

GRAVITATION

MULTIPLE CHOICE QUESTIONS

1.	predicted about artificial satellit	tes about 300 years ago.
	(a) Galileo	(b) Newton
	(c) Einstein	(d) Faraday
2.	Unit of gravitational field strength is:	Contract of the Contract of th
	(a) N	(b) N kg ⁻¹
	(c) J	(d) N m
3.	Distance of moon from Earth is?	(GRW 2013, 2014)
	(a) 38, 000 km	(b) 3, 80, 000 km
	(c) 3, 000, 000 km	(d) 30, 000 km
4.	Speed of GPS satellite is:	
25/8	(a) 7.9 kms ⁻¹	(b) 3.87 kms ⁻¹
	(c) 5.6 kms ⁻¹	(d) 5.0 kms ⁻¹
5.	If the distance between two masses is hal	
	(a) One fourth	(b) Four times
	(c) Doubled	(d) Half
6.	In System International, the value of G i	
8.5	(a) $6.4 \times 10^6 \text{ Nm}^2 \text{kg}^{-2}$	(b) $6.4 \times 10^{-11} \text{ Nm}^2 \text{kg}^{-2}$
	(a) 6.4 x 10 ⁶ Nm ² kg ⁻² (c) 6.67 x 10 ¹¹ Nm ² kg ⁻²	(b) 6.4 x 10 ⁻¹¹ Nm ² kg ⁻² (d) 6.67 x 10 ⁻¹¹ Nm ² kg ⁻²
7.	Radius of earth is:	
	(a) $6.4 \times 10^6 \text{ km}$	(b) $6.4 \times 10^6 \text{ m}$
	(c) $6 \times 10^6 \text{ m}$	(d) $6 \times 10^6 \text{ km}$
8.	The SI unit of gravitational force is:	
	(a) Nm ² kg ⁻²	(b) Newton
	(c) ms ⁻²	(d) both "a" and "b"
9.	What will be the value of G if mass of th	PARTIES AND
	(a) No change	(b) Four times
	(c) One fourth	(d) Doubled
10.	The mass of Earth is approximately:	
#T407430	(a) $6.9 \times 10^{24} \text{ kg}$	(b) 6.0 x 10 ⁻²⁴ kg
	(c) $6.0 \times 10^{24} \text{ kg}$	(d) $5500 \times 10^{24} \text{ kg}$
11.	As we go up the value of G becomes:	(-)
- 8	(a) Unchanged	(b) Increases
	(c) Decreases	(d) Doubled
12.		ne center of circle is known as force:
vi (1990-1994)	(a) Frictional	(b) Coulomb
	(c) Centripetal	(d) Gravitational
13.	•	radius of earth above the surface of the eart

(LHR 2013)

What is the value of gh?

	(a) 4g	(b) 2g
	(c) g/2	(d) g/4
14.	What is not true about g?	
	(a) g is different at different places	(b) g is greater at poles
	(c) g is less at poles	(d) g decrease as go higher
15.	If the weight of an object on the surface of	of earth is W. Its weight on the surface of moon
	will be:	
	(a) 6W	(b) W/6
	(c) W/4	(d) W/8
16.	On mountains our weight will be	as compared to weight on the surface of
	earth.	•
	(a) Equal	(b) Greater
	(c) Less	(d) None of above
17.		distance between their centers is 1m then the
	gravitational force will be equal to:	
	(a) G	(b) g
	(c) V	(d) None of above
18.	137767	in a circular orbit. If the radius of the orbit is
10.	increased from R to 2R. What will be its	The purple of the property of
	_	
	(a) $\sqrt{2}$ V	(b) v2
	(c) v/2	(d) $\frac{v}{\sqrt{2}}$
		$\sqrt{2}$
19.	An artificial satellite keeps on revolvir	ng around the earth in different orbits with
	uniform speed due to the?	
	(a) Gravitational force	(b) Frictional force
	(c) Coulmb force	(d) Electromagnetic force
20.	Relative velocity of Geostationary satellit	e with respect to earth is:
-	(a) 7.9 kms ⁻¹	(b) 11.2 kms ⁻¹
	(c) 9.8 ms ⁻¹	(d) Zero
21.	If a rocket is fired vertically with a speed	of, it will start revolving around the
	earth:	(GRW 2013, LHR 2015)
	(a) 8 ms ⁻¹	(b) 8 kms ⁻¹
	(c) 9.8 ms ⁻¹	(d) 11.2 kms ⁻¹
22.	Height of the Geostationary satellite above	ve the surface of earth is:
	(a) 1000 km	(b) 3600 km
	(c) 36000 km	(d) 42300 km
23.	Gravitational force on the surface of eart	
	(a) G	(b) g
	(c) W	(d) All of above
24.	Weight of the body of mass 10 kg on the	
 .(1533)	(a) 160 N	(b) 16N
	(c) 1.62 N	(d) None of above
	(0) 1.02 11	(a) Fronte of above

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ANSWER KEY

Q.	Ans	Q.	Ans	Q.	Ans
1	b	11	a	21	b
2	b	12	c	22	d
3	b	13	d	23	c
4	b	14	c	24	b

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5	b	15	b
6	d	16	С
7	b	17	a
8	b	18	a
9	a	19	a
10	c	20	d

FOR MORE

ESSAYS, NUMERICAL PROBLEMS, MCQs, SHORT Q, LONG Q, PAST PAPERS, ASSESSMENT SCHEMES

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