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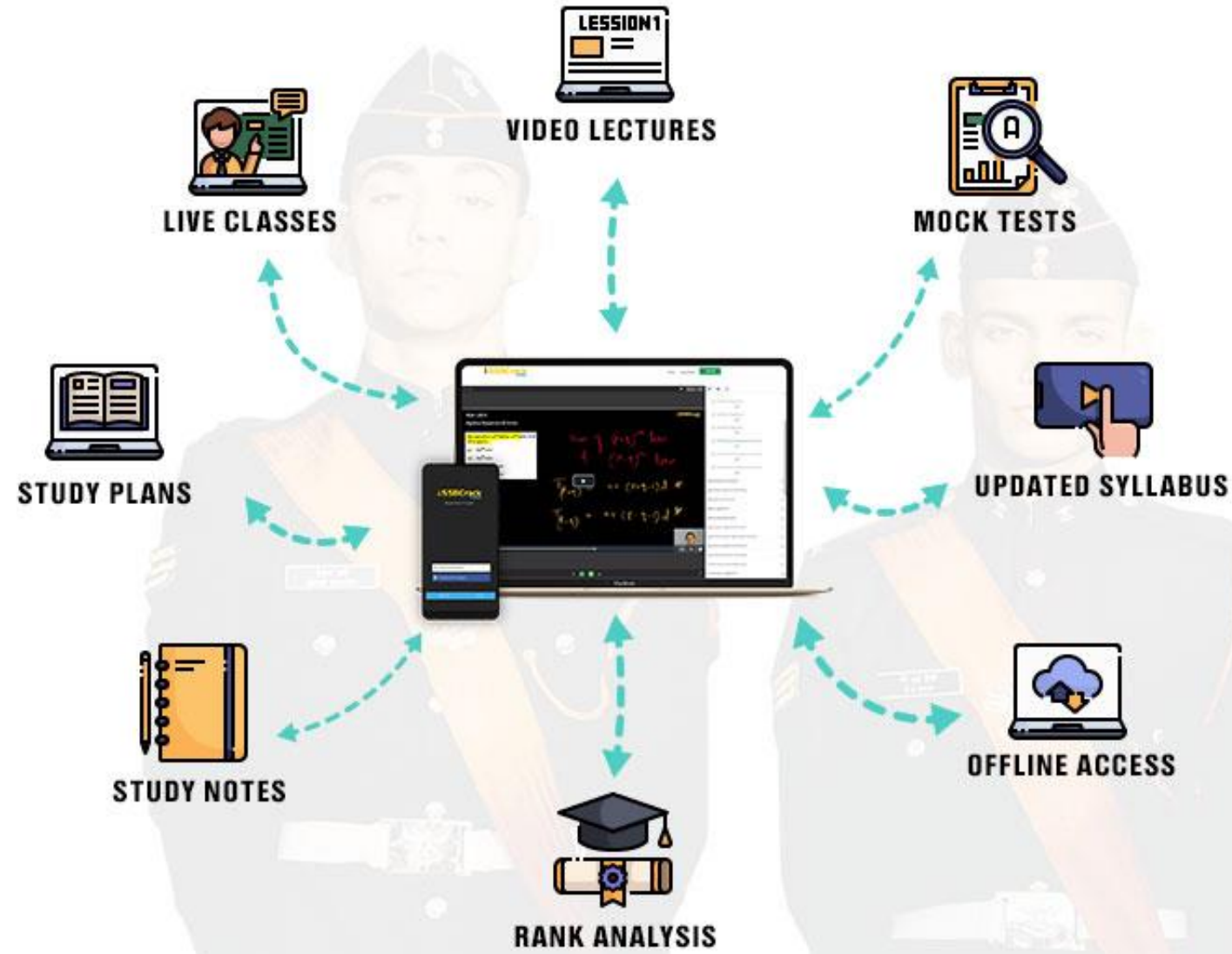


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NDA GAT Mock Test 5

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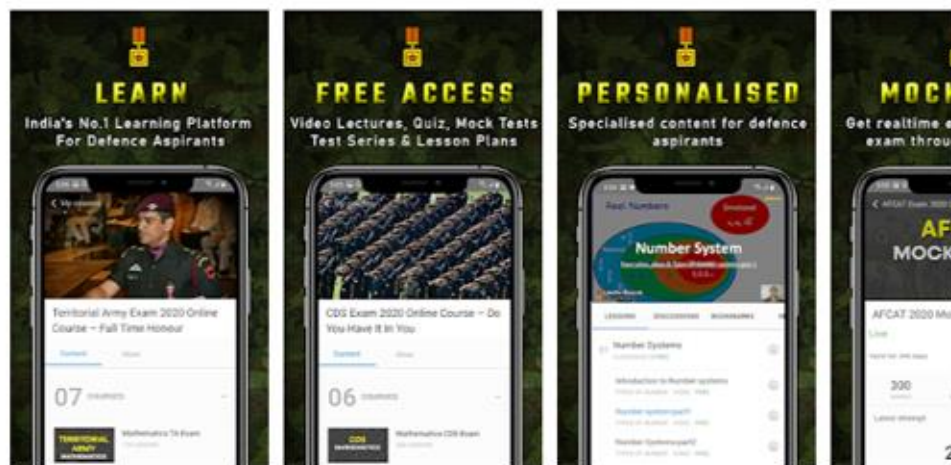
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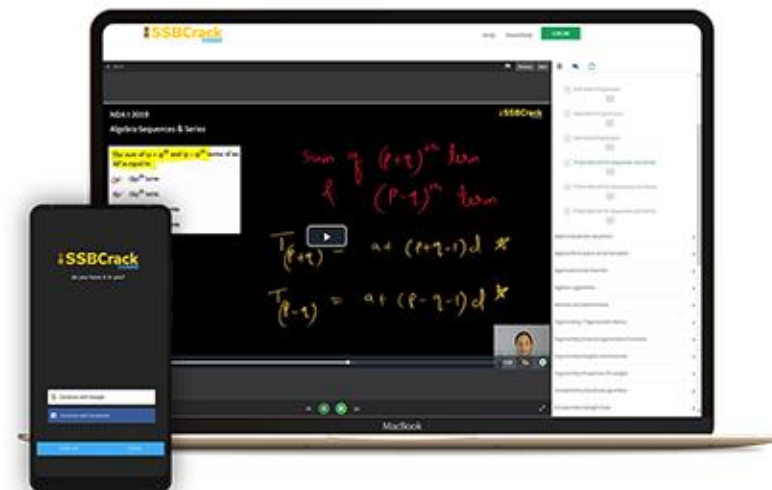


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Topics	No. of Questions
Physics	20
Chemistry	20
Biology	10
Indian Polity	04
History	15
Geography	18
Economy	00
Defence Specific	03
Current Affairs & Static GK	10

51. Which one of the following is **not** a form of condensation ?

- (a) Dew
- (b) Fog
- (c) Frost
- (d) Sleet

During condensation, the water vapour or the moisture in the atmosphere takes one of the following forms — dew, frost, fog and clouds. Condensation takes place when the dew point is lower than the freezing point as well as higher than the freezing point.

Ans: (d)

52. Which one of the following clouds is a rain-bearing cloud ?

- (a) Cumulus cloud
- (b) Stratus cloud
- (c) Nimbus cloud
- (d) Cirrus cloud

Ans: (a)

Towering cumulus, or cumulus congestus, may generate rain; they may also develop into the even larger, more energetic cumulonimbus. Cumulonimbus clouds, sometimes called "thunderheads," are associated with thunderstorms, lightning and intense, heavy rains as well as hail.

53. In which one of the following countries is intensive subsistence agriculture *not* predominantly practised ?

- (a) India
- (b) Japan
- (c) Canada
- (d) Indonesia

Ans: (c)

54. The Headquarters of South-Eastern Railway is located at

- (a) Bilaspur.
- (b) Secunderabad.
- (c) Kolkata.
- (d) Bhubaneswar.

Ans: (c)

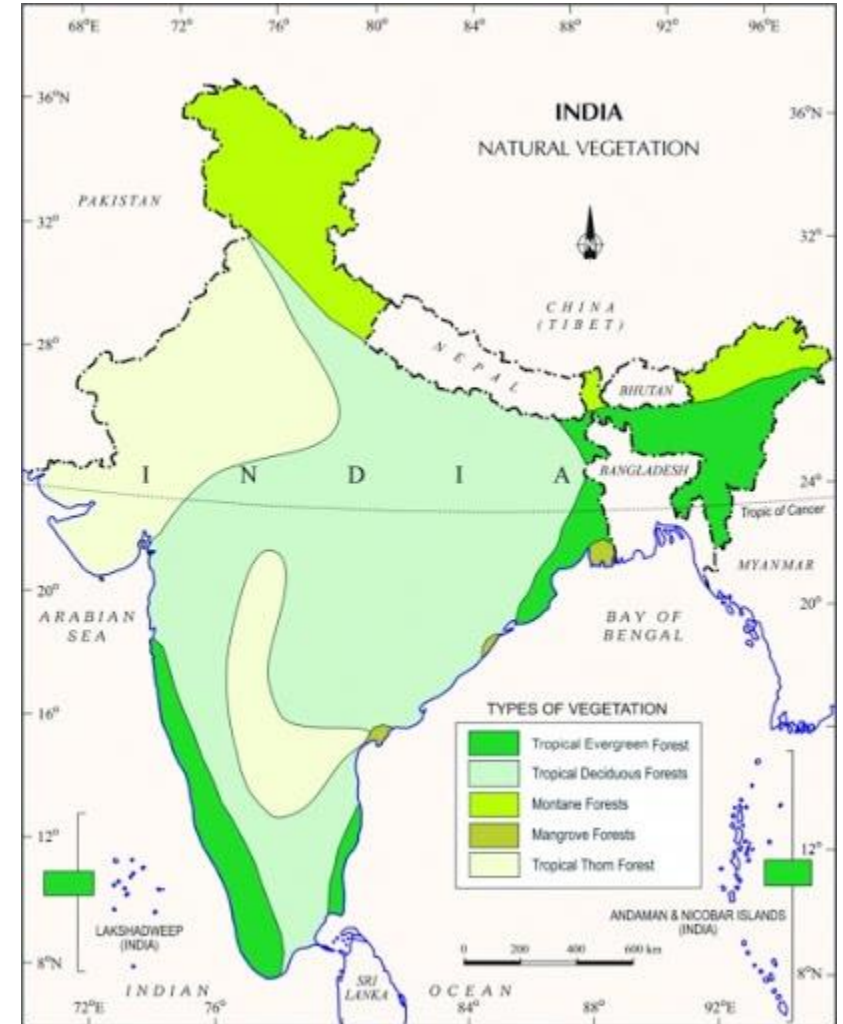
- 55.** Bharatmala Pariyojana is related to
- (a) interlinking of Northern and Southern Indian rivers in a garland shape.
 - (b) networks of National Highways in India.
 - (c) interlinking of all cities of India through Railways.
 - (d) interlinking of all industrial regions of India through pipelines.

Ans: (b)



- 56.** The natural vegetation which covers the maximum geographical areas of India is
- (a) Tropical deciduous forests.
 - (b) Tropical thorn forests.
 - (c) Montane forests.
 - (d) Tropical evergreen forests.

Ans: (a)



57. River Beas, flowing from Himachal and Punjab, joins the river

- (a) Indus.
- (b) Satluj.
- (c) Chenab.
- (d) Ravi.

Ans: (b)



58. With regard to the Constitution of India, which one of the following statements is *not* correct ?

- (a) The words — Socialist and Secular, were not originally part of the Constitution.
- (b) The Preamble states the objects of the Constitution of India.
- (c) The Preamble is enforceable in a Court of Law.
- (d) A Republic refers to the people as the source of all authority under the Constitution.

Ans: (c)

- 59.** Which one of the following is *not* a power of the Speaker of the Lok Sabha ?
- (a) Speaker shall preside over the House of the People.
 - (b) Speaker will cast vote in the first instance in the House.
 - (c) Speaker will have power to maintain order within the House of the People.
 - (d) Speaker can adjourn the House or suspend the meeting till there is a quorum.

Ans: (b)

60. Which one of the following is included in Article 51A (Part IV A) of the Constitution of India ?

- (a) Fundamental Duties
- (b) Suspension of Fundamental Rights
- (c) Special Powers of Governors
- (d) Writs

Ans: (a)

61. As per the data up to November, 2020, released by the Union Finance Ministry, which one of the following countries ranks 1 in terms of ODI (Outward Direct Investment) for the year 2020 – 21 ?

- (a) USA
- (b) Singapore
- (c) Mauritius
- (d) United Kingdom

Ans: (b)

62. 'Exercise Desert Knight – 21' is a bilateral air exercise between the Indian Air Force and the Air Force of which one of the following countries ?

- (a) USA
- (b) France
- (c) Britain
- (d) Israel

Ans: (b)



63. Tableau of which one of the following States/Union Territory was adjudged best in the Republic Day Parade, 2021 ?

- (a) Ladakh
- (b) Uttar Pradesh
- (c) Tripura
- (d) Uttarakhand

Ans: (b)



64. In the recently concluded elections in December 2020, Faustin-Archange Touadéra has won a second term in office as President of one of the following countries. Identify the country.

- (a) Central African Republic
- (b) Republic of South Africa
- (c) Republic of Ghana
- (d) Republic of Mozambique



Ans: (a)

65. Which one of the following statements is **not** correct in respect of the 'Legion of Merit' award ?
- (a) This award is conferred by the President of the United States of America.
 - (b) This award was conferred to the Prime Minister of India in December, 2020.
 - (c) This was also awarded to the Prime Minister of Australia, Scott Morrison.
 - (d) It is the highest civilian award of the United States of America.

Ans: (d)



- 66.** Which one of the following statements is most appropriate about 'Exercise Kavach' ?
- (a) It is a military exercise of the Indian Army only.
 - (b) It is a joint military exercise involving the Indian Army and the Indian Navy only.
 - (c) It is a joint military exercise involving the Indian Army, the Indian Navy and the Indian Air Force only.
 - (d) It is a joint military exercise involving the Indian Army, the Indian Navy, the Indian Air Force and also the Indian Coast Guard.

Ans: (d)



67. Recently a state of emergency has been declared in which one of the following countries ?

- (a) Maldives
- (b) Bhutan
- (c) Nepal
- (d) Myanmar

Ans: (d)

68. Which one of the following teams is the winner of the Syed Mushtaq Ali Trophy, 2021 ?

- (a) Uttar Pradesh
- (b) Punjab
- (c) Tamil Nadu
- (d) Baroda



Ans: (c)

69. Which country has replaced Maldives to host the 2023 Indian Ocean Island Games ?

- (a) Madagascar
- (b) Sri Lanka
- (c) India
- (d) Mauritius

Ans: (a)

70. Identify the correct reason, out of the following, about Claire Polosak for being in the news :

- (a) She has been honoured with the Pulitzer Prize.
- (b) She recently won a Grand Slam championship.
- (c) She became the first female match official to conduct a men's cricket test match.
- (d) She has been conferred with the Gandhi Peace Prize.

Ans: (c)

- 71.** If human blood is placed in a 2% detergent solution, what will happen to the RBC ?
- (a) The RBC will shrink.
 - (b) The RBC will swell and become turgid.
 - (c) The RBC will swell and burst.
 - (d) The RBC will lyse.

Ans: (c)

72. The major source of vitamins and minerals for vegetarians is

- (a) black gram and wheat.
- (b) rice and mustard.
- (c) vegetables and fruits.
- (d) soya bean and milk.

Ans: (d)

73. If a ray of light enters from a rarer medium to a denser medium at zero angle of incidence, it would

- (a) reflect back.
- (b) go straight.
- (c) turn towards right.
- (d) bend at 45° .

Ans: (b)

- 74.** Mirage is an illustration of
- (a) only dispersion of light.
 - (b) only reflection of light.
 - (c) only total internal reflection of light.
 - (d) both refraction and total internal reflection of light.

Ans: (d)

75. Common salt (NaCl) is *not* used as a raw material for preparation of which one of the following compounds ?

- (a) Bleaching powder
- (b) Baking soda
- (c) Plaster of Paris
- (d) Washing soda

Ans: (c)

76. Which one of the following Harappan sites was a specialised centre for making shell objects ?

- (a) Lothal
- (b) Balakot
- (c) Amri
- (d) Kot Diji

Ans: (a)

77. Which one of the following was *not* a part of the *dhamma* of King Ashoka ?

- (a) Honouring the king
- (b) Tolerance of religions other than one's own
- (c) Respecting Brahmanas
- (d) Promoting the welfare of his subjects

Ans: (a)

78. Which of the following statements about *Saguna* bhakti traditions is/are correct ?

1. *Saguna* bhakti traditions focus on the worship of specific deities such as Vishnu or his avatars.
2. In *Saguna* bhakti traditions, Gods and Goddesses are conceptualised in anthropomorphic forms.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Ans: (c)

79. At which one of the following places was a Shiva temple **not** constructed under the patronage of the Chola rulers ?

- (a) Chidambaram
- (b) Thanjavur
- (c) Gangaikonda Cholapuram
- (d) Naneghat

Ans: (d)

80. Which of the following statements about the Deccan Riots Commission is/are correct ?

1. The Commission did not hold enquiries in the districts which were not affected.
2. The Commission did record the statements of ryots, sahkars and eye-witnesses.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Ans: (b) DOUBTFUL

81. Which one of the following is the correct meaning of *ziyarat* ?

- (a) Pilgrimage to the tombs of sufi saints
- (b) The practice of revenue farming
- (c) The death anniversary of a sufi shaikh
- (d) A form of Islamic divorce

Ans: (a)

- 82. Keppel Island is completely bleached mainly due to the expansion of**
- (a) Starfish.
 - (b) Blue whale.
 - (c) Octopus.
 - (d) Sea horse.

Ans: (d) DOUBTFUL

83. Which one of the following rivers is *not* a tributary of river Brahmaputra ?

- (a) River Manas
- (b) River Kameng
- (c) River Mahananda
- (d) River Subansiri

Ans: (c)

84. Which one of the following is ***not*** a minor plate ?

- (a) Cocos Plate
- (b) Nazca Plate
- (c) Caroline Plate
- (d) Antarctic Plate

Ans: (d)

85. Advantage(s) of tectonic activity in Iceland include(s) :

1. Source of natural geothermal energy
2. Creation of new land
3. Attraction of tourists

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Ans: (c)

Consider the following statements about Light year :

1. Light year is a unit for measurement of very large distances.
2. Light year is a unit for measurement of very large time intervals.
3. Light year is a unit for measurement of intensity of light.

Which of the statements given above is/are correct ?

- (a) 1, 2 and 3
- (b) 2 and 3 only
- (c) 1 and 2 only
- (d) 1 only

Ans: (d)

87. Which one of the following regarding density of water at atmospheric pressure is correct ?
- (a) Density of water at 4°C is 1000 kg/m^3 .
 - (b) Density of water at 0°C is 1000 kg/m^3 .
 - (c) Density of water at 0°C is 100 kg/m^3 .
 - (d) Density of water at 4°C is 10 kg/m^3 .

Ans: (a)

Which of the following pairs of physical phenomenon and the discoverer is/are correctly matched ?

1. James Chadwick : Photoelectric effect
2. Albert Einstein : Neutron
3. Marie Curie : Radium

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 3 only

Ans: (d)

89. LED (a semi-conductor device) is an abbreviation that stands for

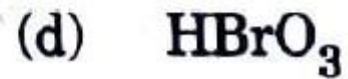
- (a) Licence for Energy Detector.
- (b) Light Energy Device.
- (c) Light Emitting Diode.
- (d) Lost Energy Detector.

Ans: (c)

- 90.** The statement “friction force is a contact force while magnetic force is a non-contact force” is
- (a) always true.
 - (b) true only at 0°C .
 - (c) a false statement.
 - (d) either true or false depending upon the temperature of the surroundings.

Ans: (a)

91. Which one of the following is the chemical formula of Hypobromous acid ?



Ans: (b)

92. The composition of gases in exosphere is

- (a) Helium and Hydrogen.
- (b) Neon and Oxygen.
- (c) Neon and Hydrogen.
- (d) Helium and Neon.

Ans: (a)

93. Which one of the following is **not** used as a raw material in the manufacture of glass ?

- (a) Soda
- (b) Alumina
- (c) Borax
- (d) Gypsum

Ans: (d)

94. In electrolytic refining of copper, the electrolyte is a solution of

- (a) acidified copper chloride.
- (b) acidified copper sulphate.
- (c) potassium chloride.
- (d) sodium sulphate.

Ans: (b)

95. Solder is an alloy of

- (a) Cu and Sn.
- (b) Fe and Zn.
- (c) Pb and Sn.
- (d) Ag and Zn.

Ans: (c)

96. Which one of the following statements about dihydrogen (H_2) is *not* correct ?

- (a) H_2 is lighter than air and insoluble in water.
- (b) H_2 is inert at room temperature due to high H – H bond dissociation enthalpy.
- (c) H_2 reacts with alkali metals at high temperature to yield metal hydrides.
- (d) A mixture of NO_2 and H_2 is known as Syngas.

Ans: (b)

97. Which of the following sets of elements has the same valency ?

(a) Na, Mg, Ca

(b) Na, Mg, Al

(c) Mg, Ca, K

(d) Mg, Ca, Ba

Ans: (d)

98. Which one of the following is the lowest possible temperature ?

- (a) 0° Celsius
- (b) $- 073^{\circ}$ Celsius
- (c) $- 173^{\circ}$ Celsius
- (d) $- 273^{\circ}$ Celsius

Ans: (d)

99. Numerically two thermometers, one in Fahrenheit scale and another in Celsius scale shall read same at

- (a) -40°
- (b) 0°
- (c) -273°
- (d) 100°

Ans: (a)

100. The image we see in plane mirror is

- (a) real and thus can be photographed.
- (b) virtual and nearer than the object.
- (c) virtual and is laterally inverted.
- (d) real but cannot be photographed.

Ans: (c)

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NDA EXAM YEAR	WRITTEN EXAM MARKS	WRITTEN + SSB
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NDA & NA (I) 2020	355	723
NDA & NA (I) 2019	342	704
NDA & NA (II) 2018	325	688
NDA & NA (I) 2018	338	705
NDA & NA (II) 2017	258	624
NDA & NA (I) 2017	342	708
NDA & NA (II) 2016	229	602
NDA & NA (I) 2016	288	656
NDA & NA (II) 2015	269	637
NDA & NA (I) 2015	306	674

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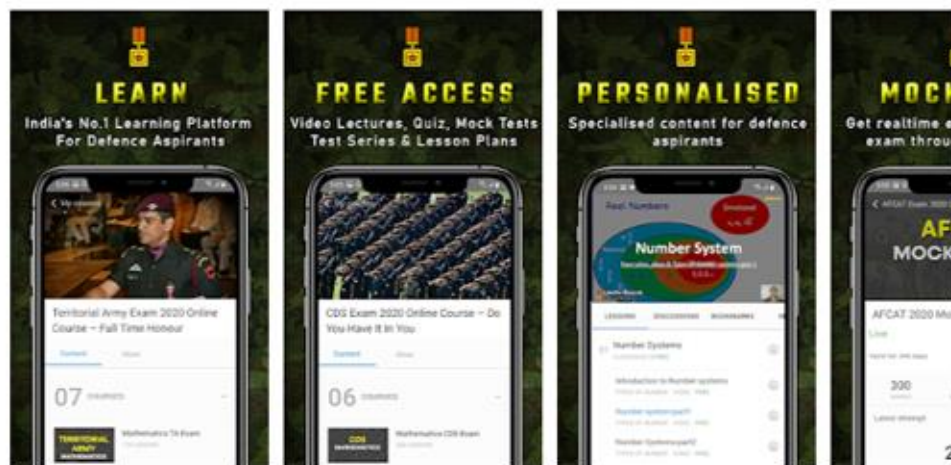
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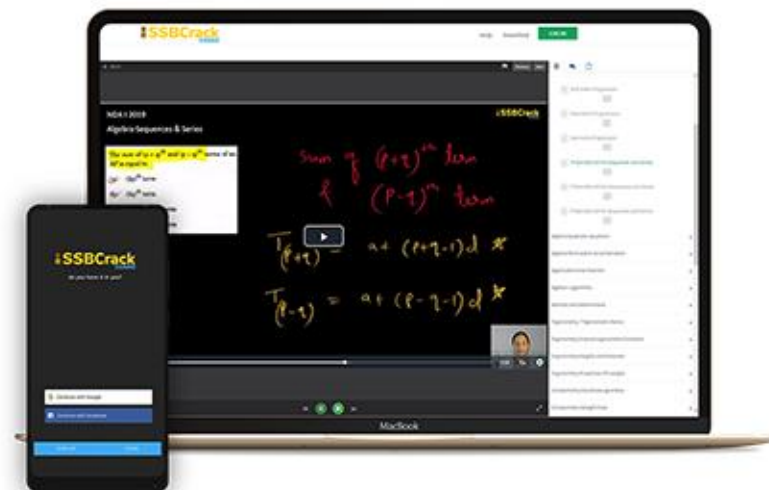


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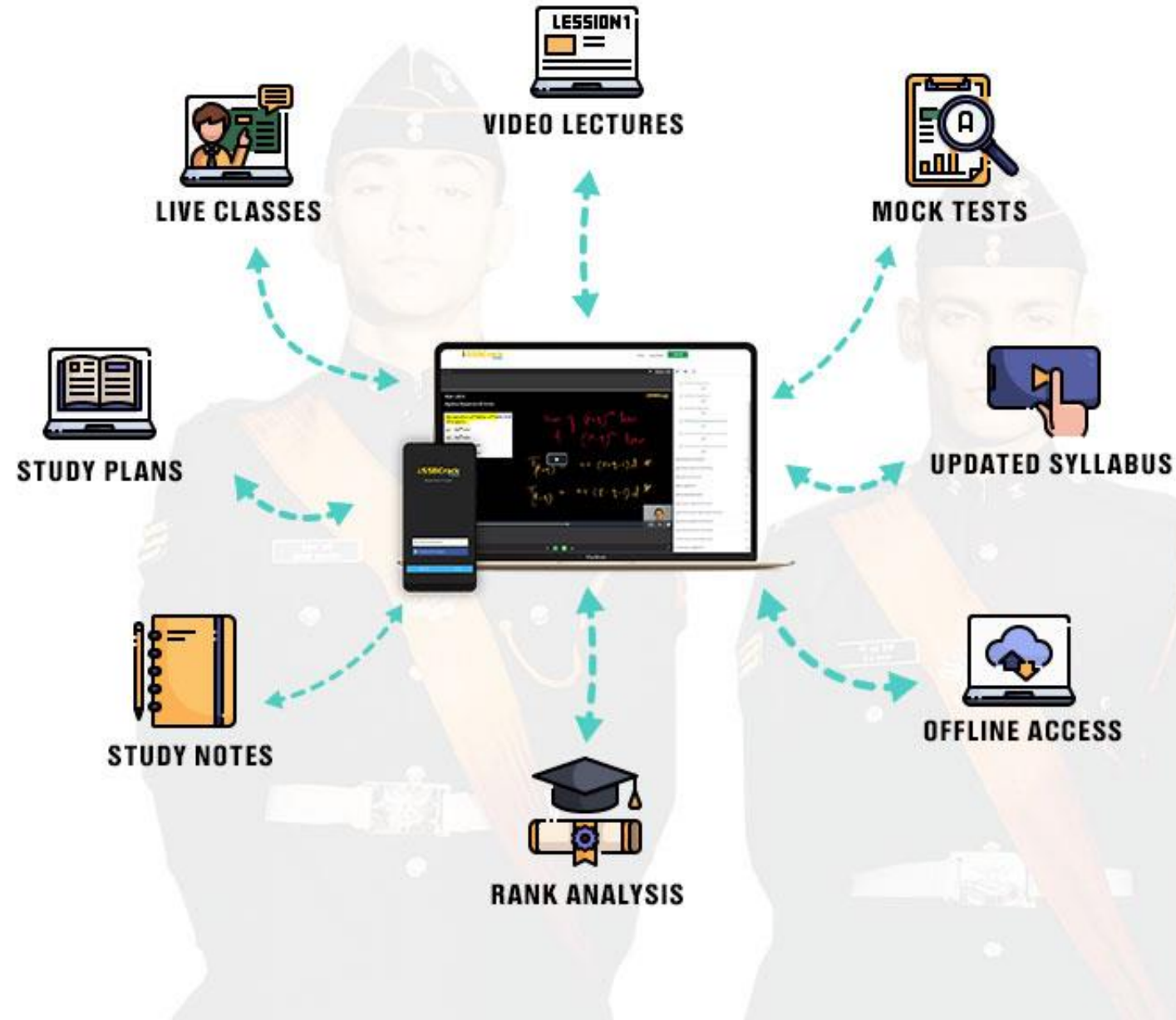


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NDA Maths Mock Test 6

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NDA GAT Mock Test 7

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NDA Maths Mock Test 7

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NDA GAT Mock Test 8

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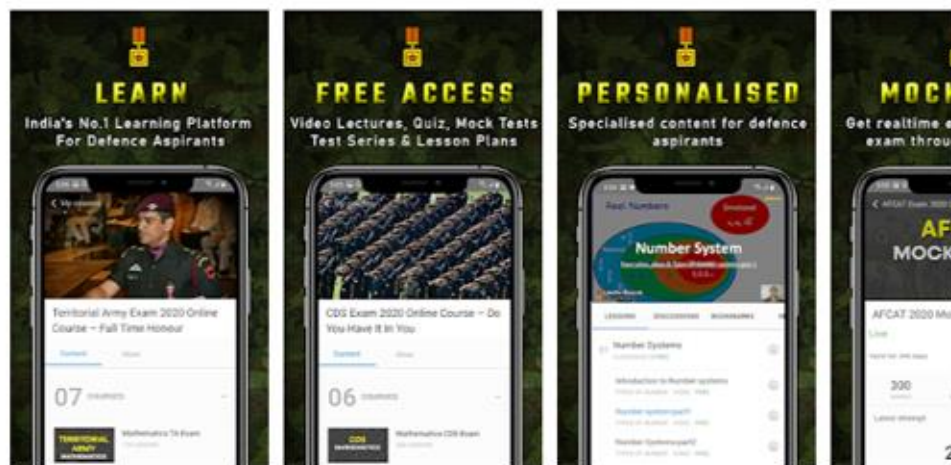
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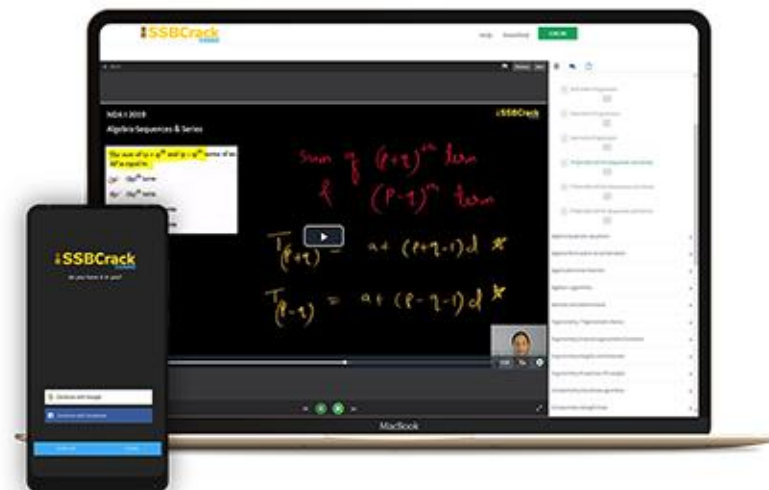


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101. The process whereby certain minerals absorb water, expand and change is called as

- (a) Hydration.
- (b) Oxidation.
- (c) Hydrolysis.
- (d) Carbonation.

Ans: (a)

102. Which one of the following is the longest Latitude ?

- (a) 90 degree Latitude
- (b) 23.5 degree Latitude
- (c) 0.0 degree Latitude
- (d) 66.5 degree Latitude

Ans: (a)

103. If it is 12·00 Noon in India, on which meridian will it be 7·00 am of the same day ?

- (a) 7·5 degree E. Longitude
- (b) 7·5 degree W. Longitude
- (c) 75 degree E. Longitude
- (d) 75 degree W. Longitude

Ans: (d)

104. Who among the following was considered to be the preceptor of **Mirabai** ?

- (a) Dadu
- (b) Raidas
- (c) Ramanand
- (d) Surdas

Ans: (b)

105. Consider the following statements about the *Mahanavami Dibba* :

1. It was the name of a giant box of sweets distributed at the Mahanavami festival.
2. It was the name of a massive platform with a base covered with relief carvings.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Ans: (b)

106. Which one of the following statements about the *Ain-i-Akbari* is **not** correct ?
- (a) It was written by Abu'l Fazl.
 - (b) It is a part of a larger work called *Akbar Nama*.
 - (c) It describes the Mughal Empire as having a diverse population and a composite culture.
 - (d) It was later revised by Sadullah Khan on the orders of Shah Jahan.

Ans: (d)

107. Swami Dayanand Saraswati

1. was opposed to the worship of idols of Gods and Goddesses.
2. regarded the Vedas as infallible.
3. had met and had discussions with Ishwar Chandra Vidyasagar.

Which of the statements given above are correct ?

- (a) 1, 2 and 3
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1 and 2 only

Ans: (c)

108. Consider the following statements :

1. Muhammadan Anglo-Oriental College was founded at Aligarh by Sayyid Ahmad Khan.
2. Sayyid Ahmad Khan was a great believer in religious toleration, and Hindus, Parsis and Christians had contributed to the funds of his college.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Ans: (a)

109. Basket-of-eggs topography is related to

- (a) Drumlins.
- (b) Eskers.
- (c) Cirques.
- (d) Moraines.

Ans: (a)

110. Which one of the following planets has the highest density ?

- (a) Mercury
- (b) Venus
- (c) Jupiter
- (d) Earth

Ans: (d)

111. Point of Origin of Earthquake Wave is known

as

- (a) Epicentre.**
- (b) Focus.**
- (c) Photosphere.**
- (d) Seismic Zone.**

Ans: (a)

112. The maximum depth of Lithosphere is found in the

- (a) Pacific Ocean.
- (b) Siberian Plain.
- (c) Patagonian Desert.
- (d) Himalayan Mountains.

Ans: (a)

113. A large body of magmatic material that cools in the deeper depth of the Earth's crust and develops in the form of large domes is known as

- (a) Batholiths.
- (b) Lacoliths.
- (c) Lopoliths.
- (d) Phacoliths.

Ans: (a)

114. Which one of the following Oil Refineries is *not* located in Assam ?

- (a) Tatipaka
- (b) Numaligarh
- (c) Bongaigaon
- (d) Digboi

Ans: (a)

115. Where and when did Mahatma Gandhi make his first public appearance in India on coming back from South Africa after two decades ?

- (a) Champaran in 1917
- (b) Lucknow in 1916
- (c) Banaras Hindu University in 1916
- (d) Ahmedabad in 1918

Ans: (c)

116. When and where was the demand for “Purna Swaraj” or complete independence made by the Indian National Congress ?

- (a) Bombay, 1885
- ✓(b) Lahore, 1929
- (c) Kheda, 1917
- (d) Bombay, 1942

Ans: (b)

117. Which one of the following provides for the complete equality of men and women in India ?

- ✓ (a) Articles 14 and 15 of the Constitution of India
- (b) Fifth Schedule of the Constitution of India
- (c) The Indian Independence Act
- (d) Article 20 of the Constitution of India

Ans: (a)

118. Which of the following statements about the non-permanent members of the Security Council of the United Nations is/are correct ?

1. Their total number is now 10, but was originally only 6.
2. They are elected for a term of two years only.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Ans: (c)

119. At which of the following was the American Declaration of Independence adopted on 4 July, 1776 ?

- (a) Washington Conference
- (b) San Francisco Conference
- (c) Second Continental Congress
- (d) First Continental Congress

Ans: (c)

120. Who among the following was the head of the Government that was overthrown by the Bolsheviks in the 1917 Revolution ?

- (a) Alexander Kerensky
- (b) Prince Lvov
- (c) Grand Duke Sergei
- (d) Tsar Nicholas II

Ans: (a)

- 121.** Which one of the following statements about the cleansing action of soap is *not* true ?
- (a) The oil and dirt gets collected in the centre of the micelle.
 - (b) Soap micelles scatter light.
 - (c) Soaps are ammonium salts of long chain carboxylic acids.
 - (d) Soap forms insoluble precipitates with the calcium and magnesium ions in hard water.

Ans: (c)

122. Hydrogenation of vegetable oils using nickel catalyst is an example of

- (a) Substitution reaction.
- (b) Elimination reaction.
- (c) Addition reaction.
- (d) Free-radical polymerization.

Ans: (c)

123. Which one of the following materials is *not* an allotrope of carbon ?

- (a) Diamond
- (b) Graphene
- (c) Fly ash
- (d) Fullerene

Ans: (c)

- 124.** Which one of the following reactions does *not* result in the evolution of hydrogen gas ?
- (a) Reaction of zinc metal with dilute sulphuric acid solution
 - (b) Mixing water to Plaster of Paris
 - (c) Heating zinc metal with sodium hydroxide solution
 - (d) Reaction of potassium metal with water

Ans: (b)

125. Which one of the following acids is predominantly found in tomatoes ?

- (a) Acetic acid
- (b) Tartaric acid
- (c) Oxalic acid
- (d) Lactic acid

Ans: (c)

126. Which one of the following conclusions could **not** be derived from Rutherford's α -particle scattering experiment ?

- (a) Most of the space in the atom is empty.
- (b) The radius of the atom is about 10^5 times the radius of the nucleus.
- (c) Electrons move in a circular path of fixed energy called orbits.
- (d) Nearly all the mass of the atom resides in the nucleus.

Ans: (c)

127. Reaction of quick lime (CaO) with water to produce slaked lime (Ca(OH)_2) is an example of

- (a) Displacement reaction.
- (b) Endothermic reaction.
- (c) Decomposition reaction.
- (d) Exothermic reaction.

Ans: (d)

128. Which one of the following is *not* a bio-mass energy source ?

- (a) Wood
- (b) Nuclear reactor
- (c) Gobar gas
- (d) Coal

Ans: (b)

129. Twinkling of stars is due to

- (a) particular frequencies of the starlight.
- (b) reflection of starlight from the oceanic surface.
- ☒ (c) atmospheric refraction of starlight.
- (d) magnetic field of Earth.

Ans: (c)

130. Which one of the following **cannot** be the unit of frequency of a sound wave ?

- (a) dB
- (b) s^{-1}
- (c) Hz
- (d) min^{-1}

Ans: (a)

- 131. 'Beats' is a phenomenon that occurs when frequencies of two harmonic waves are**
- (a) equal.
 - (b) far apart.
 - (c) multiples of each other.
 - (d) nearly same.

Ans: (d)

132. Light waves are incident on an air-glass boundary. Some of the light waves are reflected and some are refracted in the glass. Which one of the following properties is the same for the incident wave and the refracted wave ?

- (a) Speed
- (b) Direction
- (c) Brightness
- (d) Frequency

Ans: (d)

133. Which one of the following statements is true for a simple harmonic oscillator ?

- (a) Force acting is directly proportional to the displacement from the mean position and is in same direction.
- (b) Force acting is directly proportional to the displacement from the mean position and is in opposite direction.
- (c) Acceleration of the oscillator is constant.
- (d) The velocity of the oscillator is not periodic.

Ans: (b)

134. During seed germination, the part of the embryo which grows into root is

- (a) Radicle.
- (b) Plumule.
- (c) Cotyledon.
- (d) Epicotyl.

Ans: (a)

135. In a typical flower, germinating pollen grains pass through several parts of the gynoecium before they reach the ovule. A list of the parts of gynoecium is given below in different combinations. Choose the combination that represents the correct sequence of pollen tube pathway/journey :

- (a) Style, Stigma, Ovary
- (b) Stigma, Style, Ovary
- (c) Pistil, Stigma, Ovary
- (d) Ovary, Pistil, Style

Ans: (b)

136. Which one of the following colours may be obtained by combining green and red colours ?

- (a) Blue
- (b) Magenta
- (c) Pink
- (d) Yellow

Ans: (d)

137. Which of the following are the primary colours of light ?

- (a) Yellow, Red and Green
- (b) Blue, Red and Green
- (c) Violet, Red and Yellow
- (d) Indigo, Violet and Green

Ans: (b)

138. According to the New Cartesian Sign Convention, which one of the following is correct in respect of the formula $\frac{1}{f} = \frac{1}{v} + \frac{1}{u}$, where symbols have their usual meanings ?

- (a) It applies only to spherical mirrors.
- (b) It applies only to spherical lenses.
- (c) It applies to spherical mirrors as well as spherical lenses.
- (d) It is an invalid formula.

Ans: (a)

139. Movement of materials to different parts of cytoplasm and nucleus is generally carried out by

- (a) Ribosomes.
- (b) Mitochondria.
- (c) Lysosomes.
- (d) Endoplasmic reticulum.

Ans: (a) or (d)

140. In mitochondria, ATP synthesizing chemical reactions take place in the

- (a) Outer membrane.
- (b) Matrix.
- (c) Inner membrane.
- (d) DNA of mitochondria.

Ans: (c)

141. Squamous epithelial cells are found in the inner lining of

- (a) Oesophagus.
- (b) Small intestine.
- (c) Ducts of salivary gland.
- (d) Kidney.

Ans: (a)

142. Transformation of meristematic cells into specific permanent tissues occurs by the process of

- ☒ (a) Cell differentiation.
- ☐ (b) Cell division.
- ☐ (c) Cell multiplication.
- ☐ (d) Cell regeneration.

Ans: (a)

143. The gaseous product of a process in plants is a requirement for another vital process that releases energy. Given below are four combinations of the process and product. Identify the correct answer.

- (a) Respiration and Nitric oxide
- (b) Transpiration and Water vapour
- (c) Photosynthesis and Oxygen
- (d) Germination and Carbon dioxide

Ans: (c)

- 144.** In a dicot pot herb, vaseline/vegetable oil was applied on the upper surface of one leaf (Experimental leaf 1) and on the lower surface of another leaf (Experimental leaf 2). Vaseline/Vegetable oil was not applied on the control leaf. The plant was deliberately not watered for several days. Which leaf will dry up last ?
- (a) Experimental leaf 1
 - (b) Experimental leaf 2
 - (c) Control leaf
 - (d) All the leaves will dry up simultaneously

Ans: (c) or (d)

145. Which one of the following statements is **not** correct for light rays ?

- (a) Light travels at different speeds in different media.
- (b) Light travels at almost 300 million metres per second in air.
- (c) Light speeds down as it leaves a water surface and enters the air.
- (d) Light speeds up as it leaves a glass surface and enters the air.

Ans: (c)

146. A glass prism splits white light into different colours. This phenomenon is called dispersion of light by prism. Which one of the following statements is correct ?

- (a) Red light will deviate the most and it is because of the reflection of light.
- (b) Violet light will deviate the most and it is because of the refraction of light.
- (c) Red light will deviate the most and it is because of the refraction of light.
- (d) Violet light will deviate the most and it is because of the reflection of light.

Ans: (b)

147. A current of 1.0 A is drawn by a filament of an electric bulb for 10 minutes. The amount of electric charge that flows through the circuit is

- (a) 0.1 C
- (b) 10 C
- ☒ (c) 600 C
- (d) 800 C

Ans: (c)

148. Which one of the following formulas does *not* represent electrical power ?

(a) $I^2 R$

(b) $I R^2$

(c) $V I$

(d) V^2 / R

Ans: (b)

149. The sound created in a big hall persists because of the repeated reflections. The phenomenon is called

- (a) Reverberation.
- (b) Dispersion.
- (c) Refraction.
- (d) Diffraction.

Ans: (a)

150. When light is scattered by a molecule and the frequency of the scattered light is changed, this phenomenon is called

- (a) Rayleigh scattering.
- (b) Raman effect.
- (c) Photoelectric effect.
- (d) Rutherford scattering.

Ans: (b)



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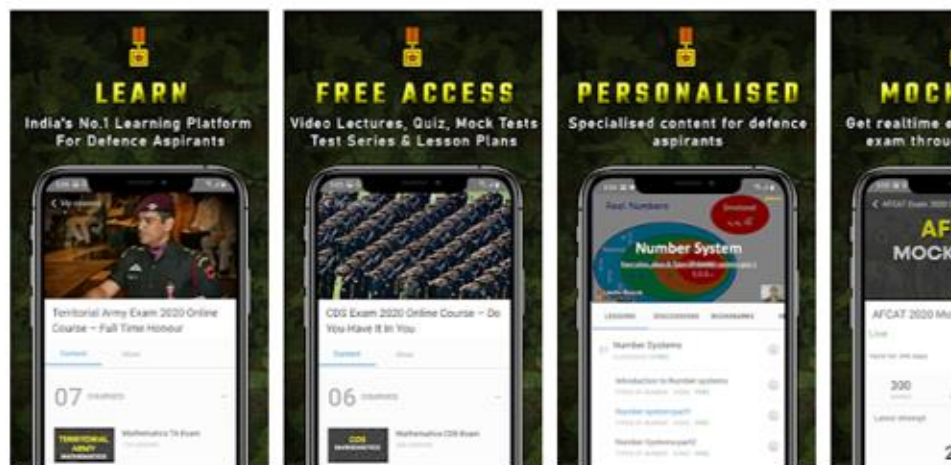
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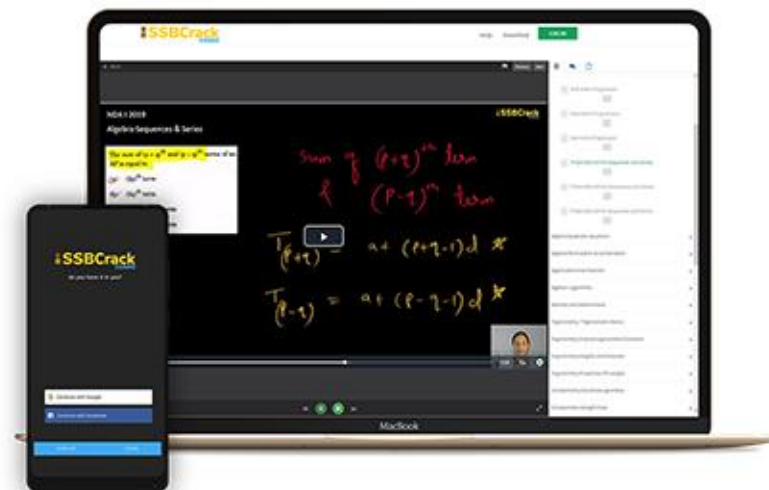


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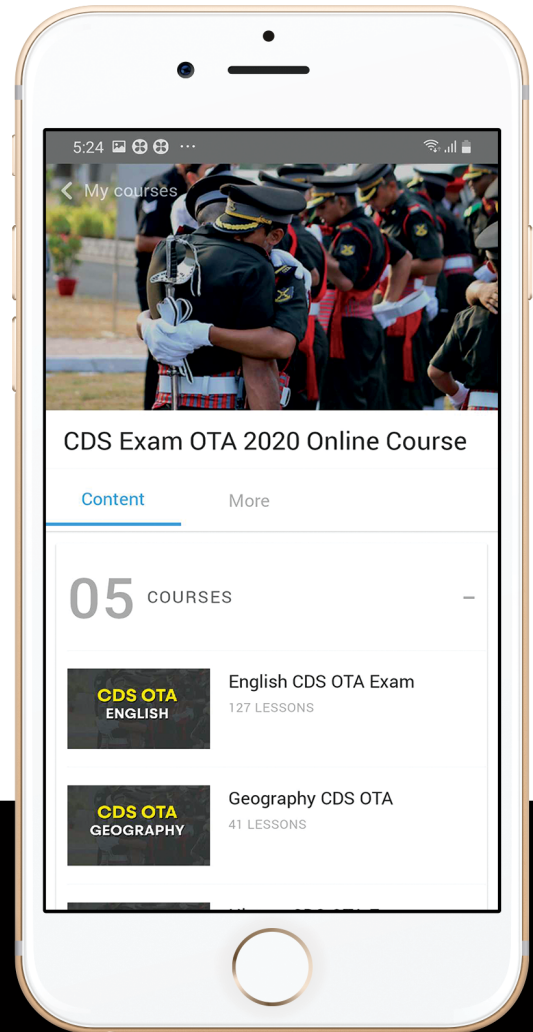




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