

OBJECTIVE TYPE QUESTIONS**Chapter # 6
GRAVITATION**

1. The force of attraction acts along the.
 - (a) axis of rotation.
 - (b) Line joining the interacting bodies.
 - (c) Line perpendicular to the interacting
 - (d) None of these
2. The range through which the gravitation force acts is:
 - (a) Limited to 1×10^{-10} m
 - (b) Limited to 1×10^{-2} m
 - (c) Extremely long
 - (d) About 1×10^6 m
3. According to the law of universal Gravitation.
 - (a) Every body in the universes attracts every body.
 - (b) The force of attraction is directly proportional to the product of their masses
 - (c) The force of attraction is inversely proportional to the square of their distance.
 - (d) All of the above
4. Force of gravitational attraction of earth on other bodies is given by:
 - (a) $F = G \frac{M_E m}{R_E^2}$
 - (b) $F = G \frac{M_1 m}{G}$
 - (c) $F = R_1^2 \frac{M_1 m}{G}$
 - (d) $F = R_1^2 \frac{M_1 m}{m}$
5. The force of attraction or repulsion between two bodies is:
 - (a) Inversely proportional to the distance
 - (b) Directly proportional to the distance
 - (c) Inversely proportional to the square of the distance
 - (d) None of the above
7. The acceleration due to gravity on moon is $1/6^{\text{th}}$ of that on earth, what will be the mass of the body on moon, if its mass on earth is m:
 - (a) $m/6$
 - (b) $6m$
 - (c) m
 - (d) $m/3$
8. The value of 'g' at the centre of earth is:
 - (a) Maximum
 - (b) Minimum
 - (c) Zero
 - (d) None of them
9. The value of g at a certain height above the earth is;
 - (a) Nearly the same as on the surface of earth
 - (b) Nearly the same as on the center of earth
 - (c) Estimated to decrease with altitude
 - (d) Estimated to depend on the variation of the earth radius
10. The value of 'g' is maximum at:
 - (a) Centre of the earth.
 - (b) Poles of the earth
 - (c) Equator of the earth.
 - (d) Surface of the earth
11. If the mass of the earth becomes four times large, the value of g will
 - (a) remain unchanged
 - (b) Becomes four times larger
 - (c) Be double
 - (d) sixteen times larger
12. The value of 'g' is maximum:
 - (a) At the surface of earth
 - (b) An infinite distance from the earth
 - (c) At the centre of earth
 - (d) Below the surface of earth
13. When a lift is moving upward with a uniform velocity, the apparent weight of a body inside the lift will be.
 - (a) Equal to its actual weight
 - (b) Less than the actual weight
 - (c) More than the actual weight
 - (d) Zero
14. The source of electric energy in an artificial satellite is:
 - (a) A mini nuclear reactor
 - (b) A dynamo
 - (c) A thermo pile
 - (d) Solar cells
15. Artificial gravity can be created in the space craft by:
 - (a) Revolving it around the earth
 - (b) Spinning it around its own axis
 - (c) Increasing its velocity
 - (d) decreasing its velocity'

Chapter # 6

1	2	3	4	5	6	7	8	9	10
b	c	d	b	c	d	c	C	c	b
11	12	13	14	15					
b	a	a	d	b					