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मध्यप्रदेश लोक सेवा आयोग  
रेसीडेन्सी एरिया  
इन्दौर

क्रमांक : ३७२/ ६९/ २०११/ प-९

इन्दौर, दिनांक-०१.०९.२०१८

अंतिम उत्तर कुंजी

—:: विज्ञप्ति ::—

ग्रंथपाल एवं क्रीडा अधिकारी परीक्षा-2018 के संदर्भ में आयोग द्वारा जारी विज्ञप्ति क्रमांक 295/ ६९/ २०११/ प-९ दिनांक 18.08.2018 के अंतर्गत प्रावधिक उत्तर कुंजी परीक्षा परिणाम बनाने के पूर्व आयोग की वेबसाईट पर प्रकाशित की गई थी। अभ्यर्थियों से प्राप्त ऑनलाईन आपत्तियों का विषय विशेषज्ञों द्वारा परीक्षण किया गया तथा समस्त ऑनलाईन आपत्तियों का सूक्ष्म परीक्षण करने के पश्चात विषय- क्रीडा अधिकारी प्रश्न पत्र की अनुशसित संशोधित अंतिम उत्तर कुंजी बनाई गई है। यह अंतिम उत्तर कुंजी है। इस अंतिम उत्तर कुंजी के आधार पर परीक्षा परिणाम तैयार किया जायेगा। अतः अब इस संबंध में अभ्यार्थियों की किसी प्रकार की आपत्तियों/ अभ्यावेदनों पर विचार नहीं किया जायेगा। अभ्यर्थी आयोग की वेबसाईट पर अपना रोल नंबर एवं प्रवेश पत्र पर दिये गये पासवर्ड की सहायता से लॉग-इन कर अपनी रिस्पांस शीट का अवलोकन कर सकते हैं। यह विज्ञप्ति आयोग की वेबसाईट [www.mppsc.nic.in](http://www.mppsc.nic.in), [www.mppsc.com](http://www.mppsc.com) & [www.mppscdemo.in](http://www.mppscdemo.in) पर दिनांक 01. 09.2018 से उपलब्ध है।

(डॉ. पी.सी. यादव) २०१८  
परीक्षा नियंत्रक

# Librarian/ Sports Officer Exam 2018

## (Final Answer Key)

### Sports officer

Q.No: 1	Type of research that involves the manipulation of treatments in an attempt to establish cause and effect relationships is known as?
A	<b>Qualitative Research</b>
B	<b>Experimental Research</b>
C	<b>Descriptive Research</b>
D	<b>Epidemiological Research</b>

Q.No: 2	Type of research that involves in depth study and evaluation of available information in an attempt to explain complex phenomena is known as -
A	<b>Philosophic Research</b>
B	<b>Historical Research</b>
C	<b>Descriptive Research</b>
D	<b>Analytical Research</b>

Q.No: 3	List of resources that provides a brief description of the nature and scope of each article or book is-
A	<b>Indexed bibliography</b>
B	<b>Annotated bibliography</b>
C	<b>Critical bibliography</b>
D	<b>Abstract bibliography</b>

Q.No: 4	Using ideas, concepts, writings or drawings of others as your own is known as -
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A	<b>Falsification</b>
B	<b>Dual publication</b>
C	<b>Plagiarism</b>
D	<b>Copy right</b>

Q.No: 5	Test based on data assumptions of normal distribution, equal variance and independence of observation is known as -
A	<b>Non-parametric statistical Test</b>
B	<b>Parametric statistical Test</b>
C	<b>Distribution - Free statistical Test</b>
D	<b>Probability Statistical Test</b>

Q.No: 6	If O is observation and X is treatment , then the following experimental design is O <sub>1</sub> X <sub>2</sub> O <sub>2</sub> X <sub>2</sub> O <sub>3</sub>
A	<b>One - group Pretest Post-test Design</b>
B	<b>Repeated Measure Design</b>
C	<b>Static Group Comparison Design</b>
D	<b>Pre-Test Post-Test Randomized Design</b>

Q.No: 7	To examine effects of more than one independent variable at a time in a single experiment, the research worker use
A	<b>Rotation group Design</b>
B	<b>Pretest - Posttest Randomized Design</b>
C	<b>Factorial Design</b>
D	<b>Repeated Measure Design</b>

Q.No: 8	A technique of literature review that contains a definitive methodology and quantifies the results of various studies to
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	standard metric that allows the use of statistical techniques as a means of analysis is known as
<b>A</b>	<b>Meta Analysis</b>
<b>B</b>	<b>Deductive Analysis</b>
<b>C</b>	<b>Super Analysis</b>
<b>D</b>	<b>Critical Analysis</b>

Q.No: 9	Type of paper and pencil survey used in descriptive survey and used in descriptive research in which information is obtained by asking participant to respond to questions rather than by observing their behavior is known as
A	<b>Interview</b>
B	<b>Survey</b>
<b>C</b>	<b>Questionnaire</b>
D	<b>Categorical response</b>

Q.No: 10	Research in which samples of participants from different age group are selected in order to assess the effects of maturation is known as
A	<b>Meta- Analysis</b>
<b>B</b>	<b>Cross - Sectional Study</b>
C	<b>Normative Analysis</b>
D	<b>Case - Study</b>

Q.No: 11	Sit-ups , pull-ups, baskets or goals made, no. of hits or strikes bear a numerical value about them are an examples of .....
<b>A</b>	<b>Discrete variables</b>
B	<b>Continuous variables</b>
C	<b>Moderate variables</b>
D	<b>Intervening variables</b>

Q.No: 12	Philosophical research is also known as
A	<b>Empirical Research</b>
B	<b>Conceptual Research</b>
C	<b>Analytical Research</b>
D	<b>Qualitative Research</b>

Q.No: 13	Variable over which a researcher has control is
A	<b>Independent</b>
B	<b>Dependent</b>
C	<b>Moderate</b>
D	<b>Continuous</b>

Q.No: 14	What is the meaning of op.cit in footnotes?
A	<b>And other</b>
B	<b>Previously cited</b>
C	<b>Paragraph</b>
D	<b>Same Person</b>

Q.No: 15	Synopsis is also called as -
A	<b>Research Proposal</b>
B	<b>Methodology</b>
C	<b>Summary</b>
D	<b>Abstract</b>

Q.No: 16	Which type of Research solves an immediate particular problem?
A	<b>Basic Research</b>
B	<b>Action Research</b>

C	<b>Applied Research</b>
D	<b>Histrocial Research</b>

Q.No: 17 Related group design is also known as -

- A Equated or Parallel group design**
- B Factorial Group design**
- C Repeated Measure design**
- D Random Group design**

Q.No: 18 The basic standard score that converts raw scores to units of standard deviation in which the mean is zero and standard deviation is 1.0 is known as-

- A T-Score**
- B Hull-Score**
- C Z-Score**
- D Sigma Score**

Q.No: 19 Condition beyond the control of the Researcher is known as.

- A Limitation**
- B Delimitation**
- C Research ethics**
- D Significance of problem**

Q.No: 20 A positive or negative environmental stimulus that motivates behaviour is known as -

- A Learning**
- B Reinforcement**
- C Incentive**
- D Punishment**

Q.No: 21	The magnitude of type -II error is known as
<b>A</b>	<b>Beta</b>
B	<b>Alpha</b>
C	<b>Effect size</b>
D	<b>Power</b>

Q.No: 22	The level of probability set by the experimenter prior to the study is known as
A	<b>Beta</b>
<b>B</b>	<b>Alpha</b>
C	<b>Power</b>
D	<b>H<sub>0</sub></b>

Q.No: 23	Class interval: 70 - 74 65 - 69 60 - 64 The above class interval is an example of -
<b>A</b>	<b>Inclusive Method</b>
B	<b>Exclusive Method</b>
C	<b>Pure Method</b>
D	<b>Representation Method</b>

Q.No: 24	Quartile deviation is a measure of variability taken about
A	<b>Mean</b>
<b>B</b>	<b>Median</b>
C	<b>Mode</b>
D	<b>Deviation</b>

Q.No: 25	In normal curve , the area of the curve that falls within the limit of $\pm 1$ standard Deviation is
<b>A</b>	<b>68.26%</b>
B	<b>62.86%</b>
C	<b>66.28%</b>
D	<b>62.68%</b>

Q.No: 26	Which of the following is not an assumption underlying Pearson's Product Movement method in the computation of the correlation coefficient?
A	<b>Linearity of relationship</b>
B	<b>Homoscedasticity</b>
C	<b>Continuity of the variables</b>
<b>D</b>	<b>MultiModuler distribution</b>

Q.No: 27	F- ratio is equal to -
<b>A</b>	<b>Between-groups variance/Within- group variance</b>
B	<b>Within-group variance/Between-groups variance</b>
C	<b>Between group variance + Within group variance.</b>
<b>D</b>	<b>Sum of square within group/Sum of square between group</b>

Q.No: 28	After selecting the text, the Keyboard shortcut for Bigger font is
<b>A</b>	<b>Ctrl + Shift + +</b>
<b>B</b>	<b>Ctrl + Shift +&gt;</b>
C	<b>Ctrl + Shift +A</b>
<b>D</b>	<b>Ctrl + B</b>

Q.No: 29	The positive square root of the average of the squares deviation of all scores from their mean is known as
A	<b>Mean Deviation</b>
B	<b>Quartile Deviation</b>
C	<b>Standard Deviation</b>
D	<b>Coefficient Deviation</b>

Q.No: 30	In positively skewed distribution, mean, median and mode are related as:
A	<b>Mean = Median = Mode</b>
B	<b>Mean = Median &gt; Mode</b>
C	<b>Mode &lt; Median &lt; Mean</b>
D	<b>Median &gt; Mean = Mode</b>

Q.No: 31	The point of inflection at normal curve occurs at -
A	<b><math>\pm 3</math> Standard deviation</b>
B	<b><math>\pm 2</math> Standard deviation</b>
C	<b><math>\pm 1</math> Standard deviation</b>
D	<b><math>\pm 0</math> Standard deviation</b>

Q.No: 32	In a distribution, if value of Kurtosis is greater than 0.263 then the curve is
A	<b>Normal</b>
B	<b>LeptoKurtic</b>
C	<b>MesoKurtic</b>
D	<b>PlatyKurtic</b>

Q.No: 33	Most reliable central tendency is
A	<b>Mean</b>

B	<b>Median</b>
C	<b>Mode</b>
D	<b>Standard deviation</b>

Q.No: 34	In Normal Curve the value of Kurtosis is -
<b>A</b>	<b>0.263</b>
B	<b>0.362</b>
C	<b>0.632</b>
D	<b>0.326</b>

Q.No: 35	The concept of standard Deviation is introduced by
<b>A</b>	<b>Karl Pearson</b>
B	<b>Fisher</b>
C	<b>Spearman</b>
D	<b>Gauss</b>

Q.No: 36	The range of correlation between variables is -
<b>A</b>	<b>-1 to +1</b>
B	<b>-0.1 to +0. 1</b>
C	<b>0 to 1</b>
D	<b>0.1 to 1.0</b>

Q.No: 37	Which of the following is a test of Significance ?
<b>A</b>	<b>Z - test</b>
B	<b>Sigma Test</b>
<b>C</b>	<b>t - test</b>
D	<b>Hull Test</b>

Q.No: 38	The full form of SPSS
<b>A</b>	<b>Statistical Package for the social science</b>
B	<b>Social science Package for Statistics</b>
C	<b>Statistics Program for the social studies</b>
D	<b>Statistical Program for the social studies</b>

Q.No: 39	The meaning of CPU is
<b>A</b>	<b>Central Processing Unit</b>
B	<b>Central Control Unit</b>
C	<b>Control Program Unit</b>
D	<b>Central Program unit</b>

Q.No: 40	Fartlek training is specifically used for the development of -
A	<b>Speed</b>
<b>B</b>	<b>Endurance</b>
C	<b>Flexibility</b>
D	<b>Coordinative ability</b>

Q.No: 41	The longest training cycle is -
<b>A</b>	<b>Macro cycle</b>
B	<b>Micro cycle</b>
C	<b>Giga Cycle</b>
D	<b>Crab cycle</b>

Q.No: 42	Which of the following is not a principle of training ?
A	<b>Principle of continuity</b>

B	<b>Principle of progressive load</b>
C	<b>Principle of plan and systematic training</b>
<b>D</b>	<b>Principle of heirarchy</b>

Q.No: 43	Static strength is also known as -
<b>A</b>	<b>Isometric strength</b>
B	<b>Isotonic strength</b>
C	<b>Isokinetic strength</b>
D	<b>Isosometric strength</b>

Q.No: 44	Relative strength is calculated by -
A	<b>Minimum strength / Body weight</b>
B	<b>Optimum strength / height</b>
C	<b>Minimum strength x maximum strength</b>
<b>D</b>	<b>Maximum strength / Body weight</b>

Q.No: 45	The two major components of Training load are -
A	<b>Load and performance</b>
<b>B</b>	<b>Intensity and volume</b>
C	<b>Volume and load</b>
D	<b>Density and Performance</b>

Q.No: 46	Ballistic method is used to develop -
A	<b>Coordinative ability</b>
B	<b>Endurance</b>
<b>C</b>	<b>Flexibility</b>
D	<b>Reaction time</b>

Q.No: 47 The cash prize in Eklavya award is -

**A 10,000**

**B 20,000**

**C 30,000**

**D 40,000**

**Question Deleted**

Q.No: 48 The cash prize associated with Rajiv Gandhi Khel Ratna Award is -

**A 10,00,000**

**B 9,00,000**

**C 8,00,000**

**D 7,50,000**

Q.No: 49 Build up competition is also known as :-

**A Main competition**

**B Training competition**

**C Amature competition**

**D Price money competition**

Q.No: 50 For improving acceleration ability the load parameters are:-

**A Intensity - 70 to 80% , Duration - 5 to 8 sec**

**B Intensity - 75 to 85% , Duration - 7 to 10 sec**

**C Intensity - 80 to 85% , Duration - 3 to 5 sec**

**D Intensity - Maximum , Duration - 4 to 6 sec**

Q.No: 51 The ability to do movement involving large number of muscles, at a slow pace for prolonged period is known as-

A	<b>General Endurance</b>
B	<b>Basic Endurance</b>
C	<b>Specific Endurance</b>
D	<b>Long time Endurance</b>

Q.No: 52	For improving lactic acid tolerance the training load should be
A	<b>Intensity about 60% , Duration 10 sec. to 30 sec., Repetitions - 5 to 6 .</b>
B	<b>Intensity - Maximum, Duration 10 to 30 sec, Repetitions - 20 to 25 .</b>
C	<b>Intensity - About 90% , Duration 20 sec to 2 min., Repetitions - 3 to 4 .</b>
D	<b>Intensity - Maximum, Duration 2 min. to 3 min., Repetitions - 5 to 6 .</b>

Q.No: 53	Carbohydrate loading is effective for
A	<b>Anaerobic events up to 30sec.</b>
B	<b>Anaerobic events up to 1 to 2 min.</b>
C	<b>Endurance performance 5 to 10 min.</b>
D	<b>Endurance performance more than 30 min.</b>

Q.No: 54	Increased muscle glycogen achieved due to carbohydrate loading is retained by the body for a maximum period of-
A	<b>24 hrs</b>
B	<b>24 to 36 hours</b>
C	<b>1 - 2 days</b>
D	<b>2 - 4 days</b>

Q.No: 55 70 - 80 % resistance in the intensity zone of strength training is considered -	
A	<b>Light</b>
B	<b>Medium</b>
C	<b>Sub - maximum</b>
D	<b>Maximum</b>

Q.No: 56 Intensity of training load is indicated by the symbol -	
A	<b>%</b>
B	<b>@</b>
C	<b>*</b>
D	<b>&amp;</b>

Q.No: 57 The ability to overcome resistance with high speed is	
A	<b>Maximum strength</b>
B	<b>Explosive strength</b>
C	<b>Endurance strength</b>
D	<b>Strength strength</b>

Q.No: 58 During contraction when the length of muscle increases it is called	
A	<b>Eccentric contraction</b>
B	<b>Concentric contraction</b>
C	<b>Auxo - tonic contraction</b>
D	<b>Static - Muscle contraction</b>

Q.No: 59 The ability to maintain maximum speed for maximum possible duration or distance is	
A	<b>Speed duration</b>

<b>B</b>	<b>Locomotor Ability</b>
<b>C</b>	<b>Movement Speed</b>
<b>D</b>	<b>Acceleration Ability</b>

Q.No: 60	If reliability coefficient of a skill test is between 0.75 to 0.79 , then the reliability of the test is
<b>A</b>	<b>Very good</b>
<b>B</b>	<b>Good</b>
<b>C</b>	<b>Acceptable</b>
<b>D</b>	<b>Poor</b>

Q.No: 61	Which of the following is not a test item of Barrow Motor ability test ?
<b>A</b>	<b>Standing Broad Jump</b>
<b>B</b>	<b>Zig - Zag Run</b>
<b>C</b>	<b>60 - yard dash</b>
<b>D</b>	<b>Six - pound medicine ball put</b>

**Question Deleted**

Q.No: 62	An instrument for recording the work done by a muscle or group of muscle is known as
<b>A</b>	<b>Ergo graph</b>
<b>B</b>	<b>Stediometer</b>
<b>C</b>	<b>Dynamo meter</b>
<b>D</b>	<b>Mano meter</b>

Q.No: 63	The degree of uniformity with which various persons score same tests is known as
<b>A</b>	<b>Reliability</b>

<b>B</b>	<b>Objectivity</b>
<b>C</b>	<b>Validity</b>
<b>D</b>	<b>Parallel form Reliability</b>

Q.No: 64	Which of the following is not a test item of Oregon Motor Fitness Test ?
A	<b>Standing broad Jump</b>
B	<b>Floor - Push - ups</b>
C	<b>Sit - ups</b>
<b>D</b>	<b>Zig-Zag run</b>

Q.No: 65	Which of the following is not a test item of Indiana Motor Fitness Test for College men ?
A	<b>Pull - ups</b>
B	<b>Floor - Push - ups</b>
<b>C</b>	<b>Sit - ups</b>
D	<b>Vertical - Jump</b>

Q.No: 66	Wet spirometer is used to measure -
<b>A</b>	<b>Lung capacity</b>
B	<b>Heart capacity</b>
C	<b>Muscular tension</b>
D	<b>Bone strength</b>

Q.No: 67	Spearman - Brown Prophecy formula is used to predict
A	<b>Reliability of the Half test on the basis of whole test.</b>
<b>B</b>	<b>Reliability of whole test on the basis of half test.</b>

Q.No: 68 2024 Summer Olympic games will be held at -

**A Paris**

**B Tokyo**

**C Bejing**

**D Los Angeles**

Q.No: 69 In Broer - Miller Tennis test, rope is stretched above the net at a height of .

**A 4 feet**

**B 5 feet**

**C 6 feet**

**D 7 feet**

Q.No: 70 Which of the following is not a test item of IOWA Posture Test ?

**A Foot Mechanics**

**B Standing**

**C Stooping**

**D Toe touch**

Q.No: 71 Mc Call score is

**A Z - score**

**B Sigma - score**

**C Hull - scale**

**D T - Score**

Q.No: 72	The dimension of basketball court is -
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**A      28m X 15m**

**B      28m X 14m**

**C      26m X 15m**

**D      28m X 16m**

Q.No: 73	The inaugural match of FIFA world cup 2018 was played between -
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**A      Russia and Saudi Arabia**

**B      Russia and Uruguay**

**C      Russia and Egypt**

**D      Egypt and Uruguay**

Q.No: 74	Which of the following is not a criteria for the selection of Test ?
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**A      Objectivity**

**B      Validity**

**C      Reliability**

**D      Subjectivity**

Q.No: 75	Which of the following is not a method of measuring reliability
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**A      Test Retest**

**B      Split half**

**C      Parallel form**

**D      Chi - square**

Q.No: 76	Which of the following is not a test item of J. C. R test ?
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**A      Vertical jump**

**B      Chin-ups**

**C      Sit ups**

D **Shuttle Run**

**Question Deleted**

Q.No: 77 Sit and Reach test is used to measure -

A **Muscular strength**

B **Cardio vascular endurance**

**C Flexibility**

D **Power**

Q.No: 78 Which of the following is test battery of Johnson Basket ball ability Test -

**A Field goal shooting, throw for accuracy and dribbling**

B **Foot work,throw for accuracy and dribbling**

C **Field goal shooting,dribbling and dodging**

D **Dribbling, shooting for accuracy, dodging and throwing**

Q.No: 79 Which is not a test item of SAI hockey test -

A **Shooting in target**

B **Balancing the ball**

C **Moving with the ball**

**D Scooping in the target**

Q.No: 80 The psychoanalysis method was propounded by -

A **Adler**

B **Eysenck**

**C Freud**

D **Thorndike**

Q.No: 81	Who is known as the father of sports psychology ?
<b>A</b>	<b>Colman Griffith</b>
B	<b>Robert Singer</b>
C	<b>Cratty</b>
D	<b>Williams</b>

Q.No: 82	Surplus energy theory of play is propounded by -
<b>A</b>	<b>Von Schiller</b>
B	<b>Carl Groos</b>
C	<b>Stanley hall</b>
D	<b>White Patrick</b>

Q.No: 83	Problem solving comes under -
<b>A</b>	<b>Cognitive learning</b>
B	<b>Affective learning</b>
C	<b>Effective learning</b>
D	<b>Spontaneous learning</b>

Q.No: 84	In sports psychology mental practice means
<b>A</b>	<b>Mental planning</b>
<b>B</b>	<b>Mental rehearsal</b>
C	<b>Mental strategy</b>
D	<b>Mental image</b>

Q.No: 85	Sociology of physical education is -
<b>A</b>	<b>A branch of Anthropology</b>

B	<b>A study of the society</b>
C	<b>An analysis of sociological processes involved in the institutions of physical education</b>
D	<b>A science which studies primitives of societies</b>

Q.No: 86	Son of a rickshaw puller struggles and becomes an olympian. This is an example of -
A	<b>Social stratification</b>
B	<b>Social adjustment</b>
C	<b>Social cohesion</b>
D	<b>Social mobility</b>

Q.No: 87	First central sports university in India is established at -
A	<b>Imphal</b>
B	<b>New Delhi</b>
C	<b>Bhopal</b>
D	<b>Shillong</b>

Q.No: 88	Pierre de Coubertin Medal is awarded for -
A	<b>Sportsmanship</b>
B	<b>Sports achievement</b>
C	<b>Talented athletes</b>
D	<b>Disciplined team</b>

Q.No: 89	Who gave the self efficacy theory of personality -
A	<b>Carl Rogers</b>
B	<b>Georg Kelly</b>
C	<b>Abraham Maslow</b>

Q.No: 90	Olympic flag is based on a model designed by Pierre de Coubertin in -
<b>A</b>	<b>1914</b>
B	<b>1915</b>
C	<b>1916</b>
D	<b>1917</b>

Q.No: 91	Who produced the catharsis Theory of Play ?
<b>A</b>	<b>Aristole</b>
B	<b>Plato</b>
C	<b>Bernard</b>
D	<b>Karl Groos</b>

Q.No: 92	Three second rule is associated with which of the following game ?
A	<b>Badminton</b>
B	<b>Ice hockey</b>
C	<b>Basketball</b>
D	<b>Table Tennis</b>

Q.No: 93	In learning , the law of effective is given by -
A	<b>Pavlov</b>
<b>B</b>	<b>Thorndike</b>
C	<b>Kohler</b>
D	<b>Watson</b>

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Q.No: 94 Psychology is a science of

**A Human behavior**

**B Human work**

**C Human Personality**

**D Human action**

Q.No: 95 Which of the following is not a law of learning proposed by E. L. Thorndike?

**A Law of Readiness**

**B Law of exercise**

**C Law of effect**

**D Law of action**

Q.No: 96 Which of the following is not a theory for transfer of training?

**A Identical Elements theory**

**B Two Factor Theory**

**C Theory of conscious ideals**

**D Theory of Basic elements**

Q.No: 97 According to Big five personal traits , a person high in neuroticism shall not possess one of the following -

**A Emotionally unstable**

**B Moody**

**C Anxious**

**D Assertive**

Q.No: 98 Which law of learning is also called the law of use and disuse?

**A Law of Effect**

<b>B</b>	<b>Law of Exercise</b>
<b>C</b>	<b>Law of readiness</b>
<b>D</b>	<b>Law of intimacy</b>

Q.No: 99	Through which of the following methods, desirable channels are provided to release the emotional energy?
<b>A</b>	<b>Sublimation</b>
<b>B</b>	<b>Inhibition</b>
<b>C</b>	<b>Repression</b>
<b>D</b>	<b>Catharsis</b>

Q.No: 100	Which of the following is not the key concept of development of group dynamics?
<b>A</b>	<b>Conforming</b>
<b>B</b>	<b>Storming</b>
<b>C</b>	<b>Forming</b>
<b>D</b>	<b>Developing</b>

Q.No: 101	Thyroid gland is situated at -
<b>A</b>	<b>At the top of each Kidney</b>
<b>B</b>	<b>Below the stomach</b>
<b>C</b>	<b>Pelvic cavity</b>
<b>D</b>	<b>Throat</b>

Q.No: 102	In which part of body Sartorius muscle is situated?
<b>A</b>	<b>Thigh</b>
<b>B</b>	<b>Upper arm</b>
<b>C</b>	<b>Lower arm</b>

Q.No: 103 The heart muscle is called -

- A **Pericardium**
- B **Endocardium**
- C Myocardium**
- D **Epithelium**

Q.No: 104 Which is the most rare blood group?

- A **A Rh+**
- B AB Rh+**
- C AB Rh-**
- D **B Rh-**

Q.No: 105 Energy containing organic chemicals formed as a result of the incomplete breakdown of fat is called -

- A **Ketosis**
- B Ketones**
- C **Lactic acid**
- D **Liposis**

Q.No: 106 Highly nutritious pulses, especially rich in carotene and some vitamin - B are

- A **Niacin**
- B Lentils**
- C **Pica**
- D **Saponins**

Q.No: 107	Researches have shown that exercise training causes decrease in (i)HDL (ii)LDL (iii) Total Blood cholesterol (iv) Triglycerides
A	<b>(i), (iii) &amp; (iv)</b>
B	<b>(i) &amp; (iv)</b>
C	<b>(ii) &amp; (iv)</b>
<b>D</b>	<b>(ii), (iii) &amp; (iv)</b>

Q.No: 108	which of the following hormone is secreted by the Posterior lobe of Pituitary gland ?
A	<b>Growth Hormone</b>
B	<b>Thyroid - Stimulating Hormone</b>
<b>C</b>	<b>Antidiuratic Hormone</b>
D	<b>Prolactin</b>

Q.No: 109	A trained person exhibit elevated hormone response during exercise for.
A	<b>Testosterone</b>
B	<b>Insulin</b>
C	<b>Prolactin</b>
<b>D</b>	<b>Cortisol</b>

Q.No: 110	A trained person exhibits depressed values for which of the following hormone during exercise?
A	<b>Aldosterone</b>
B	<b>ACTH</b>
<b>C</b>	<b>Testosterone</b>
D	<b>Angiotensin</b>

Q.No: 111	Amphetamines are
<b>A</b>	<b>Stimulant</b>
B	<b>Lipoprotein</b>
C	<b>Anabolic steroid</b>
D	<b>Buffering Agent</b>

Q.No: 112	Immediate responses to altitude training does not include
<b>A</b>	<b>Hyperventilation</b>
B	<b>Body fluids become more alkaline</b>
C	<b>Increase in sub maximal heart rate</b>
<b>D</b>	<b>Maximum heart rate is lowered</b>

Q.No: 113	Food in the presence of O <sub>2</sub> is broken down to CO <sub>2</sub> and H <sub>2</sub> O with liberation of chemical energy by a metabolic process known as
<b>A</b>	<b>Respiration</b>
B	<b>Anaerobic glycolysis</b>
C	<b>Aerobic glycolysis</b>
<b>D</b>	<b>Metabolism</b>

Q.No: 114	Net production of ATP from a stearic Acid (18 - carbon chain fatty acids ) is
<b>A</b>	<b>147</b>
B	<b>140</b>
C	<b>135</b>
<b>D</b>	<b>144</b>

Q.No: 115	The study of the physical laws that govern blood flow is known as
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A	<b>Blood dynamics</b>
B	<b>Haemo dynamics</b>
C	<b>Heart dynamics</b>
D	<b>Cardiac ability</b>

Q.No: 116	The percent saturation of Hb with O <sub>2</sub> (% SO <sub>2</sub> ) is calculated by
A	$\frac{\text{O}_2 \text{ actually combined with Hb}}{\text{O}_2 \text{ capacity of Hb}} \times 100$
B	$\frac{\text{O}_2 \text{ capacity of Hb}}{\text{O}_2 \text{ actually combined with Hb}} \times 100$
C	$\frac{\text{O}_2 \text{ capacity of Hb}}{\text{Total O}_2 \text{ in the blood}} \times 100$
D	$\frac{\text{Total O}_2 \text{ in the blood}}{\text{O}_2 \text{ capacity of Hb}} \times 100$

Q.No: 117	Skeletal muscle fasciculus are covered with
A	<b>Endomysium</b>
B	<b>Epimysium</b>
C	<b>Perimysium</b>
D	<b>Endo - epimysium</b>

Q.No: 118	Where is Glenoid cavity found in human body ?
A	<b>Ulna</b>
B	<b>Scapula</b>
C	<b>Sternum</b>
D	<b>Acetabulum</b>

Q.No: 119	Largest part of human Brain is
<b>A</b>	<b>Cerebrum</b>
B	<b>Pituitary Gland</b>
C	<b>Visual lobe</b>
D	<b>Motor Unit</b>

Q.No: 120	In which City the pull of gravity affects the most in the sports performance?
A	<b>Beijing</b>
B	<b>Moscow</b>
<b>C</b>	<b>Mexico</b>
D	<b>Paris</b>

Q.No: 121	Step down the mechanical phases of Kicking
<b>A</b>	<b>Stance, Back lift, Kicking, follow through</b>
B	<b>Back lift, stance , Kicking, follow through</b>
C	<b>Kicking , Back lift, stance , follow through</b>
D	<b>Back lift, kicking, stance, follow through</b>

Q.No: 122	Mechanics is the branch of
A	<b>Kinesiology</b>
B	<b>Sport Biomechanics</b>
<b>C</b>	<b>Physics</b>
D	<b>Movement analysis</b>

Q.No: 123	Change in place or position of an object or body is called

A	<b>Force</b>
<b>B</b>	<b>Motion</b>
C	<b>Friction</b>
D	<b>Momentum</b>

Q.No: 124	Newton's First law of Motion is
<b>A</b>	<b>Law of Inertia</b>
B	<b>Law of Acceleration</b>
C	<b>Law of Action and Reaction</b>
D	<b>Law of Displacement</b>

Q.No: 125	Which of the following events does not involve projection
A	<b>Javelin Throw</b>
B	<b>Shot put</b>
C	<b>Discuss Throw</b>
<b>D</b>	<b>20 km walk</b>

Q.No: 126	Force of rotation is called
A	<b>Lever</b>
<b>B</b>	<b>Torque</b>
C	<b>Fulcrum</b>
D	<b>Gravity</b>

Q.No: 127	Kinematics is the science of -
A	<b>Friction</b>
<b>B</b>	<b>Motion</b>
C	<b>Force</b>

Q.No: 128	The force resisting the relative motion of surface sliding against each other is called
<b>A</b>	<b>Friction</b>
B	<b>Coupling</b>
C	<b>Impulse</b>
D	<b>Drag</b>

Q.No: 129	Which of the following muscle is not present on the posterior side of glenohumeral joint ?
A	<b>Posterior Deltoid</b>
B	<b>Infraspinatus</b>
C	<b>Teres Minor</b>
<b>D</b>	<b>Biceps</b>

Q.No: 130	Which of the following ligament is situated within the knee joint capsule ?
A	<b>Tibial collateral ligament</b>
B	<b>Oblique popliteal ligament</b>
<b>C</b>	<b>Anterior cruciate ligament</b>
D	<b>Transverse ligment</b>

Q.No: 131	Which of the following is not an example of Rectilinear Motion?
A	<b>Rope climbing</b>
B	<b>100m sprint</b>
C	<b>Jab in boxing</b>
<b>D</b>	<b>Discuss throw</b>

Q.No: 132	<p>Which of the following are correct?</p> <p>(i) Kinetic Energy = <math>1/2 mv^2</math>          (ii) Potential Energy = <math>1/2 mgh</math>          (iii) Work = Force / Distance          (iv) Power = work / time</p>
<b>A</b>	<b>Only (i) &amp; (iv) are correct</b>
<b>B</b>	<b>Only (i), (ii) &amp; (iv) are correct</b>
<b>C</b>	<b>Only (ii) &amp; (iii) are correct</b>
<b>D</b>	<b>All (i) , (ii), (iii) &amp; (iv) are correct</b>

Q.No: 133	<p>Factors determining rolling friction are</p> <p>(i)Nature of ball and surface          (ii)Weight of ball          (iii) Diameter of ball          (iv)Air pressure of ball          (v)Surface tension</p>
<b>A</b>	<b>(i), (ii) &amp; (v)</b>
<b>B</b>	<b>(ii), (iii), (iv) &amp;(v)</b>
<b>C</b>	<b>(i), (ii), (iv) &amp; (v)</b>
<b>D</b>	<b>(i), (ii),(iii) &amp;(iv)</b>

Q.No: 134	Coronal plane divides the body into -
<b>A</b>	<b>Right and left halves</b>
<b>B</b>	<b>Anterior and Posterior halves</b>
<b>C</b>	<b>Upper and lower halves</b>
<b>D</b>	<b>Medial and lateral halves</b>

Q.No: 135	Adduction of the humerous is not done by
<b>A</b>	<b>Latissimus Dorsi</b>

B	<b>Teres Major</b>
C	<b>Sternal portion of pectoralis major</b>
<b>D</b>	<b>Supraspinatus</b>

Q.No: 136	Muscle found on the anterior part of hip joint doesn't include
A	<b>Iliopso</b>
B	<b>Pectineus</b>
C	<b>Tensor Fasciac latae</b>
<b>D</b>	<b>Gracillis</b>

Q.No: 137	Which of the following is / are correct? (i) Speed is a scalar quantity (ii) Displacement is a vector quantity (iii) Average Acceleration is a vector quantity (iv) Weight is a vector quantity
A	<b>Only (i) is correct.</b>
B	<b>Only (i) , (ii) and (iii) are correct .</b>
C	<b>Only (ii),(iii) and (iv) are correct .</b>
<b>D</b>	<b>All (i), (ii), (iii) and (iv) are correct.</b>

Q.No: 138	Which of the following is/are correct? (i) weight = Mass x Acceleration due to gravity (ii) Momentum = Mass x Velocity (iii) Impulse = Force x Time
A	<b>Only (i) is correct</b>
B	<b>Only (i) &amp; (ii) are correct</b>
C	<b>Only (ii) &amp; (iii) are correct</b>
<b>D</b>	<b>All (i), (ii) &amp; (iii) are correct</b>

Q.No: 139	Which is not a dimension of Eysneck's personality test?
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A	<b>Psychoticisum</b>
B	<b>Extravertion</b>
C	<b>Neuroticisum</b>
<b>D</b>	<b>Intelligence</b>

Q.No: 140	Which is not a symptom that indicates towards over load?
A	<b>Colour of skin strongly red</b>
B	<b>Feeling weakness in muscle</b>
C	<b>Profused sweating</b>
<b>D</b>	<b>Pleasant feeling</b>

Q.No: 141	AIDS is caused by -
A	<b>T.B.</b>
B	<b>Hepatitis B</b>
C	<b>Leprosy</b>
<b>D</b>	<b>HIV virus</b>

Q.No: 142	Sun light is source of which Vitamin ?
A	<b>Vitamin A</b>
B	<b>Vitamin B</b>
C	<b>Vitamin D</b>
D	<b>Vitamin C</b>

Q.No: 143	Major Constituent of balance diet is .....
<b>A</b>	<b>Carbohydrate</b>
B	<b>Protein</b>
C	<b>Vitamin</b>

Q.No: 144	Whirlpool is also called
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<b>A</b>	<b>Hydrotherapy</b>
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<b>B</b>	<b>Thermotherapy</b>
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<b>C</b>	<b>Cryotherapy</b>
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<b>D</b>	<b>Electrotherapy</b>
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Q.No: 145	Kyphosis is also known as-
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<b>A</b>	<b>Curved Back</b>
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<b>B</b>	<b>Hallow Back</b>
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<b>C</b>	<b>Round Shoulder</b>
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<b>D</b>	<b>Lateral Back</b>
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Q.No: 146	What is used by the wrestler to increase the muscle mass?
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<b>A</b>	<b>Anabolic steroids</b>
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<b>B</b>	<b>Stimulant</b>
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<b>C</b>	<b>Narcotics</b>
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<b>D</b>	<b>Dieuretic</b>
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Q.No: 147	Scurvy is caused due to the deficiency of -
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<b>A</b>	<b>Tocopherol</b>
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<b>B</b>	<b>Retinol</b>
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<b>C</b>	<b>Riboflavin</b>
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<b>D</b>	<b>Ascorbic Acid</b>
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Q.No: 148	Recommended Dietary Allowances of vitamin A for Adult are -
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A	<b>0.2 mg</b>
B	<b>0.4 mg</b>
C	<b>0.5 mg</b>
<b>D</b>	<b>1.0 mg</b>

Q.No: 149	Muscle cramps are caused due to the deficiency of -
A	<b>Calcium</b>
B	<b>Phosphorus</b>
<b>C</b>	<b>Sodium</b>
D	<b>Magnesium</b>

Q.No: 150	Rapid heart rate at resting position is -
A	<b>Systocardia</b>
B	<b>Bradycardia</b>
<b>C</b>	<b>Tachycardia</b>
D	<b>Accardia</b>

Q.No: 151	The "thermostat" for temperature regulation of human body is located in the -
A	<b>Medulla Oblongata</b>
B	<b>Peripheral thermal receptors</b>
<b>C</b>	<b>Hypothalamus</b>
D	<b>Spinal cord</b>

Q.No: 152	Scoliosis commonly develops in the area -
A	<b>Neck</b>
B	<b>Lumber</b>
<b>C</b>	<b>Between thoracic and lumber</b>

Q.No: 153	The deformity of thoracic spine becoming C-shaped curve is known as -
A	<b>Lordosis</b>
<b>B</b>	<b>Kyphosis</b>
C	<b>Scoliosis</b>
D	<b>Osteoporosis</b>

Q.No: 154	An injury to a ligament resulting from overstress is known as -
<b>A</b>	<b>Sprain</b>
B	<b>Strain</b>
C	<b>Contusion</b>
D	<b>Haematoma</b>

Q.No: 155	Type of fracture in which a bone is broken into several pieces is
A	<b>Green stick fracture</b>
B	<b>Compound fracture</b>
<b>C</b>	<b>Comminuted fracture</b>
D	<b>Simple fracture</b>

Q.No: 156	Which of the following is fat soluble vitamin ?
A	<b>Ascorbic Acid</b>
<b>B</b>	<b>Tocopherol</b>
C	<b>Thiamine</b>
D	<b>Pantothenic Acid</b>

Q.No: 157	The main purpose of the pre-game meal is to provide the athlete with adequate -
A	<b>Protein</b>
B	<b>Carbohydrate</b>
C	<b>Vitamin</b>
D	<b>Fat</b>

Q.No: 158	Prior to energy release from fat, the triglyceride molecule breaks down into Glycerol and fatty acids in the presence of -
A	<b>Coenzyme A</b>
B	<b>Acetyl COA</b>
C	<b>Lipase</b>
D	<b>Coenzyme B</b>

Q.No: 159	When athletes use several different types of steroids at the same time it is known as -
A	<b>Cycling</b>
B	<b>Stacking</b>
C	<b>Pyramiding</b>
D	<b>Mixing</b>

Q.No: 160	Which of the following vitamin does not posses antioxidant property ?
A	<b>Beta carotene</b>
B	<b>Vitamin A</b>
C	<b>Vitamin B1</b>
D	<b>Vitamin C</b>

Q.No: 161	Maulana Abul Kalam Azad running trophy was instituted in the year
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<b>A</b>	<b>1956-57</b>
<b>B</b>	<b>1948-49</b>
<b>C</b>	<b>1962-63</b>
<b>D</b>	<b>1960-61</b>

Q.No: 162	The weight of men's javelin is _____
<b>A</b>	<b>600 grams</b>
<b>B</b>	<b>700 grams</b>
<b>C</b>	<b>750 grams</b>
<b>D</b>	<b>800 grams</b>

Q.No: 163	The sector angle of shot put is .....
<b>A</b>	<b>34.92<sup>0</sup></b>
<b>B</b>	<b>43.92<sup>0</sup></b>
<b>C</b>	<b>36.92<sup>0</sup></b>
<b>D</b>	<b>32.92<sup>0</sup></b>

Q.No: 164	In 4 x 100 meter relay race , the acceleration zone is .....
<b>A</b>	<b>8 meters</b>
<b>B</b>	<b>10 meters</b>
<b>C</b>	<b>12 meters</b>
<b>D</b>	<b>14 meters</b>

Q.No: 165	Who defined Physical Education as "Physical education is that phase of the whole field of education that deals with big muscle activities and their related responses"
<b>A</b>	<b>Thomas Wood</b>

B	<b>H. C. Buck</b>
C	<b>J. B. Nash</b>
D	<b>C. A. Bucher</b>

Q.No: 166	Developmental objectives of physical Education (i) organic (ii) neuromuscular (iii) interpretive and (iv) emotional were given by
A	<b>Cowell aand Schein</b>
B	<b>J. R. Sherman</b>
C	<b>C. A. Bucher</b>
D	<b>J. B. Nash</b>

Q.No: 167	In the first modern Olympic game the number of sports were
A	<b>9</b>
B	<b>10</b>
C	<b>11</b>
D	<b>12</b>

Q.No: 168	Lakshmibai National college of Physical Education was established in
A	<b>August 21 , 1960</b>
B	<b>July 21, 1961</b>
C	<b>July 17 , 1962</b>
D	<b>August 17, 1957</b>

Q.No: 169	RajKumari Amrit Kaur coaching Scheme was started in the year
A	<b>1951</b>
B	<b>1952</b>
C	<b>1953</b>

Q.No: 170	Dronacharya Award was established in the year.
A	<b>1980</b>
B	<b>1981</b>
C	<b>1982</b>
<b>D</b>	<b>1985</b>

Q.No: 171	Which of the following is/are correct ? (i)Badminton Racket Frame length 680 mm and Width 230 mm (ii)Shuttle cock contains - 16 feathers (iii)The base of shuttle is 1.35 to 1.65 inches in diameter.
A	<b>Only (i) is correct</b>
B	<b>Only (ii) &amp;(iii) are correct</b>
<b>C</b>	<b>Only (i) &amp; (ii) are correct</b>
D	<b>All (i),(ii)&amp;(iii)are correct</b>

Q.No: 172	Which of the following is/are correct ? (i) Length of the cricket Pitch is 20.12 m (ii) Height of the cricket wicket is 72.2 cm (iii) Term "Lead - off " is related to cricket.
A	<b>Only (i) is correct</b>
<b>B</b>	<b>Only (i) &amp; (iii) are correct</b>
C	<b>Only (ii) &amp; (iii) are correct</b>
D	<b>Only (i) &amp; (ii) are correct</b>

Q.No: 173	Which of the following is/are Correct ? (i)Weight of the football is 430g to 460g. (ii)Circumference of football is 68cm to 72cm. (iii)The term "blind side" is related to football.
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A	<b>Only (i) is correct</b>
B	<b>Only (ii) is correct</b>
C	<b>Only (ii) &amp; (iii) are correct</b>
D	<b>Only (i) &amp; (iii) are correct</b>

Q.No: 174	Which of the following is/are correct about Kho - Kho ? (i)The distance between two adjacent squares is 250cm. (ii)The distance between Posts is 23.50m (iii)Circumference of the Post is 130 - 135 cm
A	<b>Only (i) is correct</b>
B	<b>Only (ii) is correct</b>
C	<b>Only (ii) &amp; (iii) are correct</b>
D	<b>Only (i) &amp; (iii) are correct</b>

Q.No: 175	There are Eight stages of Yoga to secure purity of body, mind and soul, out of these stages the meaning of yama is
A	<b>Meditation</b>
B	<b>Self - realization</b>
C	<b>Social discipline</b>
D	<b>Discipline of senses</b>

Q.No: 176	The meaning of Samadhi in yoga is
A	<b>Self realization</b>
B	<b>Individual discipline</b>
C	<b>Meditation</b>
D	<b>Breath control</b>

Q.No: 177	Which of the following asanas is not beneficial in High Blood Pressure ?

A	<b>Vajrasana</b>
B	<b>Siddahasana</b>
C	<b>Matsyasana</b>
<b>D</b>	<b>Pashchimottanasan</b>

Q.No: 178	Which of the following asanas is not beneficial in paralysis?
A	<b>Padmasana</b>
B	<b>Veerasana</b>
<b>C</b>	<b>Vajrasana</b>
D	<b>Parvatasan</b>

Q.No: 179	Sudhi Kirya, Dhauti is for
A	<b>Abdominal Massaging</b>
<b>B</b>	<b>Internal cleansing</b>
C	<b>Nasal cleansing</b>
D	<b>Yogic enema</b>

Q.No: 180	How many female participated in the 1900, Paris Olympics?
A	<b>12</b>
B	<b>20</b>
<b>C</b>	<b>22</b>
D	<b>24</b>

Q.No: 181	Olympic Motto term "ALTIUS" mean
A	<b>Faster</b>
B	<b>Stronger</b>
<b>C</b>	<b>Higher</b>
D	<b>Athlete</b>

Q.No: 182	Indian lawn Tennis player Leander Pace won bronze medal in Olympics in the year ?
<b>A</b>	<b>1996</b>
B	<b>2000</b>
C	<b>2004</b>
D	<b>2008</b>

Q.No: 183	The first common wealth games held in 1930 at
A	<b>Edmonton</b>
B	<b>Cardiff</b>
C	<b>Kingston</b>
<b>D</b>	<b>Hamilton</b>

Q.No: 184	The height of kho-kho pole is -
A	<b>130 cm.</b>
B	<b>115 cm.</b>
<b>C</b>	<b>120 cm.</b>
D	<b>128 cm.</b>

Q.No: 185	In 400 meter hurdle for women, the last hurdle in first lane will be placed .... meter from the starting line.
<b>A</b>	<b>360 meter</b>
B	<b>365 meter</b>
C	<b>370 meter</b>
D	<b>355 meter</b>

Q.No: 186	The lower edge of the goal post for men's soccer is _____ from floor .
<b>A</b>	<b>2.44 meter</b>
B	<b>2.42 meter</b>
C	<b>2.62 meter</b>
D	<b>2.34 meter</b>

Q.No: 187	In woman volleyball, the height of net is .....
A	<b>2.42 meter</b>
<b>B</b>	<b>2.24 meter</b>
C	<b>2.43 meter</b>
D	<b>2.45 meter</b>

Q.No: 188	The Uber cup is related to which sports ?
A	<b>Hockey women</b>
B	<b>Basket ball</b>
C	<b>Volley ball</b>
<b>D</b>	<b>Badminton</b>

Q.No: 189	2022 common wealth games will be organized at _____.
A	<b>Sydney</b>
<b>B</b>	<b>Burmingham</b>
C	<b>New York</b>
D	<b>Cape town</b>

Q.No: 190	How many matches will be played in knockout tournament if 23 teams are participating?
<b>A</b>	<b>22</b>

B	<b>21</b>
C	<b>23</b>
D	<b>24</b>

Q.No: 191	In which year commonwealth games were organized in India ?
<b>A</b>	<b>2010</b>
B	<b>1982</b>
C	<b>1980</b>
D	<b>2012</b>

Q.No: 192	Cash price for Eklavya Award is?
<b>A</b>	<b>10,000</b>
B	<b>20,000</b>
C	<b>30,000</b>
D	<b>40,000</b>

**Question Deleted**

Q.No: 193	India Celebrates its national sports day on -
<b>A</b>	<b>29 August</b>
B	<b>26 August</b>
C	<b>29 September</b>
D	<b>26 September</b>

Q.No: 194	Sphygmomanometer is used to measure
A	<b>Blood hemoglobin</b>
B	<b>Blood Cholesterol</b>
<b>C</b>	<b>Blood Pressure</b>
D	<b>Blood Volume</b>

Q.No: 195	Where was the resolution of celebrating international Yoga day passed?
A	<b>W.H.O</b>
<b>B</b>	<b>UN, General Assembly</b>
C	<b>I.O.C.</b>
D	<b>UNESCO</b>

Q.No: 196	Excessive bleeding is caused due to deficiency of ....
A	<b>Vitamin A</b>
B	<b>Vitamin B</b>
<b>C</b>	<b>Vitamin K</b>
D	<b>Vitamin E</b>

Q.No: 197	Sports Psychology is _____.
<b>A</b>	<b>Applied Psychology</b>
B	<b>Developmental Psychology</b>
C	<b>Clinical Psychology</b>
D	<b>Child Psychology</b>

Q.No: 198	Western region SAI Center is situated _____.
A	<b>Indore</b>
B	<b>Jaipur</b>
<b>C</b>	<b>Gandhinagar</b>
D	<b>Pune</b>

Q.No: 199	Capt. Roop Singh stadium is located in which city ?

A	<b>Bhopal</b>
B	<b>Jabalpur</b>
C	<b>Indore</b>
<b>D</b>	<b>Gwalior</b>

Q.No: 200	In 400m standard track,400 meter hurdle run, lane no.2 runner will get a stagger of -
<b>A</b>	<b>7.04 meter</b>
B	<b>7.67 meter</b>
C	<b>14.71 meter</b>
D	<b>3.52 meter</b>

