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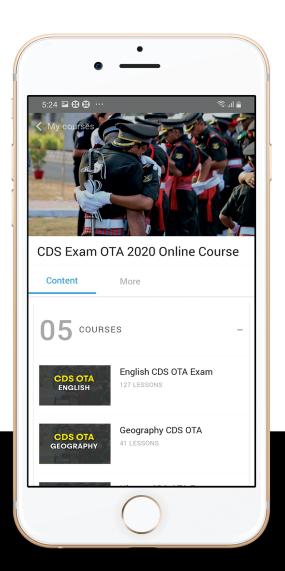
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PART - A

ANTONYMS

Directions:

Each item in this section consists of a sentence with an underlined word followed by four words. Select the option that is **opposite in meaning** to the underlined word and mark your response on your Answer Sheet accordingly.

- 1. He nodded <u>absently</u> throughout the meeting.
 - (a) capably
 - (1) alertly
 - (c) agitatedly
 - (d) dreamily
- 2. I fully believe that the cornerstone of good policy is an electorate that is educated on the national issues.
 - (a) cerebral
 - (b) enlightened
 - (c) ignorant
 - (d) erudite
- 3. For important medical decisions, even finding a doctor you trust is not enough.
 - (a) significant
 - (b) trivial
 - (c) basic
 - (d) probable

- 4. Planets move in their orbits.
 - (a) push
 - (b) rotate
 - stall
 - (d) flow
- 5. Temperature is a measure of internal energy of an object and is frequently expressed by physicists in units of Kelvin.
 - (a) found
 - (b) told
 - (c) distributed
 - concealed
- 6. People argue about why Venus is so much warmer than the Earth.
 - (a) friendlier
 - colder
 - (c) wilder
 - (d) heavier

- Scientists are <u>concerned</u> whether the oceans and land biosphere will take up as much carbon in the future as they presently do.
 - (a) worried
- indifferent
 - (c) curious
 - (d) puzzled
- 8. The biggest <u>debate</u> among scientists today is about *cloud feedback*.
 - (a) contend
 - (b) moot
 - (c) wrangle
- agreement

- 9. The Earth's climate sensitivity is conventionally defined as the equilibrium temperature increase caused by a doubling of carbon dioxide.
 - (a) imperviousness
 - (b) willingness
 - (c) responsiveness
 - (d) closeness
- 10. The oceans carry a <u>huge</u> amount of heat from the tropics to the high latitudes.
 - (a) significant
 - (b) major
 - (c) tiny
 - (d) dormant

ORDERING OF WORDS IN A SENTENCE

Directions:

Each of the following items in this section consists of a sentence(s), the parts of which have been jumbled. These parts have been labelled as P, Q, R and S. Given below each sentence are four sequences namely (a), (b), (c) and (d). You are required to rearrange the jumbled parts of the sentence and mark your response accordingly.

11. several years ago, P course on climate change at Texas A&M University

Professor Andrew Dessler created an introductory

R

for freshmen and sophomores

- (z) PRQS
- (b) QRPS
- (c) SQRP
- (d) PQRS

12.	I realize that solving the climate change pro	blem	than solving	will be mu	ch harder
	P		Q	R	
	the ozone depletion problem				
	S				
	(c) P.P. O.S				
	(a) PRQS				4,
	(b) QRPS				
	(c) SQRP		. *		
	(d) PQRS				
13.	although the temperature of this layer of the	ne wh	nen directly cor	nparing the	satellite
	P		* a	Q	
	measurements of temperature		^		
	R				
	atmosphere should generally track the sur	face ter	mperature, we	must be care	ful
	S				
	(a) PRQS				3
	(a) I R Q S			SK.	
	(b) PSQR			AMS	
•	(c) SQRP				
	(c) 5 Q K I		a Es		
	(d) PQRS				
	*				
14	4. the element heats up, eventually reachi	ng higl	n temperatures		
	P	Q	and the state of t		
	glowing like a dark orange that radiates	the vi	isible range,		
	R		S		
	(a) PQSR				
	(b) QPSR				
	(c) SQRP				
	(d) PRSQ				

15. two people argue about why Venus is so much warmer				
P				
to the Sun, so it absorbs more solar energy. The second argues				
Q				
that it's because Venus has a thick, greenhouse-gas rich atmosphere				
R				
than the Earth. The first argues that it's because Venus is closer				
S				
PSQR				
(b) QRPS				
(c) SQRP				
(d) PQRS				
16. are now used by more than a thousand firms and are growing in popularity				
P				
in the United States and Europe gain sharing-plans				
R				
(a) PRQS				
(b) QRPS				
(c) PRSQ				
SPRQ				
17. adversity without succumbing to the clouds of doubt and jealousy				
P Q				
between friends which is subjected to both prosperity and				
R				
the essay 'Of Friendship' by Francis Bacon celebrated the intimacy				
S				
(a) PRQS				
(b) QRPS				
SRPQ				
(d) PQRS				

18.	friends without which the world is make friends and a person wills to want true				
	P				
	t is miserable solitude that compels a person to				
	R				
	nothing other than a place of wilderness				
	S S				
	(a) PRQS				
	(b) Q R P S				
1	RQPS				
	d) PQRS				
19	takes the longest that never started the job to finish				
17.					
	Y K 5				
	(a) PRQS				
	(c) SQRP				
	(d) PQRS				
20.	to what you can create control, shift your energy instead of worrying about				
	P				
	what you cannot				
	S				
	(a) PRSQ				
	(b) QRSP				
	(c) SQRP				
1	(d) R S Q P				
•	CNAIONINA				
	SYNONYMS				
Dire	ctions:				
Each item in this section consists of a sentence with an underlined word/words followed by four words. Select the option that is nearest in meaning to the					
	by four words. Select the option that is nearest in meaning to the underlined word and mark your response on your Answer Sheet accordingly				
and mark your response on your Answer Sheet accordingly.					
21.	She got the divorce within no time. 22. He was known for 1:				
	She got the <u>divorce</u> within no time. 22. He was known for his gentle disposition.				
	(a) harmful				
	(b) breaking down				
•	(c) annulment (c) cunning				
	(d) punishment (d) adjusting				
	(d) adjusting				

23. The harder we kick, the better the ball bounces back.	27. He was too cunning for her.
(2) recoils	(a) capable
(b) deflates	(b) fit
(c) inflates	(c) intelligent
(d) ascends	
24. I plan and execute.	28. This decision is <u>crucial</u> for me.
(a) desire	(a) momentous (b) natural
(b) debate	(e) primitive
(d) discard	(d) inept
25. He listened to me with equanimity.	29. The media went into a frenzy about the case.
(a) carelessly	(a) silent
(b) excitedly	(b) creative
(c) patiently	(c) berserk
(d) half-heartedly	(d) wrong
26. The whole thing was a <u>futile</u> exercise.	30. He has been yearning to go home.
(a) costly	(a) declining
pointless	(b) demanding
(c) indecisive (d) successful	(c) begging (d) hankering
(4)	- mainterining

PREPOSITIONS

Di	rec	ne	771	2	

Each item in this section has a sentence with a missing preposition. Select the correct preposition from the given options and mark your response on your Answer Sheet accordingly.

accordingly.	nark your response
31. Simulations of the 20th century by climate models that exclude the observed increase greenhouse gases fail to simulate the increase in temperature over the second half of the 20th century. (a) of	(b) in (c) by (d) within 36. She is a woman humble origin. (a) off (b) of (c) from (d) within
(d) to	37. There is no cure the common
32. In extremely poor societies, children can be put to work a young age and are therefore a source of income. (a) in	cold. cold. for (b) of (c) to (d) on
(b) on	38. I ran John yesterday, and it
(c) by (c) at 33. People who are averse hard work, generally do not succeed in life.	was a pleasant surprise. (a) by (b) off (c) beside (d' into
(b) about (c) at (d) on 34. I have known her a long time. (a) since	39. My grandmother enjoyed boating the lovely lake. (b) on (c) beside (d) within
(c) at (d) before 35. I accepted the offer certain conditions.	40. He visits the needy to relieve them their sufferings and poverty. (b) off

SPOTTING ERRORS

Directions:

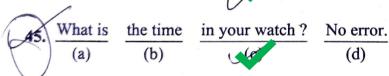
Each item in this section has a sentence with three underlined parts labelled as (a), (b) and (c). Read each sentence to find out whether there is any error in any underlined part and indicate your response on the Answer Sheet against the corresponding letter i.e., (a) or (b) or (c). If you find no error, your response should be indicated as (d).

- 41. This building comprises of six houses, three parking lots and one basement.

 (c)

 No error.
- 42. $\frac{\text{I look forward}}{\text{(a)}}$ $\frac{\text{to meet}}{\text{(b)}}$ $\frac{\text{you.}}{\text{(c)}}$ $\frac{\text{No error.}}{\text{(d)}}$
- 43. $\frac{I \text{ cannot}}{(a)}$ $\frac{\text{cope up}}{(b)}$ $\frac{\text{with this pressure.}}{(c)}$ $\frac{\text{No error.}}{(c)}$
- 44. I came to this place by walk. No error.

 (a) (b) (d)



- 46. The price of my dress is higher than that of yours. (a) (b) (c) No error.
- My friend's daughter-in-laws have come. No error,
- 48. I prefer seafood than Mediterranean food. (d)

 No error.
- 49. We were discussing about the issue. No error.
- 50. Dispose off the garbage from the shelves. No error.



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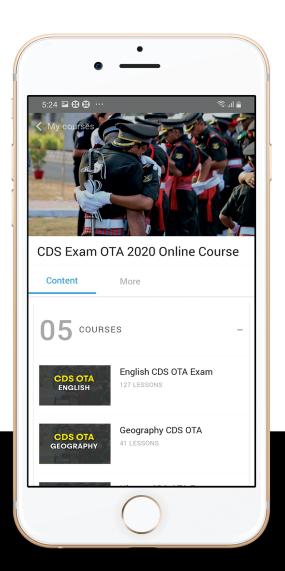
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PART - B

- **51.** New Zealand is considered part of which one of the following island groups?
 - (a) Micronesia
 - (b) Melanesia
 - (c) Polynesia
 - (d) Hawaii Island chain
- **52.** Which of the following statements with regard to *Pradhan Mantri Krishi Sinchayee Yojana* (PMKSY) is/are correct?
 - 1. PMKSY was launched during 2015-16
 - 2. The basic aim of PMKSY is to enhance physical access of water on farm
 - 3. One of the main objectives of PMKSY is to achieve convergence of investments in irrigation at the field level

Select the correct answer using the code given below:

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

- 53. According to Article 79 of the Constitution of India, which of the following is/are described as a part of Parliament of India?
 - 1. The House of the People
 - 2. The Council of States
 - 3. The President of India

Select the correct answer using the code given below:

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3
- 54. The Five Year Plan was first launched in
 - (a) China
 - (b) USSR
 - (c) India
 - (d) Bhutan
- 55. The call for *Garibi Hatao* was incorporated in
 - (a) Fourth Five Year Plan
 - (b) Fifth Five Year Plan
 - (c) Sixth Five Year Plan
 - (d) Seventh Five Year Plan

56. Match List I with List II and select the correct answer using the code given below the Lists:

List I	List II
(Major	(Five Year
Objective)	Plan)

- A. Faster and more inclusive growth
- 1. First
- B. Faster, more inclusive and sustainable growth
- 2. Fifth
- C. Correction of disequilibrium caused by Second World War
- 4. Twelfth

3. Eleventh

D. Attaining self-reliance

Code:

	A	В	C	D	
(a)	3	1	4	2	
(p)	3	4	1	2	
(c)	2	4	15	3	
(d)	2	1	4	3	

- 57. Which one of the following Directive Principles was inserted by the Constitution (42nd Amendment) Act, 1976?
 - (a) The State shall minimise inequalities in income
 - (b) Equal justice and free legal aid
 - (c) Promotion of co-operative societies
 - (d) Provision for early childhood care

- 58. A common High Court for two or more states can be established by
 - (a a law passed by the Parliament
 - (b) an order of the Supreme Court of India
 - (c) an order of the President of India
 - (d) an amendment to the Constitution of India
- **59.** In the year 1928, a committee of Congress leaders drafted a Constitution for India. The Committee was headed by
 - (a) Mahatma Gandhi
 - (b) T. B. Sapru
 - (c) Motilal Nehru
 - (d) Jawaharlal Nehru
- **60.** Which one of the following statements about Jaipal Singh is NOT correct?
 - (a) He was a member of the Constituent Assembly
 - (b) He founded the Adivasi Maha Sabha
 - (c) He was the captain of the first Indian national hockey team
 - (d) He campaigned for a separate state of Chhattisgarh

61. What is 'Tikki Mausi' in the context of Malnutrition?	64. Which one of the following countries is called the 'country of winds'?
(a) A specially packaged food item	(a) India
(b) A mascot	(b) China
(c) Name of a scheme	(c) Denmark
(d) Name given to the healthcare providers	(d) Germany
62. Which one of the following was the theme of the World Tourism Day, 2019?	65. Which one of the following is the oldest scientific department of Government of India?
(a) Sustainable tourism	(a) Department of Rictainhalogy
(b) Tourism and the digital transformation	(a) Department of Biotechnology (b) Survey of India
(c) Tourism : responding to the challenge of climate change	(c) India Meteorological Department
Tourism and jobs: a better future for all	(d) DRDO
63. Which one of the following countries has hosted the Army Exercise TSENTR, 2019?	66. 'Naseem-Al-Bahr' is a bilateral naval exercise between India and
(a) Russia	(a) United Arab Emirates
(b) China	(b) Iran
(c) Kazakhstan	(c) Saudi Arabia
(d) Kyrgyzstan	•(d) Oman

- 67. Koneru Humpy excels in which one of the following sports?
 - (a) Boxing
 - (b) Table Tennis
 - (c) Chess
 - (d) Billiards
- 68. Which one of the following was the official mascot of Khelo India Youth Games, 2020?
 - (a) Vijaya
 - (b) Yaya
 - (c) Rongmon
 - (d) Ammu
- 69. In January 2020, a passenger aircraft crashed in Iran soon after taking off from Tehran's Imam Khomeini airport killing about 170 people onboard. The airplane belongs to
 - (a) Qatar Airways
 - Ukraine International Airlines
 - Singapore Airlines
 - (d) Cathay Pacific
- **70.** MILAN, a multilateral naval exercise, 2020 was hosted by which one of the following cities?
 - (a) Port Blair
 - (b) Kochi
 - (c) Visakhapatnam
 - (d) Panaji

- 71. Chalk and marble are different forms of
 - (a) Calcium hydrogen carbonate
 - (b) Calcium carbonate
 - (c) Calcium acetate
 - (d) Sodium carbonate
- 72. The number of maximum electrons in N Shell is
 - (a) 2
 - (b) 8
 - (c) 18
 - (d) 32
- 73. Vinegar is also known as
 - ethanoic acid
 - (b) nitric acid
 - (c) sulphuric acid
 - (d) tartaric acid
- A liquid is kept in a glass beaker. Which one of the following statements is correct regarding the pressure exerted by the liquid column at the base of the beaker?
 - (a) The pressure depends on the area of the base of the beaker
 - (b) The pressure depends on the height of liquid column
 - (c) The pressure does not depend on the density of the liquid
 - (d) The pressure neither depends on the area of the base of the beaker nor on the height of liquid column

- 75. Which of the following statements is NOT correct regarding the travel of sound waves?
 - (a) Sound waves can travel through water
 - (b) Sound waves can travel through air
 - (c) Sound waves can travel through steel
 - Sound waves can travel through
- 76. Deendayal Port is located at
 - (a) Kerala
 - (b) Gujarat
 - (c) Maharashtra
 - (d) Goa
- 77. Which one of the following cities is associated with Biosafety Protocol to the Convention on Biological Diversity (2000)?
 - (a) Geneva
 - (b) Nairobi
 - (c) Cartagena
 - (d) Rio de Janeiro
- 78. Krishna Raja Sagara Dam/Reservoir is developed on
 - (a) river Krishna
 - (b) river Tungabhadra
 - (c) river Godavari
 - (d) river Kavery

- which one of the following Indian states does NOT share international border with two or more countries?
 - (a) Arunachal Pradesh

(b) Assam

- (c) Mizoram
- (d) Tripura
- **80.** According to Census of India, 2011, which one among the following is the least populated state in India?
 - (a) Maharashtra

(b) Madhya Pradesh

Odisha

(d) Punjab

- The speakers of major Indian languages belong to how many language families?
 - (a) Two
 - (b) Three
 - (c) Four
 - (d) Six
- **82.** Where did Gandhiji initially forge the techniques of *Satyagraha*?
 - (a) England
 - South Africa
 - (c) North Africa
 - (d) India

- 83. Who was the Viceroy of India at the time of Gandhiji's Dandi march?
 - Lord Irwin
 - (b) Lord Linlithgow
 - (c) Lord Reading
 - (d) Lord Willingdon
- 84. Which one among the following American newsmagazines was highly sceptical of Gandhiji's Dandi march initially but within a week completely changed its opinion and saluted him as a Saint and Statesman?
 - (a) Saturday Evening Post
 - (b) Readers Digest
 - (c) Time
 - (d) Life
- **85.** In which of the following years were passenger trains introduced in England?
 - (a) 1823
 - (b) 1825
 - (c) 1848
 - (d) 1861

- 86. The correct relation between the radius of curvature R and focal length f of a spherical mirror is
 - (a) R = f
 - (b) R = 2f
 - (c) R = 3f
 - (d) R = 4f
- 87. A lemon kept in water in a glass tumbler appears to be larger than its actual size. It is because of
 - (a) reflection of light
 - (b) scattering of light
 - refraction of light
 - (d) polarization of light
- 88. Light enters the eye through a thin membrane called

retina

- (b) cornea
- (c) pupil
- (d) iris
- Name the scientist who first used a glass prism to obtain the spectrum of sunlight

(a) C. V. Raman

- (b) Lord Rayleigh
- (c) Isaac Newton
- (d) S. Chandrasekhar

- 90. The cost of energy to operate an industrial refrigerator that consumes 5 kW power working 10 hours per day for 30 days will be (Given that the charge per kW.h of energy = ₹ 4)
 - (a) ₹ 600
 - (b) ₹ 6,000
 - (c) ₹ 1,200
 - (d) ₹ 1,500
- **91.** Which one of the following statements regarding magnetic field is NOT correct?
 - (a) Magnetic field is a quantity that has direction and magnitude
 - (b) Magnetic field lines are closed curves
 - Magnetic field lines are open curves
 - (d) No two magnetic field lines are found to cross each other
- **92.** Which one of the following statements is NOT correct?
 - (a) Buckminsterfullerene is an allotrope of carbon
 - Diamond is a good conductor of electricity
 - Graphite is a good conductor of electricity
 - (d) In graphite, each carbon atom is linked to three other carbon atoms

- 93. How many covalent bonds are present in a Chloropropane molecule having molecular formula, C₃H₇Cl?
 - (a) 6 (b) 8
 - r (d) 10
- **94.** Which one of the following is the most fundamental characteristic of an element?
 - (a) Melting point
 - (b) Atomic number
 - (c) Colour
 - (d) Atomic weight
- 95. Neutrons were discovered by
 - (a) James Chadwick
 - (b) Ernest Rutherford
 - (c) J. J. Thomson
 - (d) John Dalton
- **96.** Atomic mass of an element is equal to the sum of number of
 - (a) electrons and protons only
 - protons and neutrons only
 - Ser electrons and neutrons only
 - (d) electrons, protons and neutrons

- 97. Which one of the following element's isotope is used in the treatment of cancer?
 - (a) Uranium
 - (b) Cobalt
 - (e) Sodium
 - (d) Iodine
 - 98. Which one of the following cell organelles may play a role in expelling excess water and wastes in case of unicellular organisms?
 - (a) Lysosome
 - (b) Vacuole
 - (c) Golgi body
 - (d) Endoplasmic reticulum
 - 99. Which one of the following terms describes the practice of growing two or more crops simultaneously on the same piece of land?
 - (a) Crop rotation
 - (b) Mixed cropping
 - (c) Intercropping
 - (d) Mixed farming

- 100. Which one of the following statements is correct about effects of antibiotics on viruses?
 - (a) Viruses are "non-living" entities but it can interact with antibiotics
 - (b) Taking antibiotics cures viral infections
 - (c) Viruses do not possess metabolic pathways on which antibiotics can function, whereas bacteria have such pathways
 - (d) Viruses are resistant to antibiotics
- 101. The Panama Canal opened in 1914, links
 - (a) Red Sea and Mediterranean Sea
 - (b) Atlantic Ocean and Pacific Ocean
 - (c) Indian Ocean and Pacific Ocean
 - (d) Adriatic Sea and Black Sea
- 102. The United Nations Charter was signed by 51 original members of the United Nations in 1945 at the
 - (a) Hague Conference
 - (b) London Conference
 - (c) San Francisco Conference
 - (d) Berlin Conference

- 103. Land Revenue Records maintained in India have categorized land-use into
 - (a) 6 categories
 - (b) 9 categories
 - (c) 15 categories
 - (d) 21 categories
- 104. Dry land farming in India is largely confined to areas with rainfall less than
 - (a) 100 cm
 - (b) 85 cm
 - (c) 80 cm
 - (d) 75 cm
- 105. For an area to be excluded from the drought-prone category, what percentage of its gross cropped area should be under irrigation?
 - (a) 10 per cent or more
 - (b) 20 per cent or more
 - (c) 25 per cent or more
 - (d) 30 per cent or more
- 106. Which one of the following is NOT a current of Pacific Ocean?
 - (a) Oyashio current
 - (b) Alaska current

- (c) Agulhas current
- (d) California current
- 107. The duration of monsoon in India extends for an average period of
 - (a) 80 140 days
 - (b) 100 120 days
 - (c) 90 130 days
 - (d) 100 140 days
- 108. Which one of the following is the natural vegetation of South east China?
 - (a) Subtropical broadleaf evergreen forest
 - (b) Tropical broadleaf evergreen forest
 - (c) Tropical deciduous forest
 - (d) Temperate evergreen forest
- 109. Which one of the following is a cold local wind?
 - (a) Santa Ana
 - (b) Chinook
 - (c) Mistral

(d) Loo

- 110. What was the consequence of Permanent Settlement on rural society in Bengal?
 - (a) The zamindars invested capital and enterprise to improve agriculture along lines of British yeoman farmers
 - (b) A group of rich peasants known as jotedars succeeded in consolidating their position in the villages
 - (c) The ryots prospered as a result of fixed revenue levy imposed on them
 - (d) The system of Collectorate introduced by the Company for exercising supervisory control on zamindars failed to take off
 - 111. What was Damin-i Koh in Rajmahal area?
 - (a) A large area of land demarcated and declared to be the land of the Santhals
 - (b) The land of the Paharias cultivated exclusively for paddy
 - (c) The British territory marked for their military camp
 - (d) The land earmarked for locating settled agriculturists

- 112. Which one of the following statements about the Revolt of 1857 is correct?
 - It was a Revolt carefully organised and planned by the Rajas, Nawabs and Taluqdars
 - (b) Rumours and prophecies did not play any role in its outbreak and spread
 - (c) The rebel proclamations in 1857 repeatedly appealed to all sections of the population irrespective of their caste and creed.
 - (d) The British succeeded in quickly and easily controlling the rebels
 - 113. Which one among the following was NOT a *Panch Sheel* principle?
 - (a) Peaceful Co-existence
 - (b) Mutual respect for territorial integrity
 - (c) Nuclear deterrence
 - (d) Non-interference in internal affairs
 - 114. Who among the following had organised, in 1904, a secret society of revolutionaries named *Abhinav Bharat*?
 - (a) Khudiram Bose
 - (b) Shyamji Krishna Verma
 - (c) Har Dayal
 - (d) V D Savarkar

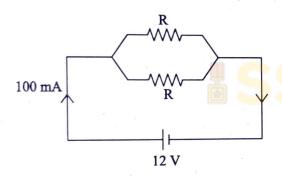
- 115. The principle that the framing of the new Constitution for independent India should be primarily (though not solely) the responsibility of Indians themselves, was for the first time conceded in the
 - (a) Government of India Act, 1935
 - (b) August Offer of Viceroy Linlithgow
 - (c) Cripps Proposals
 - (d) Cabinet Mission
- 116. Which one of the following is a major environmental issue in eastern Canada?
 - (a) Acid precipitation
 - (b) Groundwater depletion
 - (c) Land degradation
 - (d) Desertification
- 117. Which one of the following mountains lies in between Caspian Sea and Black Sea?
 - (a) Caucasus
 - (b) Carpathians
 - (c) Apennine
 - (d) Elburz

- 118. Bagalihar, Dulhasti and Salal hydro power projects have been developed on which of the following rivers?
 - (a) Chenab and Jhelum
 - (b) Chenab and Indus
 - (c) Ravi
 - (d) Chenab only
- 119. Which of the following statements with regard to Biosphere Reserve is/are correct?
 - 1. The idea of Biosphere Reserve was initiated by UNESCO in 1973-74
 - 2. There are 18 designated Biosphere Reserves in India
 - 3. All Biosphere Reserves in India have been included in world network of Biosphere Reserves of UNESCO

Select the correct answer using the code given below:

- (a) 1 only
- (b) 2 only
- (c) 1 and 2 only
- (d) 1, 2 and 3
- 120. Which one of the following countries does NOT have direct access to the sea/ocean?
 - (a) Syria
 - (b) Jordan
 - (c) Azerbaijan
 - (d) Armenia

- 121. In an incandescent electric bulb, the filament of the bulb is made up of which metal?
 - (a) Aluminium
 - (b) Copper
 - (c) Tungsten
 - (d) Silver
- 122. Two equal resistors R are connected in parallel, and a battery of 12 V is connected across this combination. A dc current of 100 mA flows through the circuit as shown below:



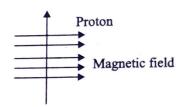
The value of R is

- (a) 120Ω
- (b) 240 Ω
- (c) 60 Ω
- (d) 100Ω
- 123. Which one of the following is NOT the unit of energy?
 - (a) Joule
 - Watt-hr
 - (c) Newton-metre
 - (d) kg-metre/sec²

- 124. Which one of the following statements is NOT correct?
 - (a) Biomass is a renewable source of energy
 - (b) Gobar gas is produced when cowdung, crop residues, vegetable waste and sewage are allowed to decompose in the absence of oxygen
 - Biogas generation reduces soil and water pollution
 - (d) Heating capacity of biogas is very low
- region is not surrounded by a membrane. This undefined nuclear region is known as
 - (a) Nucleic acid
 - (b) Nucleoid
 - (c) Nucleolus
 - (d) Nucleosome
- 126. Which one of the following plant tissues has dead cells?
 - (a) Epidermis
 - (b) Parenchyma
 - (c) Collenchyma
 - (d) Sclerenchyma

- 127. Cartilage is NOT found in
 - (a) larynx
 - (b) nose
 - (c) ear
 - (d) urinary bladder
- 128. Two planets orbit the Sun in circular orbits, with their radius of orbit as $R_1 = R$ and $R_2 = 4R$. Ratio of their periods (T_1/T_2) around the Sun will be
 - (a) 1/16
 - (b) 1/8
 - (o) 1/4
 - (d) 1/2
- 129. A metallic wire having resistance of 20Ω is cut into two equal parts in length. These parts are then connected in parallel. The resistance of this parallel combination is equal to
 - (a) 20Ω
 - (b) 10 Ω
 - (c) 5 Ω
 - (d) 15 Ω
- 130. Light of uniform intensity impinges perpendicularly on a totally reflecting surface. If the area of the surface is halved, the radiation force on it will become
 - (a) double
 - (b) half
 - (c) four times
 - (d) one fourth

- 131. The part of the human eye on which the image is formed is
 - (a) pupil
 - (b) cornea
 - c(c) retina
 - (d) iris
- 132. Consider the following image:



A proton enters a magnetic field at right angles to it, as shown above. The direction of force acting on the proton will be

- (a) to the right
- (b) to the left
- (c) out of the page
- (d) into the page
- **133.** Which one of the following statements about sound is NOT correct?
 - (a) Sound travels at a speed slower than the speed of light
 - (b) Sound waves are transverse waves
 - (e) Sound waves are longitudinal waves
 - (d) Sound travels faster in moist air than in dry air

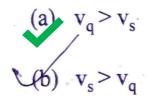
- 134. When the short circuit condition occurs, the current in the circuit
 - (a) becomes zero
 - (b) remains constant
 - (c) increases substantially
 - (d) keeps on changing randomly
- 135. Which one of the following is NOT a component of human male reproductive system?
 - (a) Cervix
 - (b) Urethra
 - (c) Seminal vesicle
 - (d) Vas deferens
- 136. Which one of the following is NOT a reason of decrease in biodiversity?
 - (a) Large scale deforestation
 - (b) Exploitation of forest produce
 - Maintaining sacred groves
 - (d) Encroachment in forest areas
- 137. Which one of the following is NOT a cause of depletion in groundwater?
 - (a) Afforestation
 - (b) Loss of forests
 - (c) Excessive pumping of groundwater
 - (d) Construction of large scale concrete buildings

- Which one of the following types of radiations has the smallest wavelength?
 - (a) Microwaves
 - (b) Infra-red
 - (c) Visible light
 - (d) X-rays
- 139. The instrument used for detecting the presence of electric current in a circuit is
 - (a) Refractometer
 - (b) Galvanometer
 - (c) Viscometer
 - (d) Diffractometer
- 140. Which one of the following is the largest composition in biogas?
 - (a) Carbon dioxide
 - Methane
 - (c) Hydrogen
 - (d) Hydrogen sulphide
- 141. The Sun appears reddish during sunrise and sunset. The phenomenon in optics which is responsible for this appearance of the Sun is
 - (a) Reflection
 - (b) Total internal reflection
 - (c) Scattering
 - (d) Interference

- 142. A lens has a power of +2.0 Dioptre. Which one of the following statements about the lens is true?
 - (a) The lens is concave and has a focal length of 0.5 metre
 - (b) The lens is convex and has a focal length of 2.0 metre
 - The lens is convex and has a focal length of 0.5 metre
 - (d) The lens is concave and has a focal length of 2.0 metre
 - 143. At nearly 70°C, sodium bicarbonate shows the property of gradually decomposing, which makes it usable in bakery products. The product of decomposition responsible for this use of sodium bicarbonate is
 - (a) Carbon dioxide
 - (b) Hydrogen
 - (c) Water vapour
 - (d) Oxygen
 - 144. Number of molecules of water of crystallization in copper sulphate, sodium carbonate and Gypsum are
 - (a) 5, 10 and 2 respectively
 - (b) 10, 2 and 5 respectively
 - (c) 5, 2 and 10 respectively
 - (d) 2, 5 and 10 respectively

- 145. Which one of the following is the correct sequence of change in colours when a turmeric stain on white clothes is scrubbed by soap and then washed with water?
 - (a) Yellow pink blue
 - Yellow reddish brown yellow
 - (c) Yellow reddish brown blue
 - (d) Yellow blue pink
 - 146. Which one of the following statements regarding Bleaching powder and D.D.T. is correct?
 - (a) Both are inorganic compounds
 - (b) Both are organic compounds
 - (c) Both contain chlorine
 - (d) Both contain calcium
 - **147.** Which one of the following is the best example of desiccant?
 - (a) Silica gel
 - (b) Polystyrene
 - (c) Sodium chloride
 - (d) Sodium carbonate
 - **148.** Which one of the following was the first mineral acid discovered?
 - (a) Sylphuric acid
 - (b) Hydrochloric acid
 - (c) Nitric acid
 - (d) Phosphoric acid

149. The refractive index of fused quartz is 1.46 and that of sapphire is 1.77. If v_q is the speed of light in quartz and v_s is the speed of light in sapphire, then which one of the following relations is correct?



(c)
$$v_s = v_q$$

(d)
$$v_s = \frac{v_q}{2}$$



- 150. In case of a concave mirror, if an object is kept between principal focus F and pole P of the mirror, then which one of the following statements about the image is NOT correct?
 - (a) The image will be virtual
 - (b) The image will be enlarged or magnified
 - (c) The image will be formed at infinity
 - (d) The image will be erect



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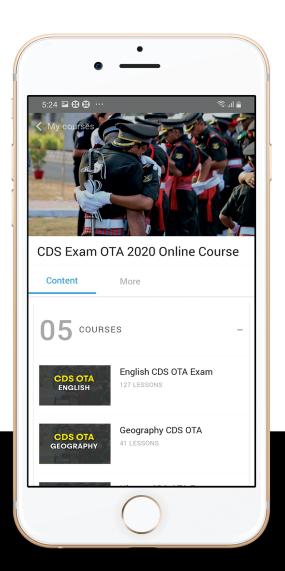
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