DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO TEST BOOKLET GENERAL STUDIES Paper-I Time Allowed: Two Hours Maximum Marks: 200

INSTRUCTIONS

- 1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION YOU SHOULD CHECK THAT THE TEST BOOKLET *DOES NOT* HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC, IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
- 2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series A, B, C or D carefully and without any omission or discrepancy at the appropriate place in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.
- 3. You have to enter your Roll Number on the Test Booklet in the
 Box provided alongside . DO NOT write anything else on the Test Booklet.
- 4. This Test Booklet contains **100** items (questions). Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose *ONLY ONE* response for each item.
- 5. You have to mark all your responses ONLY on the separate Answer Sheet provided.
- 6. **All** items carry equal marks.
- 7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
- 8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the invigilator only the *Answer Sheet*. You are permitted to take away with you the Test Booklet.
- 9. Sheets for rough work are appended in the Test Booklet at the end.
- 10. Penalty for wrong Answers:

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.

- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to that question will be deducted as penalty.
- (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
- (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

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- 1. Which one of the following is not an ASEAN member?
- (a) Cambodia
- (b) Laos
- (c) Myanmar
- (d) Taiwan
- 2. Heat given to a body which raises its temperature by 1 oC is known as
- (a) water equivalent
- (b) thermal capacity
- (c) specific heat
- (d) temperature gradient
- 3. Growth and repair of damaged tissue involve
- (a) mitotic cell division only
- (b) both mitotic and meiotic cell divisions
- (c) meiotic cell division only
- (d) amitotic cell division only
- 4. Rotterdam of Netherlands is largely famous for
- (a) textiles
- (b) dairying
- (c) ship building
- (d) paper industry
- 5. If the motion of an object is represented by a straight line parallel to the time axis in a distance-time graph, the the object undergoes
- (a) an accelerated motion
- (b) a decelerated motion
- (c) a uniform non-zero velocity motion
- (d) a zero velocity motion

- 6. Which one of the following is not a function of liver?
- (a) Conversion of glucose into glycogen
- (b) Production of urea
- (c) Destruction of dead and worn out red blood
- (d) Absorption of food and excess water from the undigested food
- 7. Which one of the following is the correct sequence of economic sectors in terms of their contribution to the GDP of India in decreasing order
- (a) Serviec-Industry-Agriculture
- (b) Agriculture-Industry-Service
- (c) Industry-Service-Agriculture
- (d) Agriculture-Service-Industry
- 8. Which one of the following is not a part of female reproductive system?
- (a) Fallopian tube
- (b) Cervix
- (c) Urethra
- (d) Vagina
- 9. If a news is broadcast from London at 1:45 p.m. on monday, at what time and on what day it will be heard at Dhaka (900 E)?
- (a) 7:45 p.m. on Monday
- (b) 7:45 a.m. on Monday
- (c) 7:45 p.m. on Tuesday
- (d) 7:45 a.m. on Sunday
- 10. Which one of the following are the correct parameters for the common domestic power supply in India?

(a) 220 V, 110 Hz	(a) Oxygen		
(b) 220 V, 50 Hz	(b) Nitorgen		
(c) 110 V, 220 Hz	(c) Hydrogen		
(d) 110 V, 50 Hz	(d) Methane		
11. Which one of the following animals is coldblooded?	15. Leprosy is caused by		
(a) Dolphin	(a) virus		
(a) Dolphin	(b) bacteria		
(b) Shark	(c) protozoa		
(c) Whale	(d) retrovirus		
(d) Porpoise12. Match List-I with List-II and select the correct answer using the code given below the Lists	16. A topographical map with scale 1:50000 indicates 1 cm to		
List-I List-II	(a) 50 km		
(Geographical feature) (Type of geographical process)	(b) 500 m		
A. Cirque 1. Erosional feature of wind B. Yardang 2. Depositional feature of	(c) 50 m		
glacier C. Barkhan 3. Depositional feature of wind	(d) 5 km		
D. Drumlin 4. Erosional feature of glacier	17. Light waves projected on oil surface show seven colours due to the phenomenon of		
Code			
(a) A-4, B-1, C-3, D-2	(a) polarization		
(b) A-4, B-3, C-1, D-2	(b) refraction		
(c) A-2, B-3, C-1, D-4	(c) reflection		
(d) A-2, B-1, C-3, D-4	(d) dispersion		
13. A ray of light travels from a medium of refractive indes of n1 to a medium of refractive index n2. If angle of incidence is i and angle of refraction is r, the sin i/sin r is equal to	18. How many noble gases are there?		
	(a) 4		
(a) n1	(b) 5		
(b) n2	(c) 6		
(c) n2/n1	(d) 7		
(d) n1/n2	19. Which one among the following is a plant		
14. A sample of gas is to be identified by means of its behaviour in the presence of a glowing splint. Which of the following gases will neither itself burn nor cause the splint to burn	hormone? (a) Insulin		

(b) Thyroxin	(c) doldrum	
(c) Gibberellin	(d) easterly	
(d) Estrogen	25. Two bodies A and B having masses m and 4m respectively are moving with equal linear momentum. The ratio of kinetic energies between A and B is	
20. Quartzite is metamorphosed from		
(a) limestone	(a) 1 : 4	
(b) plutonic rock	(b) 4 : 1	
(c) sandstone		
(d) shale	(c) 1 : 1	
21. Which one of the following processes explains	(d) 1:2	
the splitting of a beam of white light into its constituent colours?	26. Optical glass used in the construction of spectacles is made by	
	4 2 50 4 4	
(a) Dispersion	(a) flint glass	
(b) Reflection	(b) Crookes glass	
(c) Diffraction	(c) quartz glass	
(d) Polarization	(d) hard glass	
22. The very high heat of vaporization of water is mainly a result of	27. Which one of the following cell organelles is absent in animal cell?	
(a) van der Waals forces	(a) Cell membrane	
(b) covalent bonds	(b) Endoplasmic reticulum	
(c) interionic attraction	(c) Cell wall	
(d) hydrogen bonding	(d) Mitochondria	
23. Which one of the following groups of plants can be used as indicators of SO2 pollution of air?	28. Which one of the following is a warm ocean current?	
(a) Ferns	(a) Labrador current	
(b) Mentha	(b) Kuroshio current	
(c) Lichens	(c) Peru current	
(d) Hornworts	(d) Benguela current	
24. The permanent wind that blows from the horse latitude to the equatorial region is known as	29. The burning sensation of a bee sting can be stopped by rubbing the affected area with soap. This is because	
(a) westerly (b) trade wind	(a) a bee sting is acidic and soap, an alkali neutralizes it	

- (b) A bee sting is alkaline and soap, an acid, neutralizes it
- (c) soap cleans the affected area and removes the sting
- (d) soap acts as an anesthetic and dulls the sensation
- 30. Consider the following statements
- 1. Carbohydrates are the only source of energy to humans
- 2. Fats give maximum energy on oxidation as compared to other foods

Which one of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 31. The palce located at the confluence of Alaknanda and Bhagirathi rivers is
- (a) Badrinath
- (b) Rishikesh
- (c) Rudraprayag
- (d) Devprayag
- 32. Light waves are
- (a) electro-maechanical waves
- (b) electro-magnetic waves
- (c) electro-optical waves
- (d) magneto-optical waves
- 33. A sample of carbon dioxide that undergoes a transformation from soild to liquid and then to gas would undergo
- (a) a change in mass
- (b) a change in density
- (c) a change in composition
- (d) no change in physical properties

- 34. Which one of the following pairs of power projects is not correctly matched?
- (a) Papanasam Hydropower
- (b) Neyveli Hydropower
- (c) Ukai Thermal power
- (d) Rana Pratap Sagar Hydropower
- 35. In the term GIS, 'G' stands for
- (a) Global
- (b) Geographic
- (c) Geographical
- (d) Geological
- 36. A thermodynamic process where no heat is exchanged with the surroundings is
- (a) isothermal
- (b) adiabatic
- (c) isobaric
- (d) isotropic
- 37. Which one of the following is the correct sequence of oil refineries in India in respect of their time of establishment (starting form the earliest)?
- (a) Barauni-Haldia-Guwahati-Mathura
- (b) Barauni-Mathura-Guwahati-Haldia
- (c) Guwahati-Haldia-Mathura-Barauni
- (d) Guwahati-Barauni-Haldia-Mathura
- 38. Which one of the following circuit elements is an active component?
- (a) Resistor
- (b) Transistor
- (c) Inductor
- (d) Capacitor

- 39. Movement of tides are mostly determined by
- (a) albedo effect
- (b) wind velocity
- (c) rotation of the Earth
- (d) revolution of the Earth
- 40. Farenheight and Celcius are the two scales used for measuring temperature. If the numerical value of a temperature recorded in both the scale is found to be same, what is the temperature?
- (a) 40o
- (b) + 400
- (c) + 720
- (d) 72o
- 41. Turpentine oil in paints is used as a
- (a) pigment
- (b) film-forming material
- (c) thinner
- (d) drier
- 42. Match List-I with List-II and select the correct answer using the code given below the Lists

List-I List-II
(Textile industry) (Place)
A. Woolen textile 1. Sualkuchi
B. Cotton textile 2. Rishra
C. Silk textile 3. Ludhiana
D. Jute textile 4. Davangere

Code

- (a) A-3, B-4, C-1, D-2
- (b) A-2, B-1, C-4, D-3
- (c) A-2, B-4, C-1, D-3
- (d) A-3, B-1, C-4, D-2
- 43. Kerosene oil rises in a wick of lantern because of

- (a) buoyancy of air
- (b) diffusion of the oil through the wick
- (c) capillary action in the wick
- (d) gravitational pull of the wick
- 44. Which of the following sequences is correct for rainfall?
- (a) Slow ascent of air -> slow condensation -> heavy downpour
- (b) Rapid ascent of air -> large raindrops -> heavy downpour
- (c) Pressure decreased -> air compressed -> heavy downpour
- (d) Descent of air -> air warmed -> heavy downpour
- 45. The working of a microwave oven involves
- (a) absorption of microwaves by matter
- (b) reception of microwaves by optical fibre
- (c) microwave amplification by stimulated emission of radiation
- (d) transmission of microwaves through a metal
- 46. What would be the total population at the end of the year if population at the beginning of the year is 5000 and the populated changed during the year is -birth 250, death 60, immigration 30 and emigration 15?
- (a) 5205
- (b) 5235
- (c) 5310
- (d) 5180
- 47. Two cars A and B have masses mA and mB respectively, with mA > mB. Both the cars are moving in the same direction with equal kinetic energy. If equal braking force is applied on both, then before coming to rest
- (a) A will cover a greater distance
- (b) B will cover a greater distance

- (c) both will cover the same distance
- (d) distance covered by them will depend on their respective velocities
- 48. If the length of the Equator is about 40000 km and the velocity of rotation is about 1700 km per hour, what would be the velocity of rotation at the Pole?
- (a) Zero
- (b) 850 km/hr
- (c) 1700 km/hr
- (d) 3400 km/hr
- 49. Consider the following two two statements
- 1. Newtons first law in valid from the pilot in an aircraft which is taking off
- 2. Newtons first law in valid from the observer in a train moving with constant velocity

Which of the above two statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 50. A cyclotron accelerates particles of mass m and charge q. The energy of particles emerging is proportional to
- (a) q2/m
- (b) q/m2
- (c) q2/m2
- (d) q
- 51. Which of the following region is facing worst illegal refugee and migrant crisis since World War II?
- (a) North America
- (b) South Asia
- (c) West Asia
- (d) Europe

- 52. Corporation tax is levied by the
- (a) State and appropriated by it
- (b) Union and collected and appropriated by the State
- (c) Union and shared by the Union and State
- (d) Union and belongs to it exclusively
- 53. The Dinesh Goswami Committee was concerned with
- (a) Nationalisation of Banks
- (b) Electoral Reforms
- (c) Problem of Chakma people
- (d) Steps to put down insurgency in North-East
- 54. MERCOSUR consists of group of
- (a) Africa
- (b) Asia
- (c) Latin America
- (d) South East Asia
- 55. In India, the first Bank of Limited Liability managed by Indians and founded in 1881 was
- (a) Hindustan Commercial Bank
- (b) Oudh Commercial Bank
- (c) Punjab National Bank
- (d) Punjab and Sind Bank
- 56. Which of the following statements are correct?
- 1. The Sendai Framework is related to disaster reduction
- 2. It is a a 15-year non-binding agreement which recognizes that the State has the primary role to reduce disaster risk
- 3. The Sendai Framework is the successor instrument to the Hyogo Framework for Action (HFA) 2005-2015: Building the Resilience of Nations and Communities to Disasters
- (a) 1 only

(b) 1 and 2	(a) Kanha Tiger reserve Madhya Pradesh		
(c) 1 and 3	(b) Wildlife Institute of India Dehradun		
(d) 1, 2 and 3	(c) Bandipur Tiger reserve Karnataka		
57. Which of the following statements are correct?	(d) Ranthambore Tiger reserve Rajasthan		
 The Sampoor power project is a joint venture between India and Sri Lanka It is hydro power project 	62. Ratio of country's export prices to its import prices is called		
(a) 1 only (b) 2 only	(a) relative price ratio		
	(b) trade ratio		
	(c) terms of trade		
(c) Both 1 and 2 (d) Neither 1 nor 2	(d) benefit ratio		
	63. The balance of payment is		
58. The seat of a Member of Parliament who absents himself from sessions without permission for days can be declared vacant	(a) a systematic record		
(a) 30 days	(b) all the outside transactions are included		
(a) 50 days (b) 60 days	(c) listing receipts and payments in a given period		
(c) 45 days	(d) all of these		
(d) 90 days	64. AUTARKY is a state of		
59. Which of the following has highest energy?	(a) Trade between friendly nations		
33. Which of the following has highest energy:	•		
(a) Blue Light	(b) No trade between nations		
(b) Green Ligh	(c) Trade between neighbouring countries		
(c) Red Light	(d) No trade because no gain from trade		
(d) Yellow Light	65. Which among the following was Harappan trading centre?		
60. The marine animal called Dugong which is vulnerable to extinction is a/an	(a) Lothal		
(a) Amphihian	(b) Kalibangan		
(a) Amphibian	(c) Harappa		
(b) Bony Fish	(d) Mohenjodaro		
(c) Shark			
(d) Mammal			
61. India's first repository on tigers is being set up in			

66. Which of the following statements are correct? 71. Arrange the following in chronological order 1. In pancreas, Insulin is secreted by Beta cells of 1. Third Round Table Conference islets of Langerhans 2. Communal Award 2. In pancreas, Glucagon is producd by Alpha cells 3. Poona Pact of islets of Langerhans 4. Gandhi-Irwin Pact (a) 1 only (a) 1, 3, 2 and 4 (b) 2 only (b) 4, 2, 3 and 1 (c) Both 1 and 2 (c) 2, 4, 1 and 3 (d) Neither 1 nor 2 (d) 4, 3, 1 and 2 67. The molecular tool for Genetic Engineering is 72. Which of the following statements is not correct in the context of National Rural (a) Hormones **Employment Programme?** (b) Enzymes (a) It is a centrally sponsored scheme (c) Pheromones (b) It aims at creating larger avenues of (d) Vectors employment for the rural poor 68. Which of the following statements are correct? (c) Under it wages are paid partly in cash and partly in foodgrains 1. Oxybenzone has been related to the killing of coral reefs (d) It provides employment opportunities only to the members of the scheduled caste and 2. It is a chemical used in sunscreen lotions scheduled tribe families (a) 1 only 73. Cells that initiate blood clotting is (b) 2 only (c) Both 1 and 2 (a) RBC (d) Neither 1 nor 2 (b) WBC 69. Article 124 of the Constitution deals with (c) Thrombocytes (d) Nerve cells (a) the powers of the Prime Minister 74. Which of the following was called as 'Dandi of (b) the amendment procedure Tamil Nadu'? (c) the Supreme Court of India (a) Vedaranyam (d) the election of the Prime Ministe (b) Thirunelveli 70. Tablig movement was started by (c) Cuddalore (a) Mohammad Ali (d) Mahabalipuram

(b) Shaukat Ali

(c) Muhammad Ilyas al-Kandhlawi

(d) Maulan Abul Kalam Azad

- 75. The predominant element present in the alloy, Chromel is
- (a) Chromium
- (b) Nickel
- (c) Manganese
- (d) Copper
- 76. Which of the following committee was formed to restructure the water agencies?
- (a) Mihir Singh committee
- (b) Srinivasan committee
- (c) Mihir Shah committee
- (d) Ramachandran committee
- 77. Who has become only the 2nd Indian artist after Subbulakshmi to perform at the UN?
- (a) Asha Bhonsle
- (b) Lata Mangeshkar
- (c) A.R. Rahman
- (d) Arijit Singh
- 78. "Sugamya Bharat Abhiyaan" is related to
- (a) Sanitation
- (b) Clean Drinking Water
- (c) Universal Immunization
- (d) Disabled Friendly
- 79. Which of the following is the first Nuclear Suppliers' insurance policy for Right to Recourse'?
- (a) India Nuclear Insurance Fund
- (b) India Nuclear Disaster Pool
- (c) India Nuclear Insurance Pool
- (d) India Nuclear Disaster Fund

- 80. "Mothers' Absolute Affection (MAA)" to promote breast-feeding programme has been launched by the Ministry of
- (a) Health and Family Welfare
- (b) Women and Child Development
- (c) Tribal Affairs
- (d) Minority Affairs
- 81. India's first underground museum was opened at
- (a) Red Fort
- (b) Humayun's Tomb
- (c) Fatehpur Sikri
- (d) Rashtrapati Bhavan
- 82. Dengue virus is known to cause low platelet count in blood of patient by
- 1. interfering in the process of platelet production in bone marrow
- 2. infecting endothelial cells
- 3. binding with platelets
- 4. accumulating platelets in intestines

Select the correct answer using the code given below:

Codes:

- (a) 1 and 2
- (b) 1 and 3
- (c) 3 and 4
- (d) 1, 2 and 3
- 83. 'German silver' is used to make decorative articles, coinage metal, ornaments etc. The name is given because
- (a) it is an alloy of copper and contains silver as one of its components
- (b) Germans were the first to use silver
- (c) its appearance is like silver
- (d) it is an alloy of silver

- 84. Plants contain a variety of sterols like stigmasterol, ergosterol, sitosterol etc., which very closely resembel cholesterol. These plant sterols are referred to as
- (a) Phytosterols
- (b) Calciferols
- (c) Ergocalciferols
- (d) Lumisterols
- 85. Narmada Nidhi, is a newly developed breed of disease-resistant
- (a) Sheep
- (b) Cow
- (c) Goat
- (d) Chicken
- 86. 'Vikalp' scheme is related to
- (a) LPG connection
- (b) Opening of Bank Account
- (c) Post Office Saving Scheme
- (d) Alternative train accommodation scheme for waitlisted passengers
- 87. In artificial insemination (AI) process, which of the following is/are introduced into the uterus of the female?
- (a) Egg only
- (b) Fertilized egg
- (c) Sperm only
- (d) Egg and sperm
- 88. Genetically modified (GM) crops contain modified genetic material due to
- 1. introduction of new DNA
- 2. removal of existing DNA
- 3. introduction of RNA
- 4. introduction of new traits

Select the correct answer using the code given below:

codes:

- (a) 1 and 2
- (b) 1, 2 and 3
- (c) 3 and 4
- (d) 1, 2 and 4
- 89. Which one of the following statements is not correct?
- (a) Sound waves in gases are longitudinal in nature
- (b) Sound waves having frequency below 20 Hz are known as ultrasonic waves
- (c) Sound waves having higher amplitudes are louder
- (d) Sound waves with high audible frequencies are sharp
- 90. Which of the following statements are correct?
- 1. The Mahatma Gandhi National Marine Park is located in Andaman Islands
- 2. Reunion island is of volcanic origin
- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 91. Which one of the following hormones contains peptide chain?
- (a) Oxytocin
- (b) Corticotropin
- (c) Insulin
- (d) Cortisone
- 92. Which one of the following is the cause of long-term sea-level change?
- (a) Atmospheric disturbance
- (b) Change in marine water density

- (c) Melting of icebergs
- (d) Melting of ice sheets
- 93. Which of the following statements are correct?
- 1. All Jammu & Kashmir Muslim Conference was launched by Sheikh Abdullah in 1932
- 2. It espoused a secular ideology and wished to create a secular, democratic but independent Kashmir with close ties to British India
- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 94. What, according to Dadabhai Nauroji, constituted the substance of the 'drain of wealth' from India?
- (a) Taxation of Peasants by the Government
- (b) Direct looting and plunder of the Indians by the British
- (c) Export-Surplus or excess of exports over imports in return for which India did not receive any goods or services
- (d) Government's control and ownership of lands in India
- 95. Who was the president of the All-India State People's Conference at the time of Indian Independence?
- (a) Jawaharlal Nehru
- (b) Vallabhbhai Patel
- (c) C. Rajgopalachari
- (d) Sheikh Abdullah
- 96. After leaving the Congress Party Subhash Chandra Bose founded
- (a) Forward Bloc
- (b) Swaraj Party
- (c) Congress Socialist Party
- (d) INA

97. Match List I with List II and select the corret answer

List I - List II

- A. Simla Conference 1. 1942
- B. Cripps Mission 2. 1945
- C. Mountbatten Plan 3. 1946
- D. Cabinet Mission 4. 1947
- (a) A-1, B-3, C-2, D-4
- (b) A-2, B-1, C-4, D-3
- (c) A-3, B-2, C-1, D-4
- (d) A-1, B-2, C-3, D-4
- 98. 'Forget not that the lower classes, the ignorant, the poor, the illeterate, the cobbler, the sweeper, are thy flesh and bolld, thy brothers.' was said by
- (a) Rammohan Roy
- (b) Bankim Chandra
- (c) Vivekananda
- (d) Dayanand Saraswati
- 99. Match List I with List II and select the corret answer

List I - List II

- A. Vernacular Press Act of 1878 1. Lord Chelmsford
- B. Indian Universities Act of 1904 2. Lord Curzon
- C. Indian Council Act of 1909 3. Lord Lytton
- D. Act of 1919 4. Lord Minto
- (a) A-1, B-4, C-3, D-2
- (b) A-2, B-3, C-1, D-4
- (c) A-3, B-2, C-1, D-4
- (d) A-3, B-2, C-4, D-1
- 100. The Gandhi-Irwin Pact did not include
- (a) The right to make salt
- (b) The right to peacefule and non-aggressive picketing
- (c) Pardoning of the death-sentence of Bhagat Singh
- (d) Release of all political prisoners not convicted for violence

Answer Sheet

A B C D 1 () () () 2 () () () 3 () () () 4 () () () 5 () () ()	A B C D 21	A B C D 41 0 0 0 42 0 0 0 43 0 0 0 44 0 0 0 45 0 0 0	A B C D 61	A B C D 81 () () 82 () () 83 () () () 84 () () () 85 () ()
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