



# कौटिल्य एकेडमी

## UPSC Prelims – 2021

### Answers with Explanation (Set - B)

1. Bhavabhuti, Hastimalla and Kshemeshwara  
Ans. (b) Bhavabhuti– Famous Playwright from Maharashtra, his plays are (8<sup>th</sup> century) considered equal to that of Kalidasa famous plays include Malatimadhava. Rest both are very obscure.
2. Montagu Chelmsford reforms GOI Act 1935.  
Ans. (b) • Women did not get any voting rights at all in GOI Act 1919.  
• The GOI Act 1935 provided special quotas for women in provincial legislatures. They were given seats in the lower house, but were excluded from the upper house.
3. 8<sup>th</sup> August 1942, Indian History  
Ans. (a) After a electrifying speech at Gowalia Maidan by Gandhiji on 8<sup>th</sup> August 1942, where he gave the cry of 'Do or Die', the All India Congress Committee passed the 'Quit India Resolution' on 8<sup>th</sup> August 1942.
4. 'Song from Prison'  
Ans. (c) There song's were written by Gandhiji, during his imprisonment in Yerwada Jail in 1932.
5. Ascending order of Pargana–Sarkar–Suba  
Ans. (a) • Pargana was a sub-district and smallest in size.  
• Sarkar can be considered a district.  
• Suba was largest unit and both Sarkar and Pargana were part of it. Therefore the ascending order should be: Pargana–Sarkar–Suba.
6. Hindu Female School, Secretary–  
Ans. (c) Bethune College is located in Kolkata.  
• It was established in 1849.  
• Ishwar Chandra Vidhyasagar served as the secretary of the school till 1858.
7. Shah Nawaz Khan, Prem Kumar Sehgal, Gurbaksha Singh Dhillon  
Ans. (d) • All three were part of the Indian National Army and became famous because they were the first three people to be tried by the British in the historic Red Fort Trial's.  
• They fostered communal unity because – One was Muslim – One was Sikh – One was Hindu.
8. Statement's regarding Nizam of Arcot, Mysore Kingdom and Rohilkhand Kingdom.  
Ans. (b) 1. Nizam of Arcot was established by Mughal Emperor Aurangzeb and was the legal dependency of the Nizam of Hyderabad, it did not emerge from the Hyderabad state.  
2. The Kingdom of Mysore was established by the Woodeyars in 1399, it was a vassal state of the Vijaynagar Empire, after the decline of Vijaynagar, Chikka Devaraja Woodeyar established a powerful kingdom in the Deccan.  
3. Rohilkhand Kingdom was formed out of the collapsing Mughal Empire in 1921 and existed till 1774.
9. Caves and the Gorges in which they are located.  
Ans. (a) Ajanta caves in Aurangabad district, lies in a gorge where the Waghora river flows.  
Rest all statements are not correct.
10. Statement regarding UNICEF  
Ans. (c) 1. First statements is correct. To promote awareness and linguistic diversity in the world 21<sup>st</sup> February is celebrated as International Mother Language Day.  
2. After formation of Pakistan, there was constant demand from East Pakistan's that Bangla, should get constitutional status. This demand was granted on May 7, 1954.
11. Chausath Yogini Mandir at Morena.  
Ans. (c) • This temple is located in Mitauli Village in Morena.  
• Built by King Devpala (1055–1025 A.D.) of the Kachchhapaghata dynasty.  
• It is built in circular fashion.  
• It is not the only circular temple in India.  
• Many visitors is this temple compare it's design to the Sansad Bhawan.  
• It contains Shivlinga.
12. Famous Harappan site.  
Ans. (a) • Dholavira is famous for its sophisticated water conservation system of channels and reservoirs, the earliest found anywhere in the world.  
• Dholavira is located in Kutch district of Gujarat.  
• It is considered to be an engineering marvel.
13. English factories between 1600–1625.  
Ans. (a) 1. The factory at Broach was established in 1623.  
2. No data is found on Chitacole.  
The best possible answer can be (a) 1 only.
14. Decline of Gupta's.  
Ans. (b) • Decline of Gupta's (Around – 450 A.D.)  
• Rise of Harsha (Around – 600 A.D.) A Gap of 150 years  
• Gupta's of Magadha ruled between this time.  
• Parmar's of Malwa ruled between 7<sup>th</sup> and 12<sup>th</sup> century.  
• Thus question can be solved through elimination.
15. Nuniz information on Vijaynagar.  
Ans. (d) • Nuniz, a Portuguese traveller came to Vijaynagar Empire in 1535 and spent three years in Vijaynagar.  
• He says in his description that women of Vijaynagar did many activities, thus implying all given activities.
16. Madanapalle in A.P.  
Ans. (c) • Madanapalle is city in Andhra Pradesh in Chittoor district.  
• Tagore translated Jana Gana Mana from Bengali to English in Madanapalle.
17. Important sites famous for–  
Ans. (d) 1. Burzahom located in Kashmir is a Neolithic site.  
2. Chadraketugarh is famous for terracotta art of various periods.  
Can be done by elimination.
18. Statements on Delhi Sultanat.  
Ans. (a) 1. Iltutmish did not help Khwarezm prince, because he was afraid that Chengiz would attack Delhi.  
2. Taimur occupied Multan and attacked Delhi during the reign of Nasiruddin Mahmud.  
3. When Vasco Da Gama landed in Calicut in 1498, Vijaynagar was ruled by Narasimha Raja of Saluva Dynasty.
19. St. Francis Xavier  
Ans. (c) 1. The feast of St. Francis is held in Goa on 3<sup>rd</sup> Dec. each year.  
2. St. Francis Xavier died in China, not in Goa although a church is dedicated to him in Goa.  
3. He was one of the founding members of Jesuit order in India.
20. Mitakshara and Dayabhaga  
Ans. (b) • Mitakshara is a legal commentary.  
• Written by Vijnanesvara.  
• Dayabhaga is Hindu Law written by Jimutavahana.  
• Statement 2 is correct, this is the main difference between the two texts.  
• Rest all statements are wrong.
21. Money Multiplier

Ans: (c) An increase in the banking habit of the population will increase the lending, thereby will lead to more deposits in the banking system, hence increasing the money multiplier.

22. Demand Pull Inflation :  
Ans : (a) Rise in Interest rates will reduce demand pull inflation and hence you could have eliminated b, c and d option

23. Demat and T Bills :  
Ans : (b) CDSL is held by BSE and other banks not RBI.

24. Water Credit :  
Ans : (c) It is not funded by WHO. This eliminates 2 and hence correct answer is c. (Option elimination could have been done)

25. Lender of Last resort :  
Ans : (b) As a last resort, government can itself order printing, it need not borrow from RBI. Hence Answer is B

26. R2 Code of Practices  
Ans : (a) R2 COP was released on July 22, 2021 to clarify areas of COP. It is standard applicable to all organisations within recycling chain for electronics.

27. Concern about copper smelting plants....  
Ans: (b) 2 and 3 only  
The flotation concentrates are then dewatered by clarification and filtration, resulting in 10 to 15 percent water, 25 percent sulfur, 25 percent iron, and varying quantities of arsenic, antimony, bismuth, cadmium, lead, selenium, magnesium, aluminum, cobalt, tin, nickel, tellurium, silver, gold, and palladium.

In roasting, charge material of copper concentrate mixed with a siliceous flux (often a low-grade copper ore) is heated in air to about 650°C (1200°F), eliminating 20 to 50 percent of the sulfur as sulfur dioxide (SO<sub>2</sub>).

28. With reference to furnace oil ...  
Ans: (d)

29. Blue carbon  
Ans : (a) Blue carbon is simply the term for carbon captured by the world's ocean and coastal ecosystems. Coastal ecosystems such as mangroves, tidal marshes and seagrass meadows store more carbon per unit area than terrestrial forests and are important in mitigating climate change.

30. Lichens & Moss....  
Ans : (c) Lichens & Moss Can grow on surfaces like rocks & tree branches. They strictly do not require soil to grow.

31. RBI Governor :  
Ans : (c) RBI is a statutory body, not a constitutional body. This eliminates statement 2 and hence correct is C

32 : Casual Worker :  
Ans : (b) For casual workers we have provision of PPF, not EPF. Hence answer is B. (Option Elimination)

33. Economic Recession :  
Ans : (b) This would boost demand and help fight recession.

34. Market Demand for Goods :  
Ans : (a) Self Explanatory

35. Urban Cooperative Banks :  
Ans : (b) Recently RBI took over the direct regulation under Banking Regulation Act 1949

36. Bond Yields :  
Ans : (d) All three options affect money supply in Indian Economy and hence the yield

37. FDI :  
Ans : (c) FII with more than 10% equity investments are considered FDI. GDR is defiantly not FDI, Hence answer is C

38. Currency Devaluation:  
Ans : (a) Devaluation will lead to reduced prices of exports in foreign market and hence increase competitiveness

39. Black Money :  
Ans : (d) Black money is unaccounted money and hence tax is evaded

40. Inflationary Effect  
Ans : (d) Newly minted money is most inflationary.

41. Lemongrass ...  
Ans : (c) Lemongrass also known citronella grass as used for the production of citronella oil which as an insect repellent (especially mosquitoes and houseflies) in insect sprays and candles, and in aromatherapy.

42. Cyanobacteria and Diatoms  
Ans : (c) Cyanobacteria and Diatoms are photosynthetic aquatic organisms that acts as producers in aquatic food chain.

43. Hedgehog (spiky body) & Pangolin  
Ans : (d) Hedgehog (spiky body) & Pangolin (scaly body) roll up to protect their internal vulnerable parts and to avoid attack by predators.

44. New York Declaration  
Ans (a) New York Declaration on Forests is a voluntary and non-legally binding political declaration by the United Nations Secretary-General's Climate Summit held in New York in 2014. The Declaration pledges to halve the rate of deforestation by 2020, to end it by 2030. It has been signed by 37 governments, 53 multi-national companies, 16 groups representing indigenous communities and 63 non-government organizations.

45. Magnetite.  
Ans : (b)

46. Which one of the following is a filter?  
Ans : (b) Filter feeding is a method of aquatic feeding in which the animal takes in many small pieces of prey at one time.

Oysters are natural filter feeders. This means they feed by pumping water through their gills, trapping particles of food as well as nutrients, suspended sediments and chemical contaminants.

47. In case of which one of the following biogeochemical cycles the weathering of rocks is the main source of release of nutrient to enter the cycle?  
Ans : (c) Phosphorus occurs in nature as the phosphate ion (PO<sub>4</sub><sup>3-</sup>). In addition to phosphate runoff as a result of human activity, natural surface runoff occurs when it is leached from phosphate-containing rock by weathering, thus sending phosphates into rivers, lakes, and the ocean. This rock has its origins in the ocean.

48. What of the following are detritivores?  
Ans : (c) An animal that feeds on detritus. Detritivores play an important role in the breakdown of organic matter from decomposing animals and plants. Examples of detritivores are earthworms, blowflies, millipedes, maggots, and woodlice.

49. Common Carbon Metric  
Ans : (a) It has long been recognised that the operational part of the building sector is one of the major sources of CO<sub>2</sub> emissions and is even one of the leading elements in the UNEP Sustainable Buildings and Climate Initiative (SBCCI) in which RPS has been active from its start in 2006.

50. Which of the following have species that can establish symbiotic relationship with other organisms?  
Ans : (d) Symbiosis is a close ecological relationship between the individuals of two (or more) different species. Sometimes a symbiotic relationship benefits both species, sometimes one species benefits at the other's expense, and in other cases neither species benefits.

51. Concentration of wealth violates....  
Ans : (b) as per article 39(c) of part IV i.e. DPSP

52. Right to property ...  
Ans : (b) as per article 300A no person shall be deprived of his property save by authority of law.

53. Constitutional status of India of India on 26<sup>th</sup> Jan. 1950  
Ans : (b) because word socialist & secular were added by 42<sup>nd</sup> CAA.

54. Constitutional govt. means....  
Ans : (d) Constitution seeks to limit and regulate the exercise of political power....

55. Halbi, Ho, Kui  
Ans. (d) • All three are tribal languages.  
• Halbi is spoken in Central India, also known as Bastari.  
• Ho is spoken by Munda's  
• Kui is spoken Kandha tribe in Odisha.

56. Bharat Ratna and padma Awards...  
Ans : (c) They are awards not titles, instituted in 1954 and suspended by Janta govt. Recommendations are made by Prime Minister to President with maximum of 3 nominees awarded/year.

57. Hyderabad.  
Ans. (d)

58. Consider the following statements  
In respect of the Laureus World Sports Award which was instituted in the year 2000:  
Ans : (c)

59. 32<sup>nd</sup> Summer Olympics...  
Ans : (b) Official motto: United by Emotions

60. ICC world Test championship  
Ans : (b) Finalists for the World Test Championship (WTC) will be decided by the percentage of points they have earned from those they have actually contested for.

New Zealand ranked ahead than England

61. Right to the City  
Ans : (d) This definition of Human Rights Cities speaks directly to four of the eight Right to the City components, namely a city/human settlement free of discrimination, of gender equality, of inclusive citizenship and with enhanced political participation.

62. Judicial Custody means.  
Ans : (b) During judicial custody accused is sent to jail and can be interrogated only with approval of Court.

63. With reference to India :.....  
Ans : (b) parole is not a right, it is discretionary and states have their own rules in this regard.

64. Nodal agency of ST & other traditional forest Dwellers (Recog. Of forest Rights) Act 2006  
Ans : (d) As Sec. -11 of Act Ministry of Tribal affairs will be Nodal agency.

65. Unguided and uncontrolled discretionary power...  
Ans : Article 14's violation : prima facie seems no connection with article 28, 32 & 44.

66. Essential feature for federal character :  
Ans : (a) Independence of Judiciary
67. Best defines state ....  
Ans : (a) Four necessary elements of State  
i) Sovereignty  
ii) Definite territory  
(iii) Population  
(iv) Govt. are visible  
Only in 1<sup>st</sup> Statement
68. Indian Judiciary .....  
Ans : (c) 1<sup>st</sup> Statement is correct as per the provision of retired Judges (Article 128) II<sup>nd</sup> statement is also correct as per the judgment given by Kerala High Court on July 1, 2021 in P. Ramkrishnan Vs. Tahsildar, Tirur case.
69. Citizenship .....  
Ans : (a) any citizen can become head of the state & foreigners can be deprived of Indian citizenship under certain circumstances.
70. Best safeguard of liberty .....  
Ans : (d) Separation of Power creates a system of checks and balances which ultimately safeguards the liberty.
71. Vegetation of Savannah .....  
Ans : (b) Savannah region is marked by scattered small trees with extensive grassland. The only source of soil fertility is humus which comes from previous season vegetation, so the soil lacks nutrients, along with this, the rainfall in this region is season and much less than tropical which further stops forest development.
72. Water on planet earth .....  
Ans : (b) A/c to data from NCERT and ministry of Jal Shakti Department of water resources, river development and Ganga rejuvenation, about 2.7 percent of the total water available on earth is fresh water. Out of all fresh water, 75.2 percent lies frozen in polar ice caps; another 22.6 percent is present as ground water. The rest is available in lakes, rivers, atmosphere, moisture, soil and vegetation.
73. Consider the following statements –  
Ans : (b)  
(a) Moringa is not a leguminous plant  
(b) Tamarind is endemic to Africa  
(c) Rest all option is true.
74. Black cotton soil of India  
Ans : (b) Black soil is mainly formed by weathering of igneous rocks.
75. Recombinant Vector vaccines  
Ans : (c) Recombinant Vector vaccines are made of a live attenuated viral or bacterial strain used as a vector to carry the gene or genes encoding the desired vaccine antigens. Live recombinant vaccines have a number of attractive features, including the ability to stimulate immunity.
76. Mitochondrial replacement therapy...  
Ans : (c) Mitochondrial replacement therapy (MRT), sometimes called mitochondrial donation, is the replacement of mitochondria in one or more cells to prevent hereditary disease. This technique is used in cases when mothers carry genes for mitochondrial diseases.
77. Bollgard...  
Ans : (b) Bollgard® Bt cotton (single-gene technology) is India's first biotech crop technology approved for commercialization in India in 2002, followed by Bollgard® II – double-gene technology in mid-2006, by the Genetic Engineering Approval Committee (GEAC), the Indian regulatory body for Genetically Modified crops.
78. Pressure Cooker ...  
Ans : (a)
79. Artificial/Synthetic Medium...  
Ans : (a) The nutrient preparation on or in which a culture (microorganism) is grown in the laboratory is known as culture medium or culture media or Artificial/Synthetic Medium. Viruses cannot be cultured in the artificial medium because these are parasites and require living cells for the growth.
80. Virus  
Ans : (b) Adenoviruses contain a double stranded DNA genome, while Retrovirus have RNA as Genome. Adenovirus infection range from the common cold syndrome to pneumonia. HIV is responsible for AIDS which is a retrovirus.
81. Permaculture agriculture  
Ans : (b) Permaculture agriculture is simply a process of farming that works in tandem with natural forces like wind, sun, and water that provide food, shelter, and water.
82. Palm oil ....  
Ans : (d)
83. Indus River system.....  
Ans : (d) Every other river other than Satlej joins Satlej first then the combined stream of Satlej joins Indus near Mithankot.
84. With reference to India .....  
Ans : (d) Didwana, Kuchaman, Sargol, Khatu, Degana and Sambhar are saline lakes of Rajasthan.
85. Consider the following rivers -  
Ans : (b) Brahmani River is formed due to confluence of Sankh and south Koel River and both of them originate from Chhota Nagpur plateau.
- (a) Nagavali has its source in eastern Ghats, Kalahandi
- (b) Subornrekha River has its source in Chhota Nagpur plateau.
- (c) Vamsadhara originates from Eastern Ghats, Kalahandi.
86. Consider the following statements -  
Ans : (b) International sea bed authority grants licence for sea bed exploration and mining in international waters. India has received license for Indian ocean. Poly metallic nodules of rare earth metals are present in sea floor.
87. Least water efficient crop.....  
Ans : (a) Sugarcane needs more water out of all and its efficiency is very low in utilization.
88. Consider the following statements -  
Ans : (d) The temperature of ocean depends on ocean currents and insolation, not on the winds.
89. Climate smart agriculture..  
Ans : (d) The CGIAR research program on climate change agriculture and food security (CCAFS) envisions the climate smart project. The head quarter of CGIAR is in Mont Pellier, France. The ICRISAT of India, head quartered in Patancheru, Hyderabad has its parent organization as CGIAR.
90. Leaf Litter decomposes.....  
Ans : (d) These features like leaf litter, Climbing trees are only found in tropical rainforest.
91. Water  
Ans : (a) Water dissolves many substances because it contains extremely polar hydrogen bonds i.e Dipolar in nature.
92. With reference to street-lightening...  
Ans : (c)
93. ACE2  
Ans : (d) ACE2 plays a critical role in SARS-CoV-2 infection to cause COVID-19 and SARS-CoV-2 spike protein binds to ACE2 and probably functionally inhibits ACE2 to aggravate the underlying diseases of COVID-19.
94. Bisphenol A  
Ans : (b) BPA is an industrial chemical used to make polycarbonate, a hard, clear plastic, which is used in many consumer products. BPA is also found in epoxy resins, which act as a protective lining on the inside of some metal-based food and beverage cans.
95. Triclosan  
Ans : (d) Triclosan is an ingredient added to many consumer products intended to reduce or prevent bacterial contamination. It is added to some antibacterial soaps and body washes, toothpastes, and some cosmetics—products regulated by the U.S. Food and Drug Administration (FDA).
96. Light years.....  
Ans : (d) Speed of light is always same. Light travels at a speed of  $3 \times 10^8$  m/s and it always remains constant.
97. Parliamentary democracy .....  
Ans : \* either (a) or (d) 2<sup>nd</sup> statement is wrong. 1<sup>st</sup> statement is bit based on interpretation.
98.  
Ans : \* (d) Neither 1 nor 2  
N. Gopala Swamy Iyenger Committee's recommendation.  
DoP, Created in 1970 on recommendation of ARC kept under cabinet secretariat.
99. Right to privacy ....  
Ans : (c) As stated by SC in Puttaswamy case
- 100 \* (b)





# कौटिल्य एकेडमी

सफलता का प्रवेश द्वार —

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[kautilyaacademyind@gmail.com](mailto:kautilyaacademyind@gmail.com)

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+91-9425068121, +91-9111321212