# NTSE STAGE – I (2020 – 21) (For Class – X) SCHOLASTIC APTITUDE TEST

# **QUESTION PAPER**

## PHYSICS

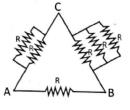
- 101. The sound of same pitch and loudness are "distinguished from one another by their (1) Wavelengths (2) Velocity
   (3) Quality (4) Tones
- 102. A water pumps lifts water from a level 10 m below the ground. The water is pumped at the rate of 30 kg/min with negligible velocity. Calculate the minimum power the pump should have to do this work.

(1) 49 J/s	(2) 490 J/s
(3) 500 J/s	(4) 48 J/s

- 103. Six identical resistors connected between points A, B and C as shown in diagram. The equivalent resistance would be maximum between.
  (1) A and B
  (2) B and C
  - (2) B and C (3) A and C
  - (4) Option (1), (2) & (3) are correct.
- 104. A particle of mass 0.3 kg is subjected to a force F = Kx with K = 15 N/m, what will be its acceleration if it is released from a point x = 20 cm. (1) 1 m/s<sup>2</sup>
  (2) 10 m/s<sup>2</sup>
  (3) 100 m/s<sup>2</sup>
  (4) 0.1 m/s<sup>2</sup>
- 105. An object is moving in a straight line. The velocity time graph is as shown below. Then(1) In part OA acceleration is increasing.
  - (2) In part AB acceleration is increasing.
  - (3) In part OA acceleration is decreasing.
  - (4) In part AB acceleration is decreasing.
- 106. A force of 100 N acts on a body so that the body acquire a velocity of 10 m/s after some time. Now the force of 100 N is replaced by another force F which decelerates the body and body come to the rest then.

(1) F > 100 N	(2) F < 100 N
(3) F = 100 N	(4) All options are possible

- 107. 2 points A and B are at electric potentials 10 V and 100 V respectively. A charge q is taken from A to B and 18 Joule of work is done. The value of q is
  (1) 2 Coulomb
  (2) 0.2 Coulomb
  (3) 20 Coulomb
  (4) 0.2 Coulomb
  - (3) 20 Coulomb (4) 0.02 Coulomb
- 108. Which of the following is NOT correct for magnetic filed lines?
  - (1) The direction of magnetic field lines outside the magnet is from north pole to south pole.
  - (2) The direction of magnetic field lines inside the magnet is from south pole to north pole.
  - (3) The degree of closeness of magnetic field lines tells the relatives strength of magnetic field.
  - (4) Magnetic field lines never form closed loop.



velocity

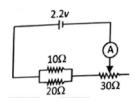
109. A car moving along straight line covers  $1/5^{th}$  of total distance with speed  $v_1$  and remaining part of distance with speed  $v_2$ . The average speed of car over entire distance is

(1) 
$$\frac{5v_1v_2}{v_2 + 4v_1}$$
 (2)  $\frac{4v_1v_2}{5v_1 + v_2}$  (3)  $\frac{5v_1v_2}{4v_2 + v_1}$  (4)  $\frac{4v_1v_2}{4v_1 + v_2}$ 

110. Light travels through a glass slab of thickness t and having refractive index n. If c is the velocity of light in vaccum then the time taken by light to travel this thickness of glass is

(1) 
$$\frac{t}{nc}$$
 (2)  $\frac{nt}{c}$  (3)  $\frac{n^2t}{c}$  (4)  $\frac{t}{n^2c}$ 

111. The resistance of rheostat shown in the figure is 0 – 30 Ω, Neglecting the resistance of ammeter and connecting wire the minimum and maximum currents through the ammeter will be
(1) (0.08 A, 0.33 A)
(2) (0.06A, 0.08A)
(3) (0.06 A, 0.33 A)
(4) (0.33 A, 0.09 A)



112. Three particles A, B and C are thrown from top of a building with same speed. A is thrown upwards, B is thrown downwards and C is thrown horizontally, they hit the ground with speed  $V_A$ ,  $V_B$  and  $V_C$  respectively then

(1) $V_{A} = V_{B} = V_{C}$	-	(2) $V_B > V_C > V_A$
(3) $V_A = V_B > V_C$		(4) $V_A > V_B = V_C$

113. An object of height 2.0 cm is placed on the principal axis of a concave mirror at a distance of 12 cm from the pole. If the image is inverted, real and 5 cm in height then location of the image and focal length of the mirror respectively are

(1) (–30 cm, +8.6 cm)	(2) (–30 cm, –8.6 cm)
(3) (+30 cm, +8.6 cm)	(4) (+30 cm, –8.6 cm)

#### CHEMISTRY

114.	When lead nitrate is heated a brown gas is evolved, the evolved gas is		
	(1) Dioxygen	(2) Nitrogen dioxide	
	(3) Nitrous oxide	(4) Dinitrogen	

(1) $(1)$	
(3) Pbl <sub>2</sub>	(4) Pbl <sub>4</sub>

- 116. Baking powder is a mixture of
  - (1) Sodium hydrogen carbonate and oxalic acid
  - (2) Sodium carbonate and tartaric acid
  - (3) Sodium hydrogen carbonate and tartaric acid
  - (4) Sodium carbonate and oxalic acid.
- 117. Aqua regia is a mixture of Conc. Hydrochloric acid & Conc. Nitric acid.

(1) 3 : 1	(2) 2 : 1
(3) 1 : 5	(4) 2 : 3

118.	$CH_3CH_2OH \xrightarrow{Conc.H_2SO_4}{443K} Products$	
	The products formed in the above reaction (1) Ethene and $H_2O$ (3) Ethane and $H_2O$	is/are (2) Ethyne and H <sub>2</sub> O (4) Methane and H <sub>2</sub> O
119.	Denatured alcohol is a mixture of (1) CH <sub>3</sub> OH and HCHO (3) C <sub>2</sub> H <sub>5</sub> OH and CH <sub>3</sub> OH	(2) CH <sub>3</sub> OH and CH <sub>3</sub> COOH (4) C <sub>2</sub> H <sub>5</sub> OH and CH <sub>3</sub> COOH
120.	For welding a mixture of oxygen and (1) Benzene (3) Methane	is burnt (2) Butane (4) Ethyne
121.	The following metals are arranged in the ir the correct option. (1) Be < Si < K < Al (3) K < Al < Si < Be	ncreasing order of their metallic character. Choose (2) Si < Be < Al < K (4) Be < Si < Al < K
122.	Which one of the following oxide is insolub (1) $Na_2O$ (3) $K_2O$	le in water? (2) CuO (4) CaO
123.	Which of the following oxide turns red litme $(1) SO_2$ (3) NO <sub>2</sub>	us into blue? (2) CO <sub>2</sub> (4) KO <sub>2</sub>
124.	Which one of the following is not a green h $(1) \text{ CH}_4$ $(3) \text{ CO}_2$	ouse gas? (2) O <sub>3</sub> (4) SO <sub>2</sub>
125.	Which of the following element does not sh (1) Phosphorus (3) Oxygen	now allotropy? (2) Sulphur (4) Aluminium
126.	Which one of the following will have the lar (1) 100 g of He (3) 100 g of li	rgest_number of atoms? (2) 100 g of Na (4) 100 g of Al

### BIOLOGY

- 127. Rearrange the following sentences and choose the correct option.
  - a. Breakdown of H<sub>2</sub>O into Hydrogen and Oxygen and Conversion of light energy into chemical energy
  - b. Reduction of carbon dioxide to carbohydrates.
  - c. Absorption of light energy by chlorophyll.
  - (1)  $a \rightarrow b \rightarrow c$ (2)  $c \rightarrow b \rightarrow a$ (3)  $c \rightarrow a \rightarrow b$ (4)  $a \rightarrow c \rightarrow b$

128. Deepak is trying to study flow of energy in an area and he made the following diagram for the same. How will you interpret his observations?



- (1) His observations and number of trophic levels are wrong.
- (2) His observations are correct but the number of trophic levels can be more.
- (3) His observations are wrong but number of trophic levels are correct.
- (4) His observations as well as number of trophic levels are correct.
- 129. UV rays cause cancer but in stratosphere the same UV rays are helping us, how?
  - (1) They divert harmful UV rays back to sun
  - (2) They convert oxygen in stratosphere into ozone.
  - (3) UV rays are not present in stratosphere.
  - (4) UV rays reach the earth surface then bounce back carrying ozone to stratosphere.
- 130. Match the following.

	Column-l		Column-II
(i)	Regeneration	(a)	Shoot
(ii)	Rhizophus	(b)	Pollen grain
(iii)	Plumule	(c)	Vegetative Propagation
(iv)	Rose	(d)	Planaria
(v)	Stigma	(e)	Spores

(1) i → a;	$ii \rightarrow e;$	iii $\rightarrow$ d;	$iv \rightarrow b$	$V\toC$
(2) i $\rightarrow$ b;	$ii \rightarrow d;$	iii → a;	$iv \rightarrow c$	$v \rightarrow e$
(3) i $\rightarrow$ b;	ii → a;	iii $\rightarrow$ d;	$iv \rightarrow c$	$v \rightarrow e$
(4) i $\rightarrow$ d;	$ii \rightarrow e;$	iii → a;	$iv \rightarrow c$	$v \rightarrow b$

131. The opening and closing of the stomata depends upon:-

- (1) Oxygen (2)
- (3) Carbon dioxide

(2) Temperature(4) Water in guard cells

132. Sonu performed an experiment to study dihybrid cross for round/wrinkled and yellow/green coloured seeds. He obtained 2432 seeds in total. What will be the number of seeds which are round and yellow?

(1) 1367	(2) 1356
(3) 1368	(4) 1438

133. The stakeholders of various forest products are:

(i)	People living near forests
(iii)	Nature lovers

- (ii) Government only
- (iv) Wild life
- (1) All options are correct
- (3) Only (ii) is incorrect

- (2) Only (i), (ii) and (iii) is correct
- (4) None of the option is correct.

134. Choose the correct sequence:

(1)	Pulmonary vein	$\rightarrow$ Pulmonary artery	$\rightarrow$ Left auricle	ightarrow Right ventricle
(2)	Pulmonary artery	$\rightarrow$ Right auricle	$\rightarrow$ Left ventricle	$\rightarrow$ Pulmonary vein
(3)	Right auricle	$\rightarrow$ Pulmonary artery	$\rightarrow$ Pulmonary vein	$\rightarrow$ Left ventricle
(1)	L off vontrialo	Dulmononuvoin	Dulmonon	O Dight ouriele

(4) Left ventricle  $\rightarrow$  Pulmonary vein  $\rightarrow$  Pulmonary artery  $\rightarrow$  Right auricle

135. Assertion (A): No carbon dioxide is released during the day in plants. Reason (R): Only photosynthesis occurs during the day.

- (1) 'A' is true and 'R' is false
- (2) 'A' is false and 'R' is true
- (3) Both 'A' and 'R' are false

(4) Both 'A' and 'R' are true but 'R' does not explain 'A'

136. Choose the non-biodegradable substance from the following:

- i. Carrot
- iii. Perfume spray bottle
- v. Papaya
- vii. Wooden stick
- (1) (ii), (iii), (vii), (viii)
- (3) (iii), (i), (v), (vii)

- ii. Glass bottle
- vi. Thermocol
- 137. Match the column I and column II and select correct option.

Column-l			Column-II
(A)	Ribosome	1.	ATP formation
(B)	Mitochondria	2.	Photosynthesis
(C)	Centriole	3.	Protein synthesis
(D)	Chloroplast	4.	Cell division

(1) $A \rightarrow 1$ ;	$B \rightarrow 2;$	$C \rightarrow 4;$	$D \rightarrow 2$
(2) $A \rightarrow 3$ ;	$B \rightarrow 1;$	$C \rightarrow 4;$	$D \rightarrow 2$
(3) $A \rightarrow 4$ ;	$B \rightarrow 3;$	$C \rightarrow 2;$	$D \rightarrow 1$
(4) $A \rightarrow 2$ ;	$B \rightarrow 1;$	$C \rightarrow 3;$	$D \rightarrow 4$

138. Which of the following is a barrier method of contraception?

- (1) Diaphragm (2) Contraceptive pills (3) Tubectomy (4) All of the above
- 139. Sperms are produced in the:-
  - (1) Seminiferous tubules
  - (3) Vas deferens

- (2) Interstitial cell
- (4) Prostate gland
- 140. Blood pressure is measured by an instrument called:-
  - (1) Barometer

- (2) Sphygmomanometer
- (4) Manometer

(3) Photometer

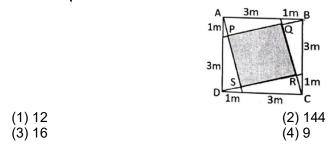
- iv. Rice bran
- (2) (ii), (iii), (vi), (viii)
- (4) (viii), (v), (i), (iii)
- viii. Ball pen refill

#### MATHEMATICS

- If  $\triangle ABC$  is an equilateral triangle such that A(2, 2) and centroid of the triangle is (-2, 2) then 141. find the length of its side. (1) 4 units (2) 6 units (3)  $4\sqrt{3}$  units (4) 9 units The sum of the n consecutive odd natural numbers starting from 5 is 60. Find the value of 142.  $(n^2 - n)$ . (1) 20(2) 30 (3) 42(4) 56 The sum of the first 'p' odd natural numbers is 100 & the sum of the first 'q' even natural 143. numbers is 90. Find the value of (p + q). (1) 18(2) 19 (4) 21(3) 20If  $x + \frac{1}{y} = 1$  and  $y + \frac{1}{z} = 1$ , then what is the value of  $\left(z + \frac{1}{x} + 1\right)$ 144. (2) 1 (4) 3 (1) 0 (3) 2If  $\sqrt[3]{p} + \sqrt[3]{q} + \sqrt[3]{r} = 0$  then the value of  $(p + q + r)^3$  is 145. (1) 3pqr (2) 9pqr (4) 0(3) 27pqr If  $a_1, a_2, a_3, \dots, a_n$  and  $b_1, b_2, b_3, \dots, b_n$  are two A.P.'s such that  $a_1b_1 = 120, a_2b_2 = 143, a_3b_3$ 146. = 154 then  $a_8b_8 =$ 
  - (1) 209 (2) 89 (3) 195 (4) 29
- 147. In a  $\triangle$ ABC, AX bisects BC and AX is also the angle bisector of angle A. If AB = 12 cm, BX = 3 cm, then what is the area of  $\triangle$ ABC.

(1) 9 cm <sup>2</sup>	(2) √2 cm²
(3) $9\sqrt{5}$ cm <sup>2</sup>	(4) $9\sqrt{15}$ cm <sup>2</sup>

148. If ABCD and PQRS are two squares, such that area of square PQRS is 'A' m<sup>2</sup>, then find the value of  $\sqrt{17 \text{ A}}$ .

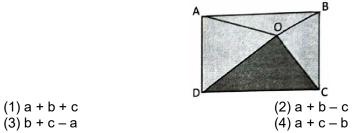


- 149. If  $\cos^2\theta + 2\sin^2\theta + 3\cos^2\theta + 4\sin^2\theta + \dots + 200\sin^2\theta = 10050$ , where  $\theta$  is an acute angle, find the value of  $(\sin\theta + 3\cos\theta)^2$ 
  - (1) 8 (2) 4 (3) 2 (4) 1

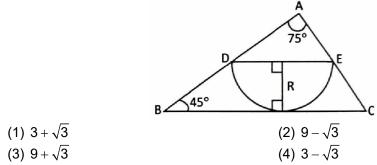
150. A 'p' m long wire is cut into two pieces one of which is bent into a circle and the other into a square enclosing the circle. What is the radius (in meter) of the circle?

(1) $\frac{p}{\pi + 4}$	(2) $\frac{2p}{\pi+4}$
(3) $\frac{p}{2\pi + 8}$	(4) $\frac{2p\pi}{\pi+4}$

151. In the figure, ABCD is a rectangle such that Area of  $\triangle AOB = a m^2$ , Area of  $\triangle AOD = b m^2$ , Area of  $\triangle COD = c m^2$ . Then the area of  $\triangle BOC$  (in m<sup>2</sup>) =



152. In ∆ABC, A semi-circle with DE as diameter is drawn such that BC = 26 m. the radius R (in meter) =



153. If the values of x in the roots of the equation  $p(\sin^2 x) + q(\sin x) + r = 0$  are complementary, then

(1) $p^2 = q(q + 2r)$	(2) $q^2 = p(p + 2r)$
(3) $r^2 = q(q + 2p)$	(4) $r^2 = p(q + 2p)$

154. The average age of all the 100 employees in an office is 29 years, where <sup>2</sup>/<sub>5</sub> employees are ladies. The ratio of average age of men to women is 5 : 7. The average age of female employees is:

(1) 18 years
(2) 35 years
(4) None of these

155. If,  $\frac{1}{a}, \frac{1}{b}, \frac{1}{c}$  are in A.P., then  $\frac{b+a}{b-a} + \frac{b+c}{b-c}$  equals (1) 1 (2) 2 (3)  $\frac{b-c}{a-b}$  (4)  $\frac{ab}{c}$ 

156. If (x + k) is a common factor of  $(x^2 + px + q)$  and  $(x^2 + lx + m)$ , then the value of k is: (1) l + p(3)  $\frac{l-p}{m-q}$ (4)  $\frac{m-q}{l-p}$  157. As a result of 40% hike in the price of rice per kg., a person is able to purchase 10 kg less rice for Rs.1400. What was the original price of rice per kg?
(1) Rs 50
(2) Rs 60

(1) Rs.50	(2) Rs.60
(3) Rs.40	(4) Rs.30

158. A man takes half time in rowing a certain distance downstream than upstream. What is the ratio of the speed of boat in still water to the speed of current?

(1) 1 : 2	(2) 2 : 1
(3) 1 : 3	(4) 3 : 1

159. The mean of a group of 20 consecutive natural numbers is M. What will be the percentage change in the mean when last six consecutive natural numbers are left from the group?

(1) $\frac{3M}{100}$ %	(2) $\frac{3}{M}$ %
(3) $\frac{300}{M}$ %	(4) $\frac{30}{M}$ %

160. One box contains four cards numbered 1, 3, 5 and 7 and another box contains four cards numbered as 2, 4, 6 and 8. One card is drawn from each box at random. The probability that the product of the numbers so drawn is more than 14 is:

(1) $\frac{1}{2}$	(2) $\frac{7}{10}$
(3) $\frac{3}{8}$	(4) <u>5</u>

#### SOCIAL SCIENCE

161.	"God save our Noble King" was the Na	tional Anthem of
	(1) Britain	(2) Italy
	(3) Germany	(4) France

162. Who was the ruler of France during the French revolution?
(1) Louis XV
(2) Louis XIV
(3) Louis XX
(4) Louis XVI

163.	Hitler was born in	
	(1) France	(2) Austria
	(3) Germany	(4) Poland

164.	Who published 'The folklores of southern India'?		
	(1) Rabindra Nath Tagore	(2) Natesa Sastri	
	(3) Mahatma Gandhi	(4) Pattabhi Srimalu	

165. A tax levied by the church, comprising one tenth of the agricultural produce was (1) Livre (2) Taille
(3) Tithe (4) None of these

- 166. What was not the aim of Swaraj Party?
  - (1) To participate in Provincial council election.
  - (2) To oppose British policies within the councils.
  - (3) To demonstrate that councils were not democratic
  - (4) To make the Act of 1919 successful.

## 167. Who formed the secret society "young Italy"?

(1) Otto Van Bismarck(3) Giuseppe Mazzini

- (2) General Wan Run
- (4) King Victor Emmanual II

168.	The meaning of symbol "Crown of Oak Lea (1) Readiness to fight (3) Being freed	ves" was (2) Heroism (4) Willingness to make peace	
169.	Which was achieved by the "Enabling Act o (1) Established dictatorship (3) Establishment of German workers Party	(2) Hitler was appointed chancellor	
170.	<ul> <li>Which of the following was not related to Gandhi Irwin Pact 1931?</li> <li>(1) Government agreed to release the Political prisoners.</li> <li>(2) Gandhi Ji consented to participate in second Round Table Conference.</li> <li>(3) Formation of Simon Commission.</li> <li>(4) Gandhi Ji called off Civil Disobedience Movement.</li> </ul>		
171.	In Swaraj Flag (1921), Self Help was repres (1) Flower (3) Two Ox	sented by (2) Crescent Moon (4) Spinning wheel	
172.	Coffee cultivation was first introduced in (1) Himalayas (3) Garo Hills	(2) Aravali Hills (4) Baba Budan Hills	
173.	Which one of the following groups of state ( (1) Gujarat and Maharashtra (3) Maharashtra and Madhya Pradesh	nave largest number of cotton textile centres? (2) Karnatak and Tamil Nadu (4) Uttar Pradesh and Gujarat	
174.	Which one of the following describes a syst a large area? (1) Shifting Agriculture (3) Horticulture	tem of agriculture where a single crop is grown on (2) Plantation Agriculture (4) Intensive Agriculture	
175.	Neyveli lignite mines are located in the stat (1) Kerala (3) Karnataka	e of (2) Tamil Nadu (4) Andhra Pradesh	
176.	Which of the following regions is suitable fo (1) Himalaya Mountains Range (3) The northern Plains	r constructing railway lines? (2) Garo, Khasi and Jaintia Hills (4) Rajasthan desert	
177.	Hirakund Dam is constructed on the river – (1) Ganga (3) Manas	(2) Manjira (4) Mahanadi	
178.	When and where first cement plant was set (1) Chennai, 1905 (3) Kolkata, 1905	t up? (2) Chennai, 1904 (4) Kolkata, 1904	
179.	Who wrote the book "Small is Beautiful"? (1) Gandhi Ji (3) Schumacher	(2) Brundtland (4) Annie Besant	
180.	In which city of Haryana is the automobile i (1) Faridabad (3) Panipat	ndustry situated? (2) Gurgaon (4) Sonipat	

181.	According to the main role industry can be c (1) Agro-based and mineral based (3) Public, private, and Joint sector	livided into (2) Key and consumer industries (4) Heavy and light industries
182.	Which of the following is not a property of M (1) Conducting properties (3) Less power loss factor	lica? (2) Excellent di-electric strength (4) Resistance to high voltage
183.	Who was the chairman of the drafting comm (1) Dr. Rajendra Prasad (3) Dr. B.R. Menon	nittee of Indian Constituent Assembly? (2) Dr. B.R. Verma (4) Dr. B.R. Ambedkar
184.	Amnesty International is an international org (1) World Peace (3) World Justice	ganisation which works for (2) Human Rights (4) Restoration of Democracy
185.	The movement that seeks equality in the pe (1) Narivadi Andolan (3) Mahila Shakti Andolan	rsonal and family life of women is known as – (2) Nari Sashaktikaran Andolan (4) Mahila Adhikar Andolan
186.	A person who is not a member of Parliamen elected to one of the houses of Parliament v (1) A month (3) Six months	nt is appointed on minister, he/she has to get within: (2) Three months (4) Selected time is fixed by the President
187.	Who becomes the members of Gram Sabha (1) Only elderly people (3) All the voters of village	a? (2) Only elected members of Gram Panchayat (4) Only the youth of village
188.	President declares emergency when:- (1) Prime minister advises him to do. (2) Parliament advises him to declare. (3) The council of minister, in writing advises (4) Home minister asks him to declare.	s him to declare.
189.	<ul> <li>In case of conflict between the Centre Government and the State Government over subject in the Concurrent list:</li> <li>(1) Supreme Court decides which of the two should be considered.</li> <li>(2) The state government should be obeyed.</li> <li>(3) The central government should be obeyed.</li> <li>(4) Both governments should be obeyed.</li> </ul>	
190.	<ul> <li>What is Mid-Term Election?</li> <li>(1) Election for the seat to be vocated due to some reason.</li> <li>(2) Election in the event of death of one member.</li> <li>(3) Election to be held in whole country or state before the scheduled time.</li> <li>(4) Completion of 5 years election.</li> </ul>	
191.	In India, seats are reserved for women in wł (1) In Lok Sabha (3) In Rajya Sabha	nich of the following bodies:- (2) In State Legislatures (4) In Panchayati Raj
192.	Which famous Revolution took place in the (1) Russian Revolution (3) German Revolution	world history in 1789 – (2) American Revolution (4) French Revolution

- 193. Main Recommendation of Mandal Commission was: (1) Reservation for Socially and Educationally Backward Classes. (2) Reservation for schedule caste. (3) Reservation for schedule Tribes. (4) Reservation for Minorities. 194. Capital requirement of "NABARD" (National Bank of Agriculture and Rural Development) are met by which of the following institution -(1) Reserve Bank of India (2) International Development Association (IDA) (3) World Bank (4) All of above 195. Golden Revolution in India is related (1) Jwellery Export (2) Gold mines (3) Honey and Horticulture (4) Electronic Goods 196. Which of the following is not a renewable resource? (1) Forest (2) Animals (3) Water (4) Petroleum 197. Which of the following is not related to agriculture marketing? (1) Storage (2) Use of chemical fertilizers (3) Processing (4) Preservation 198. When an able person is willingly unemployed while here is opportunity to work is known as (1) Disguised unemployment (2) Voluntary unemployment (3) Seasonal unemployment (4) Educated unemployment 199. The production unit producing shoe comes under (1) Primary sector (2) Secondary sector (3) Tertiary sector (4) None of the above 200. Which of the following prepares Human Development Report?
- Which of the following prepares Human Development Report?
   (1) Planning Commission of India
   (2) International Monetary Fund
   (3) World Health Organisation
   (4) United Nation Development Programme