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Phy101 Grand quiz file

Sr No.	MCQS QUESTION	ANSWER
1	A body will be in translation equilibrium if:	$F = 0$
2	The fundamental dimensions of angular momentum are .	ML ² T ⁻¹
3	Water flows into a house at a velocity of 15 m/s through a pipe that has a radius of 0.40 m. The water then flows through a smaller pipe at a velocity of 45 m/s. what is the radius of the smaller pipes?	0.23 m
4	The ultimate strength of a sample is the stress at which the sample	Breaks
5	A stone is thrown up from the surface of earth, the it reaches a maximum height, kinetic energy is equal to:	Zero
6	If the speed of sound is 340m/s a plane flying at 400m/s creates a conical shock wave with an apex half angle of:	58°
7	The law of inertia was firstly formulated by:	Newton
8	Bodies which falls freely under gravity provides good example of motion under:	Uniform acceleration
9	The value of k in coulomb's law depends upon	Medium between two charges
10	Which of the following statement about floating objects correct?	The buoyant force equals the object's weight.
11	Let F1 be the magnitude of the gravitational force exerted on the sun by Earth and F2 be the magnitude of the force exerted on Earth by the sun. Then:	F1 is equal to F2
12	Sound waves are	Longitudinal
13	The first condition of equilibrium implies that:	$F = 0$
14	One revolution is the same as:	2 π rad
15	Ali wants to lift a mass of 7.5 kg with constant velocity by a rope that passes through a frictionless pulley which is attached to the ceiling of room. Calculate the tension in the rope by neglecting the mass of the rope.	75 N
16	The speed of a sound wave is determined by:	The transmitting medium
17	A force of 100 N acts upon a body for five second. What will be the change in momentum?	500 NS
18	Which pair will always have the same magnitude to the rate of change of position?	Instantaneous speed and instantaneous velocity
19	A municipal water supply is provided by a tall water tower. Water from this flower to a building. How does the water flow out of a faucet on the ground floor of a building compare with the water flow out of an identical faucet on the second	Water flows more rapidly out of the ground-floor faucet.

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	floor of the building?	
20	The dot product of vector A with itself is equal to	A^2
21	An elastic collision is one in which:	Kinetic energy and momentum are both conserved
22	The center of mass of Earth's atmosphere is :	Near the center of Earth
23	For a body to be in equilibrium under the combined action of several forces.	The sum of the torques about any point must equal zero
24	Swimming becomes possible because of:	Third law of motion
25	When a wave travels through a medium	Energy is transferred at a constant speed
26	Young's modulus is a proportionality constant that relates the force per unit area applied perpendicularly at the surface of an object to:	The fractional change in length
27	Coulomb's law is only true for point charges whose sizes are	Very small
28	Which of the following statement is true?	Weight is a force, mass is a measure of inertia
29	Possible unit of angular momentum are:	Kg.m/s^2
30	If the force acting on a body is doubled then the acceleration becomes:	Double
31	Momentum may be expressed in:	N.s
32	A man, with his arms at his sides, is spinning on a light frictionless turntable. When he extends his arms:	His angular momentum remains the same
33	The approximate value of g at an altitude above Earth equal to one Earth diameter is:	1.1m/s^2
34	Young's modulus can be used to calculate the strain for a stress that is:	Well below the yield strength
35	Unit of distance is:	Light year
36	SI unit of time period is_____.	Second
37	The rate of change of momentum of a body is equal to:	Applied force
38	A rocket ship is coasting toward a planet. Its captain wishes to know the value of g at the surface of the planet. This may be inferred by:	Observing the ship's acceleration and correcting for the distance from the center of the planet:
39	A 1-kg block is lifted vertically 1m by a boy. The work done by the boy is about:	10 J
40	As the wavelength of a wave in a uniform medium increases, its frequency will_____.	Decrease
41	Which of the following cases is/are NOT a uniformly accelerated motion? I. A feather falls from a certain height inside a vacuum tube. II. A ball rolls along a frictionless plane at uniform speed. III. A coin falls from a certain height in air but air	(ii) only

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	resistance is negligible.	
42	As per coulomb's law, the force of attraction or repulsion between two point charge directly proportional to the.	Product of the magnitude of charges
43	Which of the following statement about completely submerged objects resting on the ocean bottom is correct?	The apparent weight of the object depends on the object 's density
44	The momentum of an object at a given instant is independent of its:	Acceleration
45	A vector A is added to a vector B. the resultant vector A + B have greatest magnitude when:	When vectors A and B are parallel and in the same direction
46	Two sound waves are traveling through a container of unknown gas. Wave A has a wavelength of 1.2 m. wave B has a wavelength of 3.6M. The velocity of wave B must be _____ the velocity of wave A.	The same as
47	Work has dimensions like:	Torque
48	Which statement is not true for acceleration?	Riding your bike straight down the street at a constant speed
49	Water flows into a house at a velocity of 15 m/s through a pipe that has a radius of 0.40 m. the water then flows through a smaller pipe at a velocity of 45 m/s. what is the radius of the smaller pipe?	0.23 m
50	The unit kg.m ² /s can be used for:	Angular momentum
51	A water tunnel has a circular cross section where the diameter diminishes from 3.6 m to 1.2 m. if the velocity of water flow is 3.0 m/s in the large part of the tunnel, what is the velocity of flow in the smaller part of the tunnel?	27 m/s
52	What is the angle of projection of projectile, for which its maximum height and horizontal range are equal?	76
53	A mosquito's buzz is often rated with a decibel rating of 40 dB. Normal conversation is often rated at 60 dB. How many times more intense is normal conversation compared to a mosquito's buzz?	100
54	People try to keep the..... over their feet, in order to feel stable.	Centre of gravity
55	The goal of all scientific inquiry (or scientific method) is:	Predicting natural events based on known patterns
56	Before the density of an object can be found, what two measurements are required?	Mass and volume
57	A..... vector is obtained by dividing the vector by its magnitude:	unit
59	When two lights are in close proximity to each other, flashing alternately, appear to be one light moving back and forth, it is called:	Phi phenomenon

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60	Which of the following monocular cue refers that higher objects seem to be more distant?	Relative height
61	Which of the following is NOT one of Piaget's stages of development?	Operational
62	50 school going children were given the certain medicine for increasing their energy level. What is the dependent variable in this research?	Amount of medicine
63	The amount of light entering the eye is controlled by which of the followings?	Pupil
64	Which of the following process is suggested by Bandura that help human behavior to learn?	Observation
65	A gene that only influences the expression of a trait when paired with an identical gene is known as what?	Dominant
66	Who formulated the Law of Effect?	Thorndike
67	All of the following are the areas of interest for Behaviorists EXCEPT:	Unconscious desires
68	Which of the following principle was NOT proposed by Aristotle?	Ground and Figure
69	Which of the following need as proposed by Maslow is fulfilled through marriage and friendship?	Safety
70	Which of the following learning forms an association between two stimuli?	Classical conditioning
71	Which of the following statement best describes "Hormones"?	Chemicals released into the bloodstream by the endocrine glands
72	Which of the following structure of ear is a tube like passage through which the sound waves travel to the inner part of the ear?	Ear drum
73	Helmholtz's explanation of color vision is called as what?	Trichromatic theory
74	Rod-shaped structures in the cell nucleus that contain genes are referred as what?	Chromosomes
75	The wave pattern which becomes more regular and may momentarily shows sharp peaks, or waves that are sharply pointed, is/are called:	Sleep spindles
76	In which of the following process sensory receptors become less sensitive to repeated presentations of the same stimulus?	Sensation
78	In the theory of classical conditioning, the acronym UCR stands for which of the following?	Unconditioned response
79	Jean Piaget is famous for his theory of _____.	Cognitive development
80	Farha is interested to study about progressive change in individuals' body and their functions throughout the life span. She is more likely to study:	Biological changes

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81	All of the following are considered as the founders of gestalt school of thought EXCEPT:	Max Wertheimer
82	Which of the following statement best describes the survey research method?	sample of people are asked questions
83	Which of the following statement best describes "Endocrine glands"?	These are chemicals released into the bloodstream
84	All of the following statements concern with the concept of learning EXCEPT:	Learning is another word for physical growth
85	Which of the following is NOT a part of mid brain?	Cerebrum
86	Which of the following therapy was introduced by Albert Ellis?	Rational-Emotive Behavior Therapy
87	People do take drugs for all of the following reasons Except:	Building relationships
88	Which of the following process is suggested by Bandura that help human behavior to learn?	Observation
89	In "Little Albert" study, which of the following was the fear-producing stimulus used as UCS?	Loud noise
90	Who gave the concept of "Tabula Rasa"?	John Locke
91	Which of the following hormone is involved in the growth and proper functioning of gonads and ovaries?	Gonadotropic
92	Who among the followings gave the concept of Insight?	Wolfgang Kohler
93	Which of the following psychologist refers that environment and external world shapes and determines behavior?	J. B. Watson
94	Which of the followings are the branch-like structures that receive messages from other neurons?	Dendrites
95	Today psychology is considered as the scientific study of which of the followings?	Behavior and mental processes
96	Which of the following syndrome occurs when excessive amounts of glucocorticoid hormones are secreted in the body?	Cushing syndrome
97	Who among the following talked about the "cognitive maps"?	Tolman
98	All of the following are the nature of correlation EXCEPT:	Standard Correlation

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99	Which of the following is a clear and colorless fluid covering the entire surface of central nervous system?	Cerebrospinal fluid
100	Coherent sources of light mean _____.	They must have same frequency
101	Point where force causes system to move without rotation is	center of mass
102	When you step on the accelerator to increase the speed of your car, the force that accelerates the car is	the force of friction of the road on the tires
103	The focal length of a spherical mirror is N times its radius of curvature where N is:	1/2
104	When an object (iron/tungsten) is heated, it emits light, it emits infrared (IR) light when it is heated at a temperature _____.	Below 800 degree C
105	Earth exerts a gravitational force on the Moon, keeping it in its orbit. The reaction to this force, in the sense of Newton's third law, is:	the centripetal force on the Moon
106	The torque about any two points has the same value when the body is in.	translational equilibrium
107	The turning effect of a force is called the force's.	torque/moment
108	The fundamental dimensions of angular momentum are	ML^2T^{-1}
109	Sound waves are	longitudinal
110	A light entering into glass prism from air does not give change in its:	Frequency
111	Add two vectors of length 4 m & 5 m but their orientation is not known, The length after addition of these two vectors will be:	between 9 m and 1 m
112	Which of the following is true of all virtual images?	None of the given
113	The wavelength of red light is 700 nm. Its frequency is _____.	$4.29 * 10^{14}$ Hertz
114	Kirchhoff's first rule is the manifestation of the law of conservation of:	Charge
115	Which of the following will remain unchanged when a sound wave travels in air or in water?	Frequency
116	Bending of light around the edges of an obstacle called:	Diffraction
117	Which of the following statements are TRUE of sound waves? Identify all that apply.	To hear the sound of a tuning fork, the tines of the fork must move air from the fork to one's

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		ear
118	Electric energy is measured:	Kilowatt hour
119	When the momentum of a body is doubled, its kinetic energy _____ .	Becomes four times its initial energy
120	A plane produces a sonic boom only when:	it flies faster than the speed of sound
121	If I_0 is the peak value of an AC supply, then its rms value is given as I_{rms} :	$I_0/\sqrt{2}$
122	A force of 5000N is applied outwardly to each end of a 5.0-m long rod with a radius of 34.0 cm and a Young's modulus of $125 \times 10^8 \text{ N/m}^2$. The elongation of the rod is:	0.0020mm
123	The sum of electric and magnetic force is called:	Lorentz force
124	The total energy in an LC circuit is $5.0 \times 10^{-6} \text{ J}$. If $L = 25\text{mH}$ the maximum current is:	20mA
125	Which of the following electromagnetic radiations has photons with the greatest energy?	x rays
126	According to the equation of work, when a boy sits in one place and studies for the whole night , he does	no work
127	A source of frequency of 500 Hz emits waves of wavelength 0.4 m, how long does the wave take to travel 600 m?	3 s
128	acceleration of an object must be zero at a point where:	the average velocity is zero
129	No lens is perfect because _____.	They suffer from aberration
130	If 0.5 T field over an area of 2m^2 which lies at an angle of 60° with field.. Then the resultant flux will be	0.50 Wb
131	The center of mass of a uniform disk of radius R is located:	at the center
132	Following are the ways by which light can interact with matter, EXCEPT:	Interference
133	A 2.0-kg block travels around a 0.5-m radius circle with an angular velocity of 12 rad/s. Its angular momentum about the center of the circle is:	$12 \text{ kg}\cdot\text{m}^2/\text{s}$
134	If a simple pendulum oscillates with an amplitude 50 mm and time period 2s, then its maximum velocity is.	0.15 m/s
135	The angular momentum vector of Earth about its rotation axis, due to its daily rotation, is directed:	north

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136	Coulomb's law is only true for point charges whose sizes are	Large
137	A generator supplies 100V to the primary coil of a transformer. The primary has 50 turns and the secondary has 500 turns. The secondary voltage is:	1000V
138	Work may be done by _____.	only living organisms
139	A mosquito's buzz is often rated with a decibel rating of 40 dB. Normal conversation is often rated at 60 dB. How many times more intense is normal conversation compared to a mosquito's buzz?	20
140	The least distance of distinct vision for normal eye:	25 cm
141	The amplitude modulation frequency ranges from:	540 kHz to 1600 kHz
142	A sound wave has a wavelength of 3.0m. The distance from a compression center to the adjacent to the rarefaction center is:	need to know frequency
143	A force of 120 N is exerted on a 40 kg container which sits on a floor. If the frictional force between floor and container is 80 N. What is the magnitude of the acceleration of the container?	2 ms^{-2}