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Question (1): SI unit of gravitation	nal constant is		
	1. N m^2kg^2		
	2. N $m^2 kg^{-2}$		
	3. N m ² s ⁻²		
	4. N mkg ⁻²		
Question (2): What is the value of	f gravitational constant	?	Ans: 2
	$1.66734 \times 10^{-11} \text{N m}^2/1$	$x\sigma^2$	
	$2.6.6734 \times 10^{-10} \text{N m}^2/\text{J}$	$x g^2$	
	$3.66734 \times 10^{-11} \text{N m/k}$	σ^2	
	4 6 6734x10 ⁻¹¹ N m ² /l	σ	
Question (3): If the distance betw will be	een two bodies is doub	led, the force of attraction F be	Ans: 1 etween them
	1. 1/4 F		
	2. 2 F		
	3. 1/2 F		
	4. F		
Question (4): The force of gravita	tion between two bodie	es in the universe does not dep	Ans: 1 end on
1	. the distance between	them	
2	. the product of their m	asses	
3	. the sum of their mass	es	
4	. the gravitational cons	tant	
	U		Ans: 3
Question (5): Name the fundament	ntal force which holds t	he planets in their orbits aroun	d the sun.
1. Gra	vitational force of attra	ction	
2. Ele	ctrostatic static force of	fattraction	
3. Nuc	clear force of attraction		
4. Ele	ctro static force of attra	ction	
Question (6): When an object is t	hrown up, the force of	gravity	Ans: 1
1. is opposite	e to the direction of mo	tion	
2. is in the sa	ame direction as the dir	ection of motion	
3. becomes z	zero at the highest point	t	
4. increases	as it rises up		
	-		Ans: 1

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Question (7): What is the final velocity of a body moving against gravity when it attains the maximum height?

GRAVITATION

1. Zero 2. $\frac{u^2}{2q}$ 3. $\frac{h}{t}$ 4. 2gh Ans: 1 Question (8): A stone is dropped from a cliff. Its speed after it has fallen 100 m is 1.9.8 m/s 2.44.2 m/s 3. 19.6 m/s 4.98 m/s Ans: 2 Question (9): A ball is thrown up and attains a maximum height of 100 m. Its initial speed was 1.9.8 m/s 2.44.2 m/s 3. 19.6 m/s 4. ⁹⁸ m/s Ans: 2 Question (10): A stone dropped from the roof of a building takes 4 seconds to reach the ground. What is the height of the building? 1.19.6 m 2.39.2 m 3.156.8 m 4.78.4 m Ans: 4 Question (11): The acceleration due to gravity is zero at _____. 1. the equator 2. poles 3. sea level 4. the centre of the earth Ans: 4 Question (12): If acceleration due to gravity on earth is 10 m/s^2 then, the acceleration due to gravity on moon is _____. 1. 1.66 m/s^2 2. 16.6 m/s² 3. 10 m/s^2

4. 0.166 m/s^2

Ans: 1

Question (13): The second equation of motion for a freely falling body starting from rest is _____ Website: <u>www.scientiatutorials.in</u> **T** +91 9864920707 E-mail: <u>scientiatutorials@gmail.com</u>

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GRAVITATION 1. h = ut + $\frac{1}{2}$ gt² 2. h = ut - $\frac{1}{2}$ gt² 3. h = $\frac{1}{2}$ gt² 4. h = $-\frac{1}{2}$ gt²

Ans: 3

Question (14): The acceleration due to gravity of a body moving against gravity is

1. 9.8 m/s² 2. -9.8 m/s² 3. \pm 9.8 m/s² 4. 9.6 m/s

Ans: 2

Ans: 1

Ans: 3

Question (15): A feather and a coin released simultaneously from the same height do not reach the ground at the same time because of the _____.
1. resistance of the air

- 2. force of gravity
- 3. force of gravitation
- 4. difference in mass

Question (16): The weight of an object of mass 10 kg on earth is_____. 1. 9.8 N 2. 9.8 kg 3. 98 N 4. 98 kg

Question (17): The weight of an object of mass 15 kg at the centre of the earth is _____.

- 1. 147 N
 2. 147 kg
 3. zero
- 4. 150 N

Ans: 3

Question (18): Mass remains _____ throughout the universe.

- 1. varies
- 2. zero
- 3. constant
- 4. negative

Ans: 3

Question (19): SI unit of weight is _____.

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	GRAVITATION		
	1. newton		
	2. kg		
	3. Wt		
	4. kg.wt		
			Ans: 1
Question (20): 100 kg.wt=	1 000 M		
	1. 980 N		
	2. 9.800 N		
	3. 1000 N		
	4. 0.98 N		A 1
Ouestion (21) : How much would a m	an whose mass is 601	a weigh on the moon?	Ans: 1
Question (21). How much would an	$1 98 \mathrm{N}$	kg weigh on the moon.	
	1. 9.8 N 2. 600 N		
	2. 60 N		
	J. 00 N 4. 08 N		
	4. 70 IN		Ans. A
Question (22): What is the mass of a	n object whose weight	on earth is 196 N?	7 113
	1. 20 kg		
	2. 0.20 kg		
	3. 1960 kg		
	4. 2 kg		
	C		Ans: 1
Question (23): The upward force acti	ng on an object subme	rged in a liquid is	
	1. thrust		
	2. buoyant force		
	3. pressure		
	4. force of friction		
			Ans: 2
Question (24): The normal force per	unit area is called	·	
	1. pressure		
	2. thrust		
	3. balanced force		
	4. pascal		
Ougstion (25) : If the mass of a ball is	5 kg on oarth than wh	nat would be its mass on Jun	Ans: 1
Question (25). If the mass of a ball is	J Kg oli eartii, their wi	iai would be its mass on Jup	
	1. 5 kg		
	2. 5000 kg		
	3. 40000 kg		
	4. 50 kg		
			Ans: 1

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