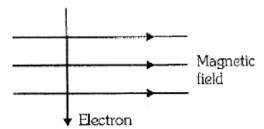


SCHOLARSHIP EXAMINATION CLASS 10TH PHYSICS PAPER

TIME: TOTAL 2 HRS. TOTAL MARKS: 15

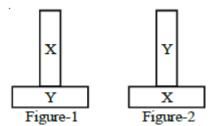
- ***** MULTIPALE CHOICE QUESTIONS: Tick only one correct option.
- **Q.1** An electron enters in a magnetic field at right angles to it as shown in figure. The direction of force action on the electron will be



- (A) To the right
- (B) To the left
- (C) Out of the page
- (D) Into the page
- $\mathbf{0.2}$ The length of a bar magnet is 2l, the distance between magnetic poles will be
- (A) between 0 *l*
- (B) between *l* 2*l*

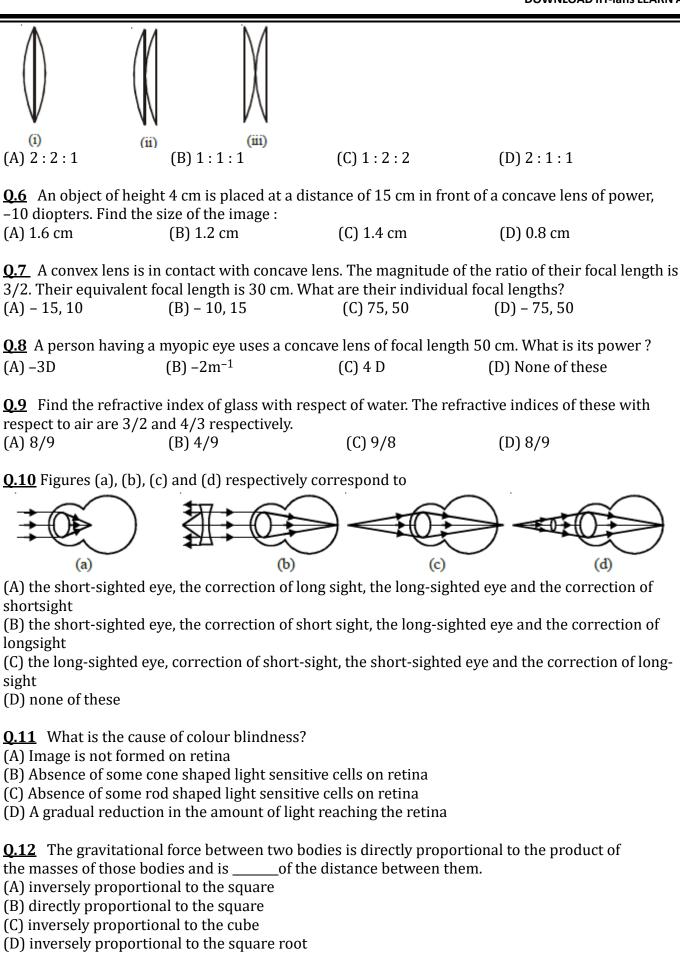
(C) equal to 2*l*

- (D) equal to r
- **Q.3** Two identical metal bars X and Y are positioned in the two diagrams shown below



If there is a strong attraction in figure-1 and weak attraction in figure-2. What are the possible materials X and Y?

- (A) Steel bar, iron bar
- (B) Steel bar, bar magnet
- (C) Bar magnet, steel bar
- (D) Bar magnet, bar magnet
- **Q.4** A charged particle having charge 3.2×10^{-19} C is traveling with a speed of 1.0×10^6 ms⁻¹. When it passes perpendicular to the magnetic field 0.4 T, then the force experienced by it is :
- (A) 12.8×10^{-13} N
- (B) $1.28 \times 10^{-13} \text{ N}$
- (C) 19.2×10^{-15} N
- (D) 1.92×10^{-15} N
- **Q.5** Two identical plano-convex lenses can be combined in three ways, as shown. The ratio of the focal lengths of there combinations will be:



Q.13 The value of universal gravitational constant (G) in SI unit is _____.

(B) $6.673 \times 10^{11} \text{ Nm/kg}$

(D) $9.673 \times 10^{-11} \text{ Nm}^2/\text{ kg}^2$

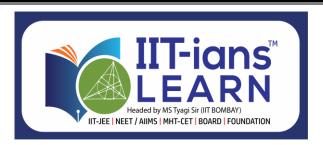
(A) $6.673 \times 10^{-11} \text{ Nm}^2/\text{ kg}^2$

(C) 9.673×10^{-11} Nm/kg

Q.14 The value of gr (A) 9.78 m/s2 (C) 9.8 m/s2		n(g) isat the equat (B) 9.832 m/s2 (D) 6.67 m/s2	tor.	
Q.15 heat is necessary to raise 1 Kg of water from 14.5° C to 15.5° C.				
(A) 4180 Joul	(B)1 KJoul	(C) calorie	(D) 4180 calorie	



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SCHOLARSHIP EXAMINATION CLASS 10TH CHEMISTRY PAPER

<u>MARKS : 15</u>

TIME : TOTAL 2HRS.		TOTAL I
* MULTIPALE CHOICE QUEST	TIONS : Tick only one corr	ect option.
Q.16 In fullerene carbon atoms are (A) tetragons and pentagons (C) Pentagons and heptagons	_	5
Q.17 C–C bond length in diamond at (A) 1.54 Å and 1.42 Å (C) 1.44 Å and 1.50 Å		
Q.18 The allotropes of carbon is/arc(A) Diamond (B) Graphite		(D) All of the above
Q.19. Which of the following contain (A) Pantane (B) Diamond		(D) None of these
Q.20 One important merit of modern (A) it explains why elements in the sa (B) hydrogen has been placed accura (C) isobars have not been placed sep (D) it is based on classifying element	ame group have the same chem ately. arately.	
Q.21 The noble gases among the fol(A) hydrogen, nitrogen and oxygen.(C) helium, neon and argon.	_	
Q.22 Which of the following pairs of (A) Cl, Br (B) N, P	f elements does not belong to s (C) Mg, Ca (D) Al, S	
Q.23 All the elements of a period hat (A) atomic mass (B) atomic number		number of shells
	s colour change is occurring? (B) $CaCO_3 + 2HC1 \longrightarrow CaCl_2 + $ (D) $2NaHCO_3 \stackrel{\Delta}{\longrightarrow} Na_2CO_3 + H$	_

Q.25 In the equation, a Al + bH_2SO_4 \longrightarrow $cAl2(SO_4)_3 + dH_2$ a, b, c, d are respectively -

(D) 2, 2, 3, 3

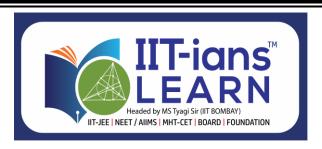
(B) 2, 3, 1, 3 (C) 2, 3, 2, 3

(A) 2, 3, 1, 1

Q.26 What is the co	olour change when lea (B) red to black	d tetroxide on heating is (C) red to yellow	s converted into lead monoxide ? (D) yellow to red	
 Q.27 Lime water can be used for testing carbon dioxide gas because: (A) the gas can readily dissolve in lime water (B) a white precipitate is immediately formed on passing gas through lime water (C) lime water becomes milky. (D) lime water initially becomes milky and the milkiness disappears after sometime on passing the gas in excess. 				
Q.28 Among the foliation (A)Hydrogen	llowing, the strongest (B) Copper	reducing agent is (C) Magnesium	(D) Nickle	
 Q.29 Few statements about the metals are given below and matched with the metals. Mark the incorrect match. (A) A metal used in joining electric wires -Magnesium. (B) A metal whose oxide is amphoteric -Zinc. (C) A metal unreactive towards oxygen and dilute acids -Gold. (D) A metal extracted by using electrolytic reduction -Aluminium. 				
	following metal becon (B) K		(D) Ga	



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SCHOLARSHIP EXAMINATION CLASS 10TH BIOLOGY PAPER

TIME: TOTAL 2 HRS.	TOTAL MARKS: 15
MULTIPALE CHOICE QUEST	TIONS : Tick only one correct option.
-	t is common to <i>Amoeba, Spirogyra</i> and <i>Yeast</i> is that (B) They are all unicellular (D) They are all multicellular
Q.32 Each female flower consists o (A) ovary (C) ovary, style and stigma	f (B) stigma (D) thalamus
Q.33 The genetic information is sto (A) DNA (C) Ribosome	ored in - (B) RNA (D) ER
Q.34 Double fertilization is (A) fusion of two male gametes with (B) fusion of one male gamete with (C) both are correct (D) both are incorrect	egg egg and the other male gamete with the polar bodies
Q.35 The process of reproduction v (A) sexual reproduction (C) none of these	which involves only a single parent to form an individual (B) asexual reproduction (D) Both A & B are correct
Q.36 Oxygen is transported in bloo (A) Leucocytes (C) Thrombocytes	d mainly by (B) Erythrocytes (D) Blood plasma
Q.37 In anaerobic respiration (A) O2 is take in (B) CO2 is taken in (G	C) O2 is given out (D) Co2 is given out
Q.38 Transfer of information from 1 (A) translocation (C) transcription.	nolecules of DNA to mRNA is called process. (B) translation (D) differentiation
0.39 is not a part of mitosis	5.

(B) Diplatin

(D) Cytokinesis

A. Anaphase

C. Prophase

the uterus.	technique is used if there is a problem in implantation of embryo in
(A) Surrogacy.(C) In vitro fertilization.	(B) Sperm bank (D) none of these.
(o) in viero fer imzation.	(b) none of these.
	tic against treatment of tuberculosis.
(A) Penicillin.	(B) Rifamycin
(C) Streptomycin.	(D) Bacitracin.
Q. 42 is the revolutionary	event in biotechnology after cloning.
(A) Human genome project	(B) DNA discovery
(C) Stem cell research	
Q. 43 The disease related with	the synthesis of insulin is
(A) cancer	(B) arthritis
(C) heart disease	(D) diabetes.
Q. 44 Continuous consumption on the mouth and lung.	of substances causes carcinogenic especially
(A)hot	(B) sweet
(C) spicy	(D) tobacco like
Q.45 Methods like artificial inset for	emination and embryo transplant are mainly used
	(B) wild life
(C) pet animals.	(D) infertile women.



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