - (D) Adduction, inversion and dorsiflexion
- **6.** A disease transferred from mother to child through placenta is
  - (A) German measles
  - (B) Syphilis
  - (C) AIDS
  - (D) All the above

	7.	Match	List 1	with	List	II a	and	select	the	correct
an	swe	r from	the co	des gi	ven l	oelo	w:			

List-I		Lis	t-11					
(Terminology)		(Ga	me)					
(a) Chopping		(i) Ten	nis					
(b) Deuce		(ii) Voll	(ii) Vollyball					
(c) Block		(iii) Judo	0					
(d) Matte		(iv) Tab	le-Tennis					
Codes:								
(a)	(b)	(c)	(d)					
(A) (iii)	(iv)	(i)	(ii)					
(B) (ii)	(iv)	(i)	(iii)					
(C) (iv)	(i)	(ii)	(iii)					
(D) (ii)	(i)	(iv)	(iii)					

- **8.** Which of the following is Projective Technique for measuring personality?
  - (A) 5 point rating scale
  - (B) Interview
  - (C) Thematic Apperception Test
  - (D) 16 PF
- **9.** The correlation between Tests X and Y is 0.42. The correlation between Tests X and Z is 0.84. Which of the following statements is correct?
  - (A) The relationship between X and Z is twice as strong as the relationship between X and
  - (B) The relationship between X and Z is stronger than the relationship between X and Y.
  - (C) A student receiving a higher score on Test X will receive a higher score on Test Z than on Test Y.
  - (D) Tests X and Z measure the same ability.
  - 10. 'Hunch' Back is also known as
    - (A) Back pain
    - (B) Scoliosis
    - (C) Lordosis
    - (D) Kyphosis

- 11. A curve is bilaterally symmetrical but when the height of the curve is more peaked than the normal curve refers as
  - (A) Skewed
  - (B) Leptokurtic
  - (C) Mesokurtic
  - (D) Polygon
  - 12. Perceptual abilities and fitness are included in
    - (A) Organic domain
    - (B) Affective domain
    - (C) Psychomotor domain
    - (D) Cognitive domain
  - **13.** The Sagittal plane divides the body
    - (A) Length-wise
    - (B) Limb-wise

(D)

(ii)

- (C) Into upper and lower halves
- (D) Into left and right sides
- **14.** Match *List I* with *List II* and select the correct answer from the codes given below:

List-I (	Гerm)		List-	II (Meaning	g)
(a) Opinio	onaire	(i)	A graph social st	nic diagram ructure	ı Oİ
(b) Socios	gram	(ii)		dardised t g qualita ion	
(c) Check	-list	(iii)	A sort naire	of questi	on-
(d) Rating	g scale	(iv)	A printe	d list of itm	es
Codes:					
	(a)	(b)	(c)	(d)	
(A)	(iii)	(i)	(iv)	(ii)	
(B)	(ii)	(iii)	(i)	(iv)	
(C)	(iii)	(i)	(ii)	(iv)	

(i)

(iv)

(iii)

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- 15. "The relationship between the soundness of the body and the activities of the mind is subtle and complex. Much is not yet understood. But we do know what the Greeks knew that intelligence and skill can only function at the peak of their capacity when the body is healthy and strong"— who said this?
  - (A) John Dewey
  - (B) E. F. Zeigler
  - (C) Rousseau
  - (D) J. F. Kennedy
- **16.** When lactate accumulates in the muscle cell, which of the following effects is observed?
  - (A) Slowing of enzymatic reactions
  - (B) Increased muscle contractility
  - (C) Accumulation of lactate dehydrogenese
  - (D) Increased pH of the muscle
- **17.** Which of the following training variables work inversely with each other?
  - (A) Volume and duration
  - (B) Mode and intensity
  - (C) Mode and frequency
  - (D) Intensity and duration
- **18.** Which of the following is NOT a principle of lesson planning?
  - (A) Age and sex
  - (B) Progression
  - (C) Warming up
  - (D) Teacher Experience
- **19.** To determine effectiveness of a programme, psychological theories provide a conceptual framework for assessment and
  - (A) Measurement.
  - (B) Management of programme.
  - (C) Application of cognitive-behavioural or motivational principles.
  - (D) All of the above

- **20.** What is the cardiac output at maximal exercise with a heart rate of 200 beats/minute and stroke volume of 100 ml/beat?
  - (A) 5 *l*/min
  - (B) 10 l/min
  - (C) 20 *l*/min
  - (D) 20 ml/min
- **21.** Approximately what percentage of scores fall within one standard deviation of the mean in a normal distribution?
  - (A) 68%
  - (B) 95%
  - (C) 34%
  - (D) 99%
- **22.** Which of the following is the most rapidly available source of energy within a muscle cell?
  - (A) Creatine Kinase
  - (B) Adenylate Kinase
  - (C) Glycogen
  - (D) Phosphocreative
- **23.** Limited flexibility of which of the muscle groups increases the risk of low back pain?
  - (A) Hip flexors
  - (B) Quadriceps
  - (C) Hamstrings
  - (D) Rectus abdominis
- **24.** Of the four major goals ascribed to all research, which one is odd man out?
  - (A) Description
  - (B) Prediction
  - (C) Replication
  - (D) Explanation

- 25. Concerning metabolism during exercise
  - (A) fats are the main source of energy.
  - (B) the contribution made by anaerobic exercise increases.
  - (C) carbohydrates provide the main source of energy.
  - (D) plasma glucose falls significantly during a period of exercise at half the maximal rate lasting for 2 hours.
- **26.** Muscle fibres that can produce a large amount of tension in a very short period of time but fatigue quickly are referred to as
  - (A) Slow-twitch glycolytic
  - (B) Fast-twitch glycolytic
  - (C) Fast-twitch oxidative
  - (D) Slow-twitch oxidative
- **27.** Match *List I* with *List II* and select the correct option using the codes given below:

List-I

I. Epistemology

1. Studies related to values

II. Axiology

2. Deals with knowledge and truth

III. Ethics

3. Attempts to validate the accuracy of idea

IV. Logic

4. Deals with moral and

nature of good conduct

### Codes:

	I	II	III	IV
(A)	1	2	3	4
(B)	2	1	4	3
(C)	3	2	4	1
(D)	4	3	2	1

- 28. Research on AIDS in the future needs to see that
  - (A) It continues to be a disease of young gaymen.
  - (B) It is no longer the problem it once was beacuse of protease inhibitors.
  - (C) It is mainly a problem for drug abusers.
  - (D) It is a family issue.

- **29.** Uncoordinated gait, headache, dizziness, vomiting and elevated temperature followed by the outdoor activities are signs and symptoms of
  - (A) Acute exposure to cold
  - (B) Hypothermia
  - (C) Heat exhaustion and heat stroke
  - (D) Acute altitude sickness
- **30.** Which of the following movements occur in the horizontal plane?
  - (A) Eversion-inversion of the foot
  - (B) Pronation-supination of the forearm
  - (C) Hyper adduction of the arm
  - (D) All the above movements
  - 31. Mental Development includes
    - (A) External and internal organs.
    - (B) Reasoning and thinking.
    - (C) Ethical and moral aspects.
    - (D) All of the above
- **32.** How many pairs of 'false ribs' are there in human skeleton?
  - (A) 3 pairs
  - (B) 4 pairs
  - (C) 5 pairs
  - (D) 2 pairs
- **33.** An ECG would be useful for determining a patient's
  - (A) Heart murmur
  - (B) Stroke volume
  - (C) Cardiac output
  - (D) Blockage of conduction of electrical signals between the atria and ventricles

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<b>34.</b> Match answer from				lect the correct	<b>38.</b> Select the characteristic which is NOT included in Top spin				
	(Measurem			t-II (Game)	(A) High pressure is built on top of the ball.				
(a) 44 ft	(a) 44 ft. × 20 ft. (i) (b) 78 ft. × 36 ft. (ii)		Basketb Badmin Tennis	all	<ul><li>(B) The Magnus force acts in the upward direction.</li><li>(C) The ball drops to the ground rapidly.</li></ul>				
(d) 28 m			Kho-kho	O	(D) The ball rotates around on horizontal axis.				
Codes		, ,			(b) The ball lotates around on nortzontal axis.				
(A) (B) (C)	(a) (iii) (ii) (ii)	(b) (iv) (iv) (iii)	(c) (i) (i) (iv)	(d) (ii) (iii) (i)	<b>39.</b> Which of the following is the first step in sports programme?				
(D)	(ii)	(i)	(iv)	(iii)	(A) Directing				
					(B) Staffing				
					(C) Planning				
					(D) Budgeting				
(A) C (B) E (C) S	o-metacarpa Condyloid jo Ball and soc Saddle joint Gliding join	oint ket joi		mpie oi	<ul> <li>40. Statistics is a numerical quantity obtained from</li> <li>(A) Population</li> <li>(B) Sample</li> <li>(C) Data</li> <li>(D) Observations</li> </ul>				
<b>36.</b> Thick of (A) A		n skele	tal muscl	e are composed	41. Who first described that a body immersed in fluid with a force equal to the weight of the displaced				
` ′	Ayosin				fluid? (A) Einstein				
	Troponin				(B) Freud				
	Tropomn Tropomyosi	n			(C) Whitehead				
( <i>D</i> )	ropomy osi				(D) Archimedes				
<b>37.</b> Which to find out the				graphs is used	<b>42.</b> The branch which deals with the study of defense mechanism against disease is called				
	requency p	olygor	1		(A) Parasitology				
	Histogram	_			(B) Epidemiology				
	Cumulative		ncy polys	gon	(C) Immunology				
(D) E	Bar diagram				(D) Physiology				

- **43.** Read each of the following two statements Assertion(A) and Reason(R) and indicate your answer using codes given below:
- Assertion (A): Managers make judgement about employee's dispositions in various situations.

Reason (R): Inferences are drawn on the basis of observations.

#### Codes:

- (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 a correct explanation of (A).
- (C) (A) is true but (R) is false.
- (D) (A) is false but (R) is true.

## **44.** Golgi tendon organs

- (A) Are located in the tendons joining muscle and bone.
- (B) Monitor the strength of muscle contraction.
- (C) Are associated with monosynaptic reflexes.
- (D) Both (A) and (B)
- **45.** Which of the following strategies can help a person to maintain his or her physical activity or exercise programme?
  - (A) Understanding the benefits of physical activity
  - (B) Checking appointment schedules
  - (C) Reduce barriers to exercise
  - (D) All of the above
- **46.** The ability to see the enterprise/sports organisation as a whole is called
  - (A) Human skill
  - (B) Conceptual skill
  - (C) Mechanical skill
  - (D) None of the above

- **47.** Which of the following mode of exercises reduce the potential for musculo-skeletal injury?
  - (A) Cycling
  - (B) Walking
  - (C) Skiing
  - (D) Swiming
- **48.** Name the first European Country to make physical education as an integral part of education.
  - (A) Germany
  - (B) Sweden
  - (C) Denmark
  - (D) Greece
- **49.** A test that requires a school boy or girl to run in and around closely spaced obstacles can be considered to have face validity as a/an
  - (A) Hurdle test
  - (B) Obstacle test
  - (C) Explosive power test
  - (D) Agility test
  - **50.** Proceedings are considered as
    - (A) Conventional documents
    - (B) Primary documents
    - (C) Secondary documents
    - (D) Tertiary documents
- **51.** Which of the following blood pressure readings would characterize hypertension in the adult?
  - (A) 100/60 mmHg
  - (B) 110/70 mmHg
  - (C) 120/80 mmHg
  - (D) 140/90 mmHg

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- **52.** What is the approximate number of skeletal muscles in human body?
  - (A) 400
  - (B) 500
  - (C) 560
  - (D) 660
- **53.** The history of Physical Education is virtually a story of man's
  - (A) Physical performance and achievement.
  - (B) Physical prowess exemplified by him.
  - (C) Battles and wars fought by him.
  - (D) Culture and civilization as a whole.
- **54.** In acquisition of motor skill 'Trial and Error' is an important
  - (A) Philisophy
  - (B) Principle
  - (C) Paradigm
  - (D) Theory
- **55.** ELISA-a test is helpful for the detection of which of the followings?
  - (A) Leprosy
  - (B) Cancer
  - (C) AIDS
  - (D) Malaria
- **56.** Evaluation gives a meaningful status to measurements only when it is judged against
  - (A) Some standard.
  - (B) Day to day experience.
  - (C) Some reliable theory.
  - (D) Human understanding.

- **57.** When an imaginary horizontal plane passes through the midsection of the body dividing it into upper and lower portions, it is called
  - (A) Sagittal
  - (B) Frontal
  - (C) Transvserse
  - (D) Superior
- **58.** Which is the number one predictor of early disease, disability and premature death?
  - (A) Dropping out of High School
  - (B) Working around environmental pollutants
  - (C) Failing to go for regular annual medical checks
  - (D) Low Socioeconomic status
- **59.** The Review of Literature in Research report is emphasized to
  - (A) Show depth of knowledge and wisdom.
  - (B) Substantiate research hypothesis.
  - (C) Make a critical and balanced analysis of 'why' in research.
  - (D) Apprise the reader of what others have done already.
  - **60.** The five A's of counseling are
    - (A) Address, Assess, Advise, Assist and Arrange follow-up
    - (B) Address, Assess, Advise, Assist and Act
    - (C) Address, Assess, Act, Assist and Arrange follow-up
    - (D) Act, Assess, Advise, Assist and Arrange follow-up
  - **61.** Purposive sampling is a type of
    - (A) Multistage sampling
    - (B) Cluster Random sampling
    - (C) Probability sampling
    - (D) Non-probability sampling

<b>62.</b>	Match	List I	with	List	II	and	select	the	correc	t
answe	r from t	he coo	les gi	ven b	el	ow:				

List-I (Term)

List-II (Meaning)

- (a) Load Intensity (i) The way body 'programmes' muscles to remember particular activities, movements or skills.
- (b) Training Load (ii) Rate or pace at which physical activity(work) is performed.
- (c) Adaptation (iii) The temporal relationship between phases of load and recovery in a training session.
- (d) Load Density (iv) Physiological and psychological demands put on the organism through movement.

Codes:

- (a) (b) (c) (d) (A) (iii) (i) (ii) (iv) (B) (ii) (iv) (i) (iii) (C) (iv) (i) (ii) (iii) (D) (ii) (i) (iv) (iii)
- **63.** The key principles of weight reduction dieting are
  - (A) select low calorie, high-nutrients foods.
  - (B) use only tasteless food.
  - (C) avoid strenuous activity.
  - (D) Both (A) and (C)
- **64.** Which of the following terms desceibes the ability of a force to cause rotation of a lever?
  - (A) Centre of gravity
  - (B) Base of support
  - (C) Stability
  - (D) Torque

- **65.** Which of the following expectations students have from group learning?
  - (A) To get appreciation from the group
  - (B) To distribute the work equally
  - (C) To ignore individual view point
  - (D) To attract isolated student towards the group
- **66.** Which of the following muscle groups is a prime mover for extension of the knee?
  - (A) Biceps femoris
  - (B) Biceps brachii
  - (C) Quadriceps femoris
  - (D) Gastrocnemius
- **67.** Who is considered as the Grandfather of German Gymnastics?
  - (A) Friedrich Jahn
  - (B) Adolph Spiess
  - (C) Guts Muths
  - (D) Per Henrick Ling
- **68.** Who of the following is considered as the end-product of education?
  - (A) Students
  - (B) Teachers
  - (C) Political Leaders
  - (D) Administrators
  - **69.** Bibliography given in a research report:
    - (A) Shows knowledge of the researcher.
    - (B) Helps those interested in further research.
    - (C) Has no relevance to research.
    - (D) All the above

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	When did India won its first Olympic Hockey							lect the co	orrect
gold?	(A) 1928	answer from the codes give List-I (Term)			List-II (Resea			rch)	
	(B) 1932		(a) Internal-external			(i)		phical rese	
	(C) 1936	()		riticism		(-)			
	(D) 1948	(b)	C	ause an	d effect	(ii)	Historic	al researcl	h
	(2) 1510						Survey		
				uestion	_		•	nental rese	arch
71.	At authoritarian level teaching is which of the	,	Со	des:					
follow	<del>-</del>				(a)	(b)	(c)	(d)	
	(A) Teacher Centered	(	(A)	)	(ii)	(iv)	(i)	(iii)	
	(B) Child Centered		<b>(B</b> )	)	(ii)	(iii)	(i)	(iv)	
	(C) Headmaster Centered	(	$(\mathbf{C})$	)	(ii)	(iii)	(iv)	(i)	
	(D) Experience based	(	(D)	)	(ii)	(i)	(iv)	(iii)	
	Which one of the following is NOT a major	answer	fr	om the o			elow:	lect the co	orrect
domai	n of Physical Education?		Lis			1		ist-II	
	(A) Teaching skill	1,	1	he mear	1	1.		of signific difference	
	(B) Instruction							ı two meai	
	(C) Inspection	II.	S	tandard	deviatio	on 2.		nt along	
72	(D) Research  Achievement motivation relates to						set of s of score and be	um of a cores, the es above volume which magnitud	sum which ch is
13.	(A) Need of the person.	III.	t-	test		3.	_	are root o	
	(B) Knowledge of the person.						variance		
	(C) Experience of the person.	IV.	V	ariabilit	y	4.		ncept of	. 1-4-
	(D) Aptitude of the person.						to a sing descript express	g a set of gle number or that es the degree number	r or ree to
	The site where most of the ATP is generated in a						differ.		
cell is	the	1	Co	des:	_				
	(A) Plasma membrane				I	II	III	IV	
	(B) Endoplasmic reticulum		(A) (B)		1 1	2 3	3 2	4 4	
	(C) Golgi apparatus		( <b>D</b> )		2	3	1	4	
	(D) Mitochondria		(D		2	4	1	3	
		•							

- 77. Choose the right statement:
  - In the exercise training programmes of children
  - (A) Strenght training should be avoided for safety reasons.
  - (B) A short term general conditioning and a long-term strenght-training programme should be developed.
  - (C) An increase in rate of training intensity more than 10% (approx.) per week causes overuse injuries of bone.
  - (D) An exercise-induced asthma causes inability to lead active life.
- **78.** Which of the following is NOT a level of teaching learning?
  - (A) Differential level
  - (B) Memory level
  - (C) Reflective level
  - (D) Understanding level
- **79.** From the following answers identity the one which is NOT innovating in sports management?
  - (A) Directing
  - (B) Influencing
  - (C) Searching
  - (D) Evolving
- **80.** Through which of the following methods, desirable channels are provided for the release of emotional energy?
  - (A) Inhibition
  - (B) Sublimation
  - (C) Catharsis
  - (D) Repression

- **81.** After ACh attaches to its receptors at the neuromuscular junction, the next step is:
  - (A) Sodium channels open
  - (B) Calcium binds to regulatory proteins on the thin filaments
  - (C) Cross bridges attach
  - (D) ATP is hydrolyzed
- **82.** Which among the stadiums NOT situated in Russia?
  - (A) Spartak Stadium
  - (B) Luzhniki Stadium
  - (C) Saint Petersburg Stadium
  - (D) RCDE Stadium
- **83.** Match *List I* with *List II* and select the correct answer from the codes given below:

List-II List-II

- (a) A maximum amount of force a muscle or muscle groups can exert
- (i) Queens College Step Test
- (b) Measures response time
- (ii) Roger's Strength Test
- (c) The ability of blood (iii) Stork Stand Test vessels, heart and lungs to take in transport and utilize oxygen
- (d) Ability of the body to (iv) Nelson Speed of equilibrium under Movement Test static and dynamic conditions

Codes:

	(a)	(b)	(c)	(d)
(A)	(iii)	(i)	(iv)	(ii)
(B)	(ii)	(iv)	(i)	(iii)
(C)	(iii)	(i)	(ii)	(iv)
(D)	(;;)	(i)	(iv)	(;;;)

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**84.** The ratio of blood cells to total blood volume is **89.** Match List I with List II and select the correct option using the codes given below: known as (A) Henry's Law List-II List-I (B) Hyperthermia I. Drugs that depress the (1) Creatine central nervous system (C) Total count II. The substance that (2) Beta blockers (D) Hematocrit enhances intense, brief exercise performance like weight lifting 85. Excessive bleeding from an injury is due to III. Substances which (3) Anabolic steroid deficiency of reduce blood pressure (A) Vitamin A IV. Despite their ability (4) Barbiturates to enhance performance (B) Vitamin B they can lead to high (C) Vitamin K blood pressure, liver (D) Vitamin E damage and infertility Codes: Ι H IIIIV **86.** In which type of lever the fulcrum is in between 2 (A) 1 4 3 weight and force? 3 2 (B) 4 3 (A) 1st Class 3 (C) 4 2 1 (B) 2nd Class 2 3 (D) 1 (C) 3rd Class (D) All the above 90. Select correct option for the blank space (?) in the given question. 87. The increase in chest cavity volume leads to an 2nd quartile = 5th decile = 50th percentile = ? internal lung pressure decrease follows (A) Mode (A) Charle's Law (B) Harmonic mean (B) Boyle's Law (C) Mean (C) Frank-Starling Law (D) Median (D) None of the above 91. Calcium, phosphorus, sodium, potassium and 88. Movements possible in condyloid joints are sulphur which are essential for functioning of our body (A) Flexion and extension are examples of (B) Circumduction (A) Macrominerals (B) Microminerals (C) Flexion, extension, abduction, adduction (C) Proteins (D) Flexion, extension, abduction, adduction and

(D) Vitamins

circumduction

- **92.** Which of the following is considered as hydrogen carrier in cellular respiration?
  - (A) Acetyl CoA
  - (B) Phosphofructokinase
  - (C) Nicotinamide adenine dinucleotide
  - (D) Adenosine Triphosphate

- **93.** In contrast both-alternating application of cold and warm water for getting rid of swelling on an injured part, should be done for one of the following durations
  - (A) Five minutes in cold water and seven minutes in the warm water.
  - (B) Two minutes in cold water and thirty seconds in the warm water and is repeated a number of times.
  - (C) Four minutes in warm water and one minute in the cold water and is repeated a number of times.
  - (D) Three minutes in warm water alternated with Four minutes in the cold.

- **94.** Which of the following modalities is used for treating acute and chronic pain?
  - (A) Microwave diathermy
  - (B) Ultrasound
  - (C) Contrast bath
  - (D) TENS

- **95.** Movements that occur primarily in the sagittal plane are
  - (A) Adduction, lateral flexion, flexion
  - (B) Flexion, extension, dorsiflexion
  - (C) Flexion, extension, internal rotation
  - (D) Supination and pronation
  - **96.** Which of the following is not a vector?
    - (A) Work
    - (B) Angular velocity
    - (C) Displacement
    - (D) Momentum
- **97.** Which of the following test/instrument reflects the most scientific way of testing leg strength?
  - (A) Standing broad jump
  - (B) Burpy

(A)

(B)

(C)

(D)

(iv)

(ii)

(iii)

(ii)

- (C) Dynamometer
- (D) Squats and dips
- **98.** Match *List I* with *List II* and select the correct answer from the codes given below:

List-I (Term)

(a) Independent variable
(b) Dependent variable
(c) Extraneous variable
(d) Control variable
(ii) Room temperature
(iii) Blood pressure
(iv) Training

Codes:

(a) (b) (c) (d)

(iii)

(iii)

(i)

(i)

(i)

(i)

(iv)

(iv)

(ii)

(iv)

(ii)

(iii)

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**99.** Read each of the following two statements Assertion(A) and Reason(R) and indicate your answer using codes given below:

Assertion (A): Vivekananda said "All knowledge that the world have ever received comes from the mind; the infinite library of the universe is in your mind".

Reason (R): Education is the realisation of the knowledge inherent in man.

### Codes:

- (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.

**100.** Given below are two statements, one labelled as Assertion(A) and other labelled as Reason(R):

Assertion (A): For rotation around horizontal axis, a diver assumes tuck position.

Reason (R): Radius of rotation has direct relation with angular velocity.

In the context of the above two statements, which one of the following is correct?

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are true and (R) is not the correct explanation of (A).
- (C) (A) is true but (R) is false.
- (D) (A) is false but (R) is true.

# **ROUGH WORK**