THE ASIAN SCHOOL, DEHRADUN MULTIPLE CHOICE QUESTIONS 2019

SUBJECT- PHYSICS	CLASS – X	CHA	APTER-1 LIGHT- REFL	ECTION AND	REFRACTION		
Q1. The line perpendicular to the refl	ective surface is	the			6 G		
a. normal b. line of refr	action	c. line of	fincidence	d. line d	of reflection		
Q2. Your image in a bathroom mirror	results from	•	a chaqular raflactia	2	d diffuce refrection		
a. unuse reflection b. sp			c. specular renectio	11	u. ulliuse refraction		
a in concentric circles	h in i	a straight li	no				
a. In concentric circles	d in a	a straight in a curved lin					
C. always toward a dark area 0 . If a curved line 0 . What is fifty out have an object 2.0 m from the concave mirror, and the image is 4.0 m from the mirror?							
a 20m $b 0.67m$	c 1 3	leave mino I m		+.0 III II 0III (
05. In a concave mirror, an object pla	aced	will result	in a virtual image.				
a. twice the distance of the fo	ocal point						
b. between the focal point ar	nd mirror						
c. between the focal point an	d twice the dista	ance of the	focal point	d. past	the focal point		
Q6. Which type of mirror produces a	n image that is al	lways erect,	, always the same h	eight as the	object, and always		
virtual? a. convex	b. concave		c. plane	d. none	of these		
Q7 is located behind a c	convex mirror.						
a. The focal point	b. A ray		c. A real image	d. The d	object		
Q8. The image from a convex mirror	will						
a. always be real b. alv	ways be projecte	d	c. always be virtual		d. never be virtual		
Q9. Light travels fastest through which	ch of the followin	ng materials	;?				
a. diamond b. wa	ater	c. glass	d. air				
Q10.Focal length of plane mirror is	7						
a. At infinity	b. Zero		c. Negative		d. None of these		
a Real and erect	s h Real and i	nverted	c Virtual a	nd erect	d Virtual and inverted		
Q12.A concave mirror gives real. in	verted and same	e size imag	le if the object is pla	aced			
a. At F b. At infinity	c. At	С	d. Beyond C				
Q13.Power of the lens is -40, its foc	al length is		-				
a. 4m b40m	c0.25m		d25m				
Q14.A concave mirror gives virtual,	refract and enla	irged image	e of the object but i	mage of sm	aller size than the size		
Of the object is a. At infinity	D. Be igher refractive i	index is cal	nd C C. Between	Pand F	d. At E		
a Ontically rarer b Ontically denser c Ontical density d Refractive index							
Q16.The optical phenomena, twinkl	ing of stars, is d	ue to	ar denoity d. r				
a. Atmospheric reflection	b. Total refle	ction	c. Atmospheric refr	action	d. Total refraction		
Q17.Convex lens focus a real, point	sized image at	focus, the	object is placed				
a. At focus b. Between	Fand 2F c. At	infinity	d. At 2F				
Q18. The unit of power of lens is	a Diantar	d M-1					
019 The radius of curvature of a mi	rror is 20cm the	focal lengt	h is				
a. 20cm b. 10cm	c. 40	cm	d. 5cm				
Q20. Complete the sentence. Fric	tion always						
Q21. An Object is placed at a distar	nce of 0.25m in f	ront of a pl	ane mirror. The dis	stance betwo	een the object and		
image will be :		_					
a) 0.25m b) 1.0m	C) 0.5	5m	d) 0.125m				
Q_{22} . The angle of incidence for a ratio Q_{22} .	s ⁰ d) 00		ction angle is :				
Q23 For a real object which of the	following can pr	, oduce a re	al image?				
a) Plane mirror b) Concave	mirror c) Co	oncave lens	d) Convex	mirror			
Q24. Which of the following mirror is	s used by a dent	tist to exam	nine a small cavity?)			
a) Convex mirror b) Plane mir	ror_c) Concave	mirror	d) combination of c	convex and	concave mirror		
Q25. An object at a distance of 30 cm from a concave mirror gets its image at the same point. The focal length of the							
$\frac{111110118}{2000} = \frac{1500}{1000} = \frac{1500}{1000} = \frac{1}{1000} = $							
Q26. An object at a distance of +15 cm is slowly moved towards the pole of a convex mirror. The image will get:							
a) shortened and real b) enlarged and real c) enlarge and virtual d) diminished and virtual							
Q27. The image formed by concave mirror is real, inverted and of the same size as that of the object. The position of							
object should be :							

a) at the focus b) at the centre of curvature c) between focus & centre of curvature d) beyond centre of curvature Q28. The nature of the image formed by concave mirror when the object is placed between the focus (F) and centre of curvature (C) of the mirror observed by us is :

a) real, inverted and diminished

b) virtual, erect and smaller in size

c) real, inverted and enlarged

d) virtual, upright and enlarged

Q29. If a man's face is 25 cm in front of concave shaving mirror producing erect image 1.5 times t he size of face, focal length of the mirror would be :

a) 75cm b) 25cm c) 15cm d) 60cm

Q30. As light travels from a rarer to a denser medium it will have :

a) increased velocity b) decreased velocity c) decreased wavelength d) both a and c

Q31. The angle of incidence I and refraction r are equal in a transparent slab when the value of I is :

a) 0^0 b) 45^0 c) 90^0 d) depend on the material of the slab

Q32. The refractive index of traparent medium is greater than one because :

a) Speed of light in vaccum < speed of light in transparent medium

b) Speed of light in vaccum= speed of light in transparent medium

- c) Speed flight in vaccum= speed of light in transparent medium
- d) Frequency of light wave changes when it moves from rarer to denser medium

Q33. You are given three media A,B and C of refractive index 1.33, 1.65 and 1.46. The medium in which the light will travel fastest is :

a) A b) B c) C d) equal in all three media

Q34. Lights from the Sun falling on a convex lens will converge at a point called :

a) centre of curvature b) focus c) radius of curvature d) optical centre

Q35. Large number of thin strips of black point are made on the surface of a convex lens of a focal length 20 cm to catch the image of a white horse. The image will b e :

- a) a zebra of black strips
- b) a horse of black strips
- c) a horse of less brightness

d) a zebra of less brightness

Q36. A divergent lens will produce :

a) always real image b) always virtual image c) both real & virtual image d) none of these Q37. When object moves closer to convex lens, the image formed by it shift :

- a) away from the lens
- b) towards the lens
- c) first towards and then away from the lens

d) first away and then towards the lens

Q38. When object moves closer to a concave lens the image by it shift :

a) away from the lens on the same side of object

- b) towards the lens
- c) away from the lens on the other side of lens
- d) first towards and then away from the lens

THE ASIAN SCHOOL, DEHRADUN **MULTIPLE CHOICE QUESTIONS 2019**

SUBJECT- PHYSICS CLASS – X Chapter-2 THE HUMAN EYE AND THE COLOURFUL WORLD

Q1. The muscular diaphragm that controls the size of the pupil is :

- a) cornea b) ciliary muscles c) iris d) retina
- Q2. The black opening between the aqueous humour and the lens is called :
- a) retina b) iris c) cornea d) pupil
- Q3. Near and far points of a young person normal eye respectively are :

a) 0 and infinity b) 0 and 25 cm c) 25 cm and infinity d) 25 cm and 150 cm

Q4. The defect of vision in which the person is able to see distant object distinctly but cannot see nearby objects clearly is called :

a) Long sightedness b) Far- sightedness c) Hypermetrpia d) all above

Q5. The ability of eye lens to adjust its focal length to form a sharp image of the object at varying distance on the retina is called :

- a) power of observation of the eye
- b) power of adjustment of the eye
- c) power of accommodation of the eye
- d) power of enabling of the eye

Q6. Myopia and hypermatropia can be corrected by :

- a) concave and plano- convex lens
- b) concave and convex lens
- c) convex and concave lens
- d) plano- concave lens for both defects

Q7. Bi-focal lens are required to correct:

a) astigmatism b) coma c) myopia d) presbyopia

Q8. When while light enters a prism, it gets split into its constituent coloiurs. This is due to :

- a) different refractive index for different wavelength of each colour
- b) each colours has same velocity in the prims
- c) prism material have high density
- d) scattering of light

Q9. The air layer of atmosphere whose temperature is less than the hot layer behave as optically :

- c) inactive medium a) denser medium b) rarer medium d) either denser or rarer medium Q10. Refraction of light by the earth's atompshere due to variation in air density is called:
- a) atmospheric reflection b) atmospheric dispersion c) atmospheric scattering d) atmospheric refraction
- Q11. The deflection of light by minute particles and molecules of the atmosphere in all direction is called......of light: d) tyndell effect
 - a) dispersion b) scattering c) interference
- Q12. One cannot see through the fog. because :
 - a) refractive index of the fog is very high
 - b) light suffers total reflection at droplets
 - c) fog absorbs light
 - d) light is scattered by the droplets

Q13. A person cannot see distinctly object kept beyond 2 m. This defect can be corrected by using a lens of power :

a) +0.5D b) -0.5D c) +0.2D d) -0.2D

Q14. The clear sky appears blue because :

- a) blue light gets absorbed in the atmosphere
- b) ultraviolet radiations are absorbed in the atmosphere
- c) violet and blue lights get scattered more than lights of all other colours by the atmosphere
- d) light of all other colors is scattered more than the violet and blue colour lights by the atmosphere.

Q15. The danger signals installed at the top of tall buildings are red in colour. These can be easily seen from a distance because among all other colours, the red light :

- a) is scattered the most by smoke or fog
- b) is scattered the least by smoke or fog
- c) is absorbed the most by smoke or fog
- d) moves fastest in air

Q16. The bluish colours of water in deep sea is due to :

- a) the presence of algae and other plants found in water
- b) reflection of sky in water
- c) scattering of light
- d) absorption of light by the sea

Q17. When light rays enter the eye, most of the refraction occurs at the : a) crystalline lens b)outer surface of the cornea c) iris d)pupil Q18. The focal length of the eye lens increases when eye muscles : a) are relaxed and lens becomes thinner b)contract and lens becomes thicker c) are relaxed and lens becomes thicker d)contract and lens becomes thinner Q19. Assertion : Myopia is the defect of vision in which a person cannot see th distant objects clearly. Reason : This due to eye-ball being too short Q20. The image formed by retina of human eye is a. Virtual and erect b. Real and inverted c. Virtual and inverted d. Real and erect Q21. The change in the focal length of human eye is caused due to a. Ciliary muscles b. Pupil c. Cornea d. Iris Q22. The least distance of distinct vision for a young adult with normal vision is a. 25 m b. 20 m c. 25 cm d. 20 cm Q23. The persistence of vision for human eye is a. 1/10th of a second b. 1/16th of a second c. 1/6th of the second d. 1/18th of a second Q24. The light sensitive cell present on retina and is sensitive to the intensity of light is: c. Both rods and cones a. Cones b. Rods d. None of these Q25. The phenomena of light responsible for the working of the human eye is a. Reflection b. Refraction c. Power of accommodation d. Persistence of vision Q26. Which of the following colors is least scattered by fog, dust of smoke? a. Violet b. Blue c. Red d. Yellow Q27. The colored light that refracts most while passing through a prism is a. Yellow b. Violet c. Blue d. Red Q28. The amount of light entering the human eye is controlled by b. Pupil a. Ciliary muscles c. Cornea d. Iris Q29. The part of the eyes refracts light entering the eye from external objects? a. Lens b. Cornea c. Iris d. Pupil Q30. The least distance of distinct vision for a nor-mal eye is (a) infinity (b) 25 cm (c) 2.5 cm (d) 25 m Q31. A person cannot see distinctly objects kept beyond 2 m. This defect can be corrected by using a lens of power (a) +0.5 D (b) -0.5 D (c) +0.2 D (d) -0.2 D Q32. The defect of vision in which a person cannot see the distant objects clearly but can see nearby objects clearly is called (b) hypermetropia (a) myopia (c) presbyopia (d) bifocal eye Q33. The splitting of white light into different colours on passing through a prism is called (a) reflection (b) refraction (c) dispersion (d) deviation Q34. At noon, the Sun appears white as (a) blue colour is scattered the most (b) red colour is scattered the most (d) all the colours of the white light are scattered away (c) light is least scattered Q35. Twinkling of stars is due to (a) reflection of light by clouds (b) scattering of light by dust particles (c) dispersion of light by water drops (d) atmospheric refraction of starlight Q36. When white light enters a glass prism from air, the angle of deviation is least for (a) blue light (b) yellow light (c) violet light (d) red light Q37. When white light enters a glass prism from air, the angle of deviation is maximum for (a) blue light (b) yellow light (c) red light (d) violet light Q38. The amount of light entering the eye can be controlled by the (a) iris (b) <u>pupil</u> (c) cornea (d) ciliary muscles Q39. What type of image is formed by the eye lens on the retina? (a) Real and erect (b) Virtual and inverted (c) Real and inverted d) Virtual and erect

THE ASIAN SCHOOL, DEHRADUN **MULTIPLE CHOICE QUESTIONS 2019 SUBJECT- PHYSICS** CLASS – X **Chapter-3 ELECTRICITY** Q1. A wire of length I, made of material resistivity p is cut into two equal parts. the resistivity of the two parts are equal to : a) p b) p/2c) 2p d) 4p Q2. A battery of 10 volt carries 20,000 C of charge through a resisitance of 20Ω . The work done in 10 seconds is c) 2x10⁴ joule b) 2x10⁵ joule d) $2x10^2$ joule a) 2×10^3 joule Q3. A body records that 4000 joule of work is required to transfer 10 coulomb of charge between two points of a resistor of 50Ω . The current passing through it is : a) 2A b) 4A c) 8A d) 16A Q4. To get 2 Ω resistance using only 6 Ω resistors, the number of them required is : b) 3 c) 4 d) 6 a) 2 Q5. Two wires of same length and area made of two materials of resistivity p_1 and p_2 are connected in series to a soruce of potential V. The equivalent resistivity for the same area is : b) p_1p_2/p_1+p_2 a) $p_1 + p_2$ c) $(p_1+p_2)/p_1p_2$ Q6. The least resistance obtained by using 2 Ω , 4, 1 Ω and 100 Ω is : a) <100 Ω d) >2 Ω b) <4 Ω c) <1 Ω Q7. Two resistors are connected in series gives an equivalent resistance of 10 Ω . when connected in parallel, gives 2.4 Ω . Then the individual resistance are : a) each of 5 Ω b) 6 Ω and 4 Ω c) 7 Ω and 4 Ω d) 8 Ω and 2 Ω Q8. The resistance of hot filament of the bulb is about 10 times the cold resistance. What will be the resistance of 100W-220V lamp, when not in use? b) 400 Ω a) 48 Ω c) 484 Ω d) 48.4 Ω Q9. A coil in the heater consume power p on passing current. If it is cut into halves and joined in parallel, it will consume power : a) P b) P/2 c) 2P d) 4P Q10. A fuse wire repeatedly gets burnt when used with a good heater. It is advised to use a fuse wire of : a) more length b) less radius c) less length d) more radius Q11. A cooler of 1500 W, 200 volt and a fan of 500 W 200 volt are to be used from a household supply. The rating of fuse to be used is : a) 2.5A b) 5.0A c) 7.5A d) 10A Q12. A current of 1A is drawn by a filament of an electric bulb. Number of electrons passing through a crosssection of the filament in 16 seconds would be roughly : a) 10²⁰ b) 10¹⁶ c) 10¹⁸ d) 10²³ Q13. What is the maximum resistance which can be made using five resistors each of 1/5W? b) 10 Ω c) 5 Ω d) 1 Ω a) 1/5 Ω Q14. A cylindrical conductor of length I and uniform area of cross section A has resistance R. Another conductor of length 2I and resistance R of the same material has area of cross-section. a) A/2 b) 2A/2 c) 2A d) 2A Q15.If the current I through a resistor is increased by 100% (assume that temperature remains unchanged), the increase in power dissipated will be : a) 100% b) 200% c) 300% d) 400% Q16. What is the rate of flow of electric charges called? (a) Electric potential (b) electric conductance (c) Electric current (d) none of these Q17. Which of the following is the SI Unit of Electric Current? (a) ohm (b) ampere (c) volt (d) faraday Q18. Which instrument is used for measuring electric potential? (a) Ammeter (b) galvanometer (c) voltmeter (d) potentiometer Q19. When one unit electric charge moves from one point to another point in an electric circuit, then the

amount of work done in joules is known as?

- (a) Electric current
- (b) electric resistance(d) potential difference
- (c) electric conductance

Q20. The hindrance presented by material of conductor to the smooth passing of electric current is known as: (a) Resistance (b) Conductance (c) Inductance (d) None of these

Q21. The resistance of a conductor is directly proportional to:

(a) Its area of cross-section (b) density (c) melting point (d) length Q22. The purpose of a rheostat is:

(a) Increase the magnitude of current only (b) Decrease the magnitude of current only

(c) Increase or decrease the magnitude of current (d) None of these

Q23. Point to be kept in mind for verification of Ohm's Law is:

(a) Ammeter and voltmeter should be connected in series

(b) Ammeter should be connected in series and voltmeter in parallel

(c) Ammeter should be connected in parallel and voltmeter in series

(d) Ammeter and voltmeter should be connected in parallel

Q24. When a 40V battery is connected across an unknown resistor there is a current of 100 mA in the circuit. Find the value of the resistance of the resister:

(a) 5000Ω (b) 800Ω (c) 0.8Ω (d) none of these

Q25. A battery of 6V is connected in series with resisters of 0.1 ohm , 0.15 ohm,0.2 ohm,0.25 ohm and 6 ohm. How much current would flow through the 0.3 ohm resistor?

(a) 0.895A (b) 2.22A (c) 1A (d) none of these

Q26. A fuse wire is inserted in a?

(a) . Live wire (b) . In the neutral wire (c) . In the earth wire (d) . May be connected in any line. Q27. Electric potential is a:

(a) scalar quantity (b) vector quantity

(c) neither scalar nor vector (d) sometimes scalar and sometimes vector

Q28. 1 mV is equal to:

(a) 10 volt (b) 1000 volt (c) 10-3 volt (d) 10-6 volt

Q29. Coulomb is the SI unit of:

(a) charge (b) current (c) potential difference (d) resistance

Q30. When electric current is passed, electrons move from:

(a) high potential to low potential.

(b) low potential to high potential.

(c) in the direction of the current.

(d) against the direction of the current

Q31. The heating element of an electric iron is made up of:

(a) copper (b) nichrome (c) aluminium (d) iron

Q32. The electrical resistance of insulators is (a) high (b) low (c) zero

(b) low (c) zero (d) infinitely high

Q33. Electrical resistivity of any given metallic wire depends upon

(a) its thickness (b) its shape (c) nature of the material (d) its length

Q34. Which of the following is not correctly matched?

(a) -+ : An electric cell

(b) _____: A resistor

(c) ____(•)___: Open plug key

Q35. Three resistors of 1 Ω , 2 ft and 3 Ω are connected in parallel. The combined resistance of the three resistors should be

(a) greater than 3 Ω

(b) less than 1 $\boldsymbol{\Omega}$

(c) equal to 2 $\boldsymbol{\Omega}$

(d) between 1 Ω and 3 Ω

THE ASIAN SCHOOL, DEHRADUN MULTIPLE CHOICE QUESTIONS 2019

SUBJECT- PHYSICS

Q1. Magnetic effect of current was discovered by :

Chapter-4 MAGNETIC EFFECTS OF ELECTRIC CURRENT

a) Oersted b) Faraday c) Bohr

Q2. Inside the magnet, the field lines moves :

- a) From north to south b) from south the north c) away from south pole d) away from north pole
- Q3. Relative strength of magnetic field at a point in the space surrounding the magnet is show by the :
- a) length of magnet b) thickness of magnet c) degree of closeness of the field d) resistance offered by the surroundings

d) Ampere

Q4. Which of the following statement is not correct about the magnetic field?

CLASS – X

- a) Magnetic field lines form a continuous closed curve
- b) Direction of tangent at any point on the magnetic field line curve gives the direction of magnetic field at that point
- c) Magnetic field line do not interest each other
- d) Outside the magnet, magnetic field lines go from South to North pole of the magnet

Q5. By which instrument, the presence of magnetic field be determined?

- a) Magnetic needle b) Ammeter c) Galvanometer d) Voltmeter
- Q6. The pattern of the magnetic field produced by the straight current carrying conducting wire is :
 - a) in the direction opposite to the current
 - b) in the direction parallel to the wire
 - c) circular around the wire
 - d) in the same direction of current

Q7. The strength of magnetic field around a current carrying conductor is :

- a) inversely proportional to the current but directly proportional to the square of the distance from wire.
- b) directly proportional to the current and inversely proportional to the distance from wire
- c) directly proportional to the distance and inversely proportional to the current
- d) directly proportional to the current but inversely proportional the square of the distance from wire

Q8. A current through a horizontal power line flows from south to north direction. The direction of magnetic fieldline0.5m above it is :a) Northb) Southc) Westd) East

Q9. The factors on which one magnetic field strength produced by current carrying solenoids depends are :

a) Magnitude of current b) number c) Nature of core material d) All of the above

Q10. When current is parallel to magnetic field, then force experience by the current carrying conductor placed in uniform magnetid field is :

a) Twice to that when angle is 60° b) Thrice to the when angle is 60°

c) Zero

d) infinite

Q11. In electric motor, to make the coil rotating continuously in the same direction, current is reversed in the coil after every half rotation by a device called:

- a) carbon brush b) commentator c) slip ring d) armature
- Q12. The instrument that use to defect electric current in the circuit is known as :
 - a) electric motor b) A.C. Generator c) Galvanometer d) none of the above

Q13. A magnet is moved towards a coil (i) quickly (ii) slowly. The induced potential difference

- a) more in (i) than in (ii) case
- b) more in (ii) than in (i) case
- c) same in both
- d) can't say

Q14 A.C generator works on the principle of :

- a) force experience by a conductor in magnetic field.
- b) electromagnetic induction
- c) electrostatic

d) force experience by a charge particle in electric field

- Q15. Fleming's left hand and right hand rules are used in :
 - a) Generator and electric motor
 - b) Electric motor and generator
 - c) any rule can be used for any device
 - d) both are not applied for generator and motor.

Q16. AD.C generator works on the principle of :

a) ohnis law b) Joule's law of heating c) faraday's law of electromagnetic induction d) none of the above

Q17. If the current values periodically from zero to a maximum value, back to zero and then reverses its direction, the current is : a) direct b) alternative c) pulsating d) none of the above Q18. What should be the core of an electromagnet? a. soft iron b. hard iron c. rusted iron d. none of above Q19. Who has stated the Right hand Thumb Rule? a. Orsted b. Fleming c. Einstein d. Maxwell Q20. In all the electrical appliances, the switches are put in the a. live wire b. earth wire c. neutral wire d. all of above Q21. What is the condition of an electromagnetic induction? a. there must be a relative motion between the coil of wire and galvanometer b. there must be a relative motion between the galvanometer and a magnet c. there must be a relative motion between galvanometer and generator d. there must be a relative motion between the coil of wire and a magnet Q22. No force acts on a current carrying conductor when it is placeda. perpendicular to the magnetic field b. parallel to the magnetic field c. far away from the magnetic field d. inside a magnetic field Q23. What is that instrument which can detect the presence of electric current in a circuit? a. galvanometer b. motor c. generator d. none of above Q24. Which device produces the electric current? a. generator b. galvanometer c. ammeter d. motor Q25. What is electromagnetic induction? a. the process of charging a body b. The process of rotating a coil of an electric motor. c. producing induced current in a coil due to relative motion between a magnet and the coil d. The process of generating magnetic field due to a current passing through a coil. Q26. What happens to the current in short circuit? a. reduces substantially b.does not change c. increases heavily d. vary continuously Q27. An alpha particle is diverted towards west is deflected towards north by a field. The field is magnetic. What will be the direction of field? a. Towards south b. towards east c. downward d. upward Q28. The best material to make permanent magnets is (a) aluminium (b) soft iron (c) copper (d) alnico Q29. The magnetic field lines always begin from (a) N-pole and end on S-pole. (b) S-pole and end on N-pole. (c) start from the middle and end at N-pole. (d) start from the middle and end at S-pole. Q30. The magnetic field is the strongest at (a) middle of the magnet. (b) north pole (c) south pole. (d) both poles. Q31. Material of the core of a strong magnet is (a) aluminium (b) soft iron (c) copper (d) steel Q32. Magnetic lines of force inside current carrying solenoid are (b) along the axis and are parallel to each other. (a) perpendicular to axis. (c) parallel inside the solenoid and circular at the ends. (d) circular. Q33. A soft iron bar is introduced inside a current carrying solenoid. The magnetic field inside the solenoid (a) will become zero. (b) will increase. (c) will decrease. (d) will remain unaffected. Q34. An electric generator actually acts as (a) a source of electric charge. (b) a source of neat energy. (c) an electromagnet. (d) a converter of energy. Q35. A magnetic field directed in north direction acts on an electron moving in east direction. The magnetic force on the electron will act (a) vertically upwards. (b) towards east. (c) vertically downwards. (d) towards north.

(c) earth wire. (d) any one.

Q36. Switches are connected to

(a) live wire. (b) neutral wire.

Q37. The most important safety method used for protecting home appliances from short-circuiting or Overloading is

(a) earthing (b) use of stabilizers (c) use of fuse

(d) use of electric meter

THE ASIAN SCHOOL, DEHRADUN MULTIPLE CHOICE QUESTIONS 2019

		Chantor F			
O1 An ideal source of energy should have :	.55 - A	Chapter-3	SOURCE OF ENERGY		
a) higher calorific value					
h) easy transportability					
c) easy accessibility d) all of th	າຍເຍ				
O2. Fossile fuels are :	lese				
a) non-renewable source of energy	b) re	newable source o	fenergy		
c) both a and b	d) Ne	ither a nor b			
Q3. Dead organisms are transformed into petroleu	um and nati	Iral gas in :			
a) presence of air b) absence of air	c) pre	esence of sunlight	d)none of the above		
Q4. Which of the following problem is associated v	with a burni	ng of coal?	-		
a) carbon-dioxide emission b) acid rai	in c) asł	n with toxic metal	supurity d) all of these		
Q5. Hydropower plant are located in the :					
a) desert area b) plane area c) hilly ter	rains d) no	ne of above			
Q6. Biogas is a beter fuel than animal dung cake b	ecause :				
 a) biogas has lower calorific value 					
b) animal dung cake has high calorific value					
c) biogas burs smoke and leaves no residue					
d) biogas is used as a fuel for cooking only w	heaareas du	ing cake can be us	sed for cooking, illuminant the lanterns		
Q7. Which of the following organism produces bio	igas from co	w drug sherry in t	the blogas plant?		
a) aerobic bectria b) anaerobic bect	ria c) pro	DIOZOA	a) tungi		
Q8. What are the disadvantage of solar energy :	color				
a) a large surface area is required collect the	Soldi A to 7 kmb/	m^2			
c) highly bazardous toxic material is used in t	the manufa	n cturing of solar de	vice		
d) all of the manufacturing of solar device			vice		
Og The temperature inside the solar cooker range	es from ·				
a) $500-1000^{\circ}$ b) $100-40^{\circ}$: nonn در c) 15	0-200 ⁰ C d) 70-8	80°C		
O10. The use of reflector in the solar cooker is to :	c) 10				
a) Decrease efficiency b) create green ho	ouse effect	c) increase effi	ciency d) none of these		
Q11. Solar cells are made of a) germanimum	b) sili	con c) silve	r d) aluminium		
Q12. The material used for inter connection the so	olar cells in t	he solar panel is :			
a) silicon b) silverc) aluminium d) copper		·			
Q13. A solar panel is made by combining in an arra	angement :				
a) solar concentrator b) solar cooker c)	solar cells	d) solar chimn	2y		
Q14. Tidal energy is a farm of energy obtained from	m the :				
 a) motion of surface water in ponds 	b) oc	ean in the form o	tidal waves		
c) tides occurs in the river water	d) ma	otion of the wave	in sea		
Q15. Wave energy is caused due to :					
a) strong winds blowing across the sea					
b) kinetic energy possessed by huge waves n	ear the sea	shore			
c) potential energy possessed by the stored	water	d) boti	h a and b		
Q16. The working fluid in ocean thermal power pla	ant is :				
a) Volatile liquid like ammonia b) petrol	c) cha	arcoal d) liqu	efied petroleum gas		
Q17. Geothermal energy is :					
a) Heat energy in the interior of earth	of magma in	cida tha aarth			
c) molton lava on the surface of earth	n nagina m a) aa	side the earth	m colar thormal clostric plants		
018 1L225 will undergo fission by :	u) en	eigy obtailled ito	in solar thermal electric plants		
a) low energy neutrons only b) high en	argy neutro	ons only c) mer	ium energy neutrons		
d) low energy protons only by flighten	ici by neutro		нап спетду пеционо		
019. In a hydro power plant:					
a) Potential energy possessed by stored wate	er is conver	ted into electricity	,		
b) kinetic energy possessed by stored water	is converter	into potential er	ergv		
c) Electricity is extracted from water	Electricity is extracted from water d) water is converted into steam to produce electricity				

Q20. A body of mass 1kg is attracted by the earth with a force which is equal to b. 6.67x 10¹¹ c. 1 N a. 9.8N d. 9.8m/s Q21. Which is the most popular kitchen fuel in India? a. LPG b. Kerosene d. Firewood c. Coal Q22. Which method is used to produce electricity in hydroelectric power plant. a. By boiling the water to produce steam b. By ionizing water c. By running dynamo by kinetic energy d. Any of the above Q23. Which of the following is the odd one out? b. Hydro electricity d. CNG a. Petroleum c. Coal Q24. Which method is used to produce electricity in thermal power plant? a. By heating chargeable cells b. By boiling water c. By pushing pistons by heat energy d. Any of above Q25. Which of the following is a component of bio-gas? a. Methane b. LPG c. CNG d. Hydrogen sulphide Q26. Which of the following produces energy because of temperature difference at various levels in ocean. a. Tidal energy b. Wave energy c. Solar energy d. Ocean thermal energy Q27 Which energy source is the largest source used in India? a. CNG b. LPG c. Coal d. Bio Gas Q28. Which of the following is normally used in solar cookers for trapping solar energy? a. Solar panels b. Silicon cells c. Mirrors d. Any of above Q29. In which of the following kinetic energy is converted into electrical energy? a. Tidal energy b. Hydro energy c. Wind energy d. All of these Q30. Which of the following is the ultimate source of energy for us? b. Nuclear c. Solar d. CNG a. LPG Q31. A good fuel should possess (a) high ignition temperature (b) moderate ignition temperature (d) both high calorific value and moderate ignition temperature (c) high calorific value Q32. The variety of coal which has the highest car-bon content (a) Anthracite (b) Peat (c) Bituminous (d) Lignite Q33. Unit of calorific value of a substance is (a) Kcal (b) Joules (c) J kg (d) J/kgQ34. Biogas is formed in the (a) presence of air only (b) presence of water only (d) presence of water and absence of air (c) absence of air only Q35. Solar energy can be directly converted to electrical energy by which of the following de-vices? (a) solar cooker (b) solar heater (c) solar cell (d) solar geyser Q36. Which of the following is the ultimate source of energy? (b) Sun (c) Fossil fuels (d) Uranium (a) Water Q37. Which of the following gases is the main con-stituent of natural gas? (a) Methane (b) Ethane (c) Propane (d) Butane Q38. Which element is used in solar cells? (a) Carbon (b) Silicon (c) Phosphorous (d) Sulphur Q39. One major problem in harnessing nuclear energy is (a) converting nuclear energy into electrical energy. (b) sustaining the reaction. (e) splitting the nuclei. (d) disposing off spent fuel easily. Q40. Spent slurry (Bio-waste after obtaining biogas) is used as (c) food for livestock (d) used again for generating biogas (a) fuel (b) manure