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**G. K.**

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- Q.1) In the Union Budgets of India, which one of the following is the largest in amount?  
(A) Plan Expenditure (B) Non-Plan Expenditure  
(C) Revenue Expenditure (D) Capital Expenditure
- Q.2) The important metal used with iron to produce stainless steel is :  
(A) Carbon (B) Tin  
(C) Chromium (D) Aluminium
- Q.3) What is the source of electrical energy in an artificial satellite?  
(A) Solar cells (B) Mini nuclear reactor  
(C) Dynamo (D) Thermopile
- Q.4) The age of the tree can be determined from the :  
(A) Counting of leaves on the tree  
(B) Counting the number of rings on its stem  
(C) Counting the branches on the tree  
(D) Measurement of its height
- Q.5) The fuel tanks of the spacecraft 'Discovery' that was launched into space on July 4, 2006 was filled with :  
(A) Liquid hydrogen only  
(B) Liquid oxygen only  
(C) Mixture of liquid hydrogen and liquid oxygen  
(D) Mixture of liquid hydrogen, liquid oxygen and liquid helium
- Q.6) Consider the following statements and give the answer with the help of codes given below :  
**Assertion (A) :** Only one side of the moon's surface is visible from the earth.  
**Reason (R) :** The period of rotation of the moon on its axis is equal to the period of its revolution round the earth.
- Code:  
(A) Both A and R are correct and R is the correct explanation of A.  
(B) Both A and R are correct but R is not the correct explanation of A.  
(C) A is correct but R is wrong.  
(D) A is wrong but R is correct.
- Q.7) The weight of any body is :  
(A) Same at every place on earth's surface  
(B) Maximum at poles  
(C) More on equator  
(D) More on mountains than in plains
- Q.8) On July 3, 2006, the first train was out from Lhasa Railway station. When it passed through its highest point over the Tibetan grassland, many passengers reached out for which of the following to ward off altitude sickness?  
(A) Mineral water bottle (B) Pollution filter mask  
(C) Oxygen mask (D) Cold drink bottle
- Q.9) The most toxic metal pollutant of automobile exhaust is :  
(A) Copper (B) Lead  
(C) Cadmium (D) Mercury
- Q.10) Who is known as "Father of White Revolution" in India?

- (A) M.S.Swaminathan      (B) V.Kurien  
(C) K.N.Bahl                (D) B.P.Pal
- Q.11) Blue green algae are chiefly used as biofertiliser in the crop of :  
(A) Wheat                      (B) Gram  
(C) Paddy                      (D) Mustard
- Q.12) The device used for converting alternating current to direct current is called :  
(A) Inverter                    (B) Rectifier  
(C) Transformer                (D) Transmeter
- Q.13) An earth satellite is kept moving in its orbit. It is due to the phenomenon of centripetal force provided by :  
(A) The rocket engine propelling the satellite  
(B) The gravitational attraction of the Earth on the satellite  
(C) The gravitational attraction of the Sun on the satellite  
(D) The gravitational attraction of satellite on Earth
- Q.14) A person meets with an accident and needs blood-transfusion but there is no time to check his bloodgroup. Which of the following blood groups could be given to him?  
(A) O +                          (B) O –  
(C) AB +                        (D) AB –
- Q.15) Shahtoosh shawl is made from the hair of :  
(A) Hangul                      (B) Chinkara  
(C) Chiru                        (D) Merino
- Q.16) Which one of the following pairs is **not** correctly matched?  
(A) Dry ice : solid carbon dioxide  
(B) Mustard gas : poisonous liquid used in chemical warfare  
(C) Teflon : polymer containing fluorine  
(D) Fullerenes : organic compounds containing fluorine
- Q.17) The energy of the sun is produced by :  
(A) Nuclear fission            (B) Ionisation  
(C) Nuclear fusion              (D) Oxidation
- Q.18) The tax on import and export is known as :  
(A) Income Tax                (B) Trade Tax  
(C) Custom Duty                (D) None of the above
- Q.19) On which of the following dates is your shadow at noon the smallest?  
(A) December 25                (B) March 21  
(C) June 22                        (D) February 14
- Q.20) Centre for DNA fingerprinting is located at :  
(A) New Delhi                    (B) Bangalore  
(C) Pune                          (D) Hyderabad
- Q.21) Ozone layer in atmosphere :  
(A) Produces rain  
(B) Produces pollution  
(C) Provides safety to life on earth from ultraviolet radiation  
(D) Produces oxygen in the atmosphere
- Q.22) Cryogenic engines are used in :

- (A) Rockets (B) Atomic reactors  
 (C) Defrost refrigerators (D) Doing research connected with superconductivity

- Q.23) Transformer is used for :  
 (A) Converting AC into DC  
 (B) Converting DC into AC  
 (C) To step up DC voltages  
 (D) To step up or step down AC voltages

- Q.24) Match the columns with Lists-I and II and select the correct answer with the help of code given below :

- |     | List-I        | List-II     |
|-----|---------------|-------------|
| (a) | High Velocity | 1. Mach     |
| (b) | Wavelength    | 2. Angstrom |
| (c) | Pressure      | 3. Pascal   |
| (d) | Energy        | 4. Jule     |

Codes :

- |     | (a) | (b) | (c) | (d) |
|-----|-----|-----|-----|-----|
| (A) | 2   | 1   | 3   | 4   |
| (B) | 1   | 2   | 4   | 3   |
| (C) | 1   | 2   | 3   | 4   |
| (D) | 2   | 1   | 4   | 3   |

- Q.25) The most commonly used substance in fluorescent tubes are:  
 (A) Sodium oxide and argon  
 (B) Sodium vapour and neon  
 (C) Mercury vapour and argon  
 (D) Mercuric oxide and neon

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### ANSWERS

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|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1. | (C) | 6.  | (A) | 11. | (C) | 16. | (D) | 21. | (C) |
| 2. | (C) | 7.  | (C) | 12. | (C) | 17. | (C) | 22. | (A) |
| 3. | (A) | 8.  | (C) | 13. | (B) | 18. | (C) | 23. | (D) |
| 4. | (B) | 9.  | (B) | 14. | (B) | 19. | (C) | 24. | (C) |
| 5. | (C) | 10. | (B) | 15. | (C) | 20. | (D) | 25. | (C) |