



FEDERAL PUBLIC SERVICE COMMISSION
SPECIAL COMPETITIVE EXAMINATION
FOR APPOINTMENT TO POSTS IN BS-17
UNDER THE FEDERAL GOVERNMENT

GENERAL KNOWLEDGE-I (GENERAL SCIENCE & ABILITY)

TIME ALLOWED: THREE HOURS	(PART-I MCQs) MAXIMUM MARKS: 20
PART-I (MCQs) : MAXIMUM 30 MINUTES	(PART-II) MAXIMUM MARKS: 80

NOTE: (i) First attempt PART-I (MCQs) on separate OMR Answer Sheet which shall be taken back after 30 minutes along with the Question Paper.
(ii) Overwriting/cutting of the options/answers will not be given credit.
(iii) There is no negative marking. All MCQs must be attempted.

PART-I (MCQs)(COMPULSORY)

Q.1. (i) Select the best option/answer and fill in the appropriate Box on the OMR Answer Sheet. (20x1=20)
(ii) Answers given anywhere else, other than OMR Answer Sheet, will not be considered.

- Apparently, the Solar System is moving around the galaxy with a speed of:
(A) 50 km/s (B) 200 km/s (C) 500 km/s (D) Not moving at all
- The image formation in the James Webb Space Telescope is due to:
(A) Gamma-Rays (B) X-Rays (C) Visible light (D) Infra-Red Rays
- In general, the Cancer in a human body is caused by changes to:
(A) Virus (B) RNA (C) DNA (D) All of these
- In a year, light travels a distance of:
(A) 9.4×10^9 km (B) 9.4×10^{12} km (C) 9.4×10^{15} km (D) None of these
- The location below the Earth's surface where the Earthquake starts is called:
(A) Epicenter (B) Hypocenter (C) Tectonic center (D) All of these
- During the combustion of gasoline in a vehicle engine, the energy used is:
(A) Chemical (B) Mechanical (C) Electrical (D) All of these
- A Bar is System International unit to measure:
(A) Temperature (B) Energy (C) Pressure (D) Force
- One may define Renewable Energy as:
(A) Energy derived from non-traditional sources
(B) Energy derived from sources that do not use up natural resources or harm the environment
(C) Energy fueled into ways that do not use up natural resources or harm the environment
(D) All of these
- The sky looks blue due to:
(A) The scattering of sunlight by the Atmosphere, (B) The presence of water vapors in the air.
(C) Absorption of blue light by the atmosphere (D) Presence of CO₂ in the atmosphere.
- Soil pollution is caused by:
(A) Aerosol (B) Ozone (C) Acid rain (D) All of these
- The correct full form of "AI" is:
(A) Artificially Intelligent (B) Artificial Intelligence
(C) Artificially Intelligence (D) Advanced Intelligence
- A 'Cyclone' is generated due to:
(A) High Temperature (B) High Humidity (C) Low Pressure (D) All of these
- The Radioactive isotopes are formed by neutrons bombardment on the Nucleus, these incident neutrons must have _____ to penetrate in the nucleus.
(A) Very high velocity (B) Very low velocity (C) Intermediate velocity (D) All of these
- An 'Enzyme' is a chemical substance that is found in living creatures; It is a:
(A) Protein (B) Bacteria (C) Virus (D) All of these
- An Antibiotic is a drug used to treat infections caused by;
(A) Protein (B) Bacteria (C) Virus (D) All of these
- In the covalent bonding, electron of two atoms;
(A) \searrow share with each other (B) Transfer from one atom to another
(C) Attract the ions and delocalized electrons (D) None of these
- The day and night are formed due to 'Earth' rotation on its own axis from:
(A) North to South (B) South to North (C) East to West (D) West to East
- The chemical formula for Methane gas is:
(A) CH₈ (B) CH₆ (C) CH₄ (D) CH₂
- The Artificial Intelligence term was invented by:
(A) Geoffrey Hinton (B) Albert Einstein (C) Alan M. Turing (D) John McCarthy
- Disease-causing microorganisms are referred to as:
(A) Pathogens (B) Coliform bacteria (C) Viruses (D) All of these