

- He does not hold his office till the pleasure of the President, though he is appointed by him.
- He is not eligible for further office, either under the Government of India or any state, after he ceases to hold his office.
- The administrative expenses of the office including all salaries, allowances and pensions of persons serving, are charged upon the Consolidated Fund of India.
- His salary and other service conditions are determined by the President independent of the Council of Ministers.

**Q15.** Which of the following are potential application areas for "Gold Nano Particles"?

- Electronics
- Photodynamic Therapy
- Therapeutic Agent Delivery
- Sensors
- Diagnostics

Select the correct answer using the code given below:

- 1, 3 and 4 only
- 2, 3 and 5 only
- 1 and 4 only
- 1, 2, 3, 4 and 5

**Q16.** Which of the following statements is/are correct with reference to MXene?

- They belong to the class of three-dimensional inorganic compounds.
- They are heat resistant which makes them an excellent solid lubricant.

Select the correct answer using the code given below:

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

**Q17.** In the context of ANANYA, consider the following statements:

- Defense Institute of Advanced Technology, Pune has developed it to combat COVID-19 by disinfecting all types of surfaces.
- It is an alcohol-based spray and is effective for more than 24 hours.
- It can be used on masks, PPEs and hospital linens only.

Which of the statements given above is/are correct?

- 2 only
- 1 and 3 only
- 1 only
- 1, 2 and 3

**Q18.** Consider the following statements regarding mRNA vaccines:

- They trick the body into producing some of the viral proteins themselves.
- They are highly efficacious and are fully synthetic.
- They use the live virus that causes COVID-19.

Which of the statements given above are correct?

- 1, 2 and 3
- 1 and 2 only
- 2 and 3 only
- 1 and 3 only

**Q19.** Which of the following is/are the byproducts of photosynthesis?

- Oxygen
- Carbon dioxide
- Water