

KTET-3 PHYSICAL SCIENCE

ANSWER KEY

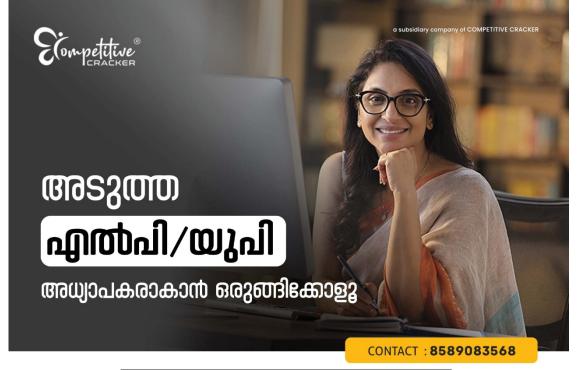
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സ്വന്തമാക്കാൻ ദീർഘകാല കോഴ്സിൽ ജോയിൻ ചെയ്യു

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Physical Science Question Numbers 71 to 150

71. Weight of a body having mass 10 kg is:	76.	The process used for the manufacture o chlorine is :		
(B) 9.8 N (C) 980 N (D) 0.98 N		(A) Contact process (B) Deacon process (C) Haber process		
72. Which of the following is a heterogeneous mixture ?		(D) Solvay process		
(A) Blood (B) Liquid dish wash (C) Brine	77.	Amount of heat energy required to convertunit mass of a substance from one state to another at its melting point:		
(R) Brass		(A) Heat capacity(B) Specific heat capacity		

,(B) Formation of CO2 from carbon and Neutralization reaction between acid (D) Combustion of methane Which among the following is the most abundant element in the Universe ?

(A) Dissolution of NH₄Cl in water

reaction ?

- (A) helium (B) hydrogen (C) oxygen _(D) nitrogen To which of the following is Bohr's theory applicable?
- (A) Be+ (B) Li²⁺ He²

(D) He KC-3014

(C) Calorific value (D) Latent heat 78. In carbon-60 all carbon atoms are: ${\rm sp^2}$ hybridized with a graphite-like shape sp² hybridized with a diamond shape (C) $\mathrm{sp}^3\,\mathrm{hybridized}$ with a square antiprism sp² hybridized with a truncated icosahedron shape

Name the rule behind the working of electric (A) Flemings right hand rule Amperes swimming rule (C) Right hand thumb rule (D) Flemings left hand rule

- **80.** Which of the following represents mathematical expression of Newton's second law of motion ? Fα (B)
 - (C) $F \propto \frac{mv}{c}$ (D) $F \propto \frac{dx}{dt}$
- **81.** Name the nature of waves propagated from a stretched string. (A) Transverse
 - (B) Longitudinal (C) Electromagnetic (D) Ultraviolet
- 82. In the electrolysis of alumina, cryolite is added to:
 - (i) increase the electrical conductivity lower the melting point of alumina
 - (iii) minimise anode effect (iv) remove impurities from alumina (A) (ii) and (iv)
- (B) (ii) and (iii) (C) (iii) and (iv) (D) (i) and (ii)

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- When an ebonite rod is rubbed with a piece of woolen cloth, ebonite rod acquires:
 - (A) Same charge (B) No charge (C) Positive (D) Negative

- In soap industry glycerol can be separated from spent-lye by using
 - (A) centrifugation (B) distillation under reduced pressure filtration
- (D) differential extraction 85. Reciprocal of resistance is
- (A) Reactance √B) Conductance Capacitance
 - (D) Inductance
- Ten 5 $\boldsymbol{\Omega}$ resistors are connected in parallel. What is the effective resistance of the combination? (A) 10



- 87. The pH of 10^{-8} M HCl will be approximately -(A) 2 (B) 7
 - (D) 1
 - 88. Kinetic and Potential energies belongs to (A) Electromagnetic energy •(B) Mechanical energy
 - (C) Mass-energy (D) Sound energy
 - Which of the following metal can displace hydrogen from mineral acids?
 - (A) Zn (B) Ag (C) Au (D) Cu

*The key is prepared by the faculty panel of Competitive Cracker. It is recommended to wait until the release of Kerala pareeksha bhavan key for the final confirmation in your marks.

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90. The concentration term that depends on 95. Which of the following do not undergo salt

90.	The concentration term that depends on temperature is: (A) Mass percentage (B) Molarity (C) Molality (D) Mole fraction A flask is of a capacity of 1 litre. How much		Which of the following do not undergo salt hydrolysis? (A) CH ₃ COONa (B) NH ₄ CI (C) KCI (D) CH ₃ COONH ₄ Use of a transistor is as:	100.	Which of the following electro- configurations represents the element with maximum electron gain enthalpy? (A) 1s² 2s² 2p6 (B) 1s² 2s² 2p5 (C) 1s² 2s² 2p6 3s¹ (D) 1s² 2s² 2p6 3s² 3p5	nic 105. ith	If angle between two reflecting surfaces is 60°, how many images are formed? (A). 2 (B) 3 (C) 6 (D) 5
71.	increase in its capacity is required to accommodate the excess volume of air in the flask when it is heated from 27°C to 37°C? Assume pressure to be constant: (A) 33.3 mL (B) 3.33 mL (C) 1.033 L (D) 1 L		(A) an amplifier (B) an oscillator (C) a switch (D) all of these The device used to reduce current in a circuit without power lose:	•	(A) Lithium chloride (B) Nitrogen dioxide (C) Sulphuric acid (D) All of the above	e ?	The spherical mirror which is used in beauty parlour for shaving purpose is: (A) Convex mirror (B) Concave mirror (C) Plane mirror (D) Plano concave mirror
92.	Small drop of liquids assume spherical shape, because: (A) spherical drop has symmetrical distribution of force (B) spherical drop has the least adsorption power (C) for a given volume, a sphere assumes	98.	(A) Capacitor (B) Resistor (C) Inductor (D) Transistor Which of the following statement is incorrect for cathode rays?	102	The most basic oxide among the follow is: (A) Na ₂ O (B) Cl ₂ O ₇ (C) Al ₂ O ₃ (D) N ₂ O	ing 107.	According to magnetic behavior of a substance 'Cobalt' belongs to : (A) Paramagnetic substance (B) Ferromagnetic (C) Diamagnetic (D) None of these
	(D) for a given volume, a sphere assumes the largest surface area		 (A) Cathode rays consist of negatively charged particles. (B) They are deflected by electric and magnetic fields. 	103	 Minimum velocity with which a body n be projected so that it escapes from gravitational attraction of earth permane is: 	the 108	. When a wave travells from one medium to another which of the following remains the same ?
93. 94.	In commercial power generators which of the following is used as stator? (A) Armature (B) Field magnet (C) Brush _(D) Slip rings The amount of water (g) produced by the combustion of 16 g of methane: (A) 9 g _(B) 16 g _(C) 18 g _(D) 36 g	99.	(C) The characteristics of cathode rays depend upon the material of electrodes. (D) The characteristics of cathode rays do not depend upon the nature of the gas present in the cathode ray tube. The IUPAC name of (CH ₃) ₂ CHCH(CH ₃) ₂ is: (A) 2,3-Dimethylbutane (B) 1,2-Di-isopropylethane (C) 1,1,2,2-Tetramethylethane (D) 1,5-Dimethylbutane	10	(A). Orbital velocity (B) Escape velocity (C) Uniform velocity (D) Critical velocity 4. To estimate the speed of aeropla automobile, etc. which of the following et is used? (A) Zeebect effect (B) Thomson effect (C) Joules effect (D) Doppler effect	ine, 109.	(A) Wavelength (B) Velocity (C) Frequency (D) None of the above Which of the following is not a reason for the anomalous properties of nitrogen? (A) Small size (B) High ionization enthalpy (C) Availability of d orbitals (D) High electronegativity
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	rarer medium Light ray must travel perpendicular to surface of separation	(B) Activity Aids (C) Digital learning Aids (D) Learning Aids	(C) Multiple choice and Short answer type tests (D) Essay type and Short answer type tests	(B) (a) - (iv); (b) - (i); (c) - (ii); (d) - (iii) (a) - (i); (b) - (iv); (c) - (ii); (d) - (iii) (a) - (i); (b) - (ii); (c) - (iv); (d) - (iii)
(C)	medium Light ray must travel from denser to	are : (A) Improvised Aids	(B) Short answer and Multiple choice type tests	The correct match is : (A) (a) - (iv); (b) - (ii); (c) - (i); (d) - (iii)
	denser medium Light ray must travel through same	Learning aids prepared by students with simple and available inexpensive materials	tests	(c) Gagne (iii) Scaffolding (d) Vygotsky (iv) Accommodation
refle	extion is : Light ray must travel from rarer to	(D) $(n-2)d^{1-10} ns^{1-2}$	126. Scoring Key and Marking scheme are prepared respectively for: (A) Essay type and Multiple choice type	model (b) Bruner (ii) Chain Learning
()	essary condition to occur total internal	(B) $(n-1)d^{10} ns^2$ (C) $(n-1)d^{1-10} ns^{1-2}$		131. Match the following : (a) Piaget (i) Concept Attainmen
(-)	0.5 0.6	(A) $(n-1)d^{1-10} ns^2$	(C) Summative evaluation (D) Diagnostic evaluation	· ·
	0.3	120. Which of the following represents the general outer electronic configuration of d-block elements?	(A) Unit evaluation (B) Formative evaluation	(C) Applying (D) Evaluating
(-)	ee voltage of silicon is :	(D) CaCl ₂	125. Type of evaluation used to assign grades to students:	Cognitive domain is: (A) Creating (B) Analyzing
(C) (D)	Inclined to time axis	(B) CuCl (C) NaCl	(D) Skill	130. In Revised Bloom's Taxonomy, the lowes objective in the given hierarchy of th
is: (A) (B)	Parallel to the time axis	119. Which of the following is the most ionic? (A) SnCl ₂	(B) Attitude (C) Aptitude	(D) Biographical Method
	sition-time graph of a stationary object	(D) PO ₄ 3	scientific : (A) Literacy	(B) Historic Method (C) Project Method
	$\begin{array}{c} 6.022 \times 10^{18} \\ 6.022 \times 10^{23} \end{array}$	(B) SO ₄ ² - (C) NO ₃ -	free from bias and superstitious beliefs. The teacher is purposefully trying to develop	and philosopher in : (A) Lecture Method
(B)	$\begin{array}{c} 6.022 \times 10^{20} \\ 6.022 \times 10^{21} \end{array}$	value of flocculating power? (A) SO ₃ 2-	124. A teacher facilitates his/her students to be	129. The role of a teacher is that of a guide, friend
sol	te number of sodium ions in 1 molar NaOH lution is :	118. Which of the following ions have minimum	(C) Scientific creativity(D) Scientific literacy	(C) Behavourist learning (D) Cognitive learning
`	Hookes law	(C) Scattering (D) Refraction	(B) Scientific attitude	(A) Abstract learning (B) Experiential learning
(B)	Bernoulli's principle Pascal's law Ohm's law	following phenomenon of light? (A) Dispersion (B) Reflection	 123. The student is prepared to reconsider his/her own judgement in the light of new evidence has developed: (A) Manipulative skills 	128. The type of learning emphasized when learning takes place through first-hand experience:
(B) (C) (D)) Absence of surface tension	(A) - 32°C (B) 305°C (C) 0°C ∫D) 100°C 117. Rainbow is formed due to which of the	(A) Deriving the unit of force (B) Explaining the concept of Mass (C) Explaining Galvanic cell (D) Classifying levers	reactions is: (A) Flow chart (B) Tree chart (C) Tabular chart (D) Flip chart
	ot water is preferred to cold water in aning clothes because of :	116. Temperature of a body in Fahrenheit scale is 32°F. What is the value in Celsius scale?	122. An instance where knowledge of Chemistry is desirable to understand the concept in Physics is while:	127. The most appropriate chart that can be used for distinguishing Oxidation and reduction





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132. Complete the following:

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(C) Historical Method (D) Heuristic Method

Advance Organiser: Advance organizer

	model ; Examplers :	examples of the concept. The approach used by the teacher is:
	(A) Concept Attainment Model	(A) Induction
	(B) Inquiry Training Model	
	(C) Synectic Model	(B) Deduction
	(D) Jurice Prudential Model	(C) Discovery
		(D) Factual
133.	Zone of Proximal Development is the	
	concept of :	138. Select the odd one out:
	(A) Jerome. S. Bruner	(A) Imitation
	(B) Jean Piaget	(B) Precision
	(C) Howard Gardner	(C) Articulation
	(D) L. Vygotsky	(D) Characterisation
		` '
134.	If a teacher wants to finish a large content	139. A guide for the teacher to organize day-to-
	within a limited time, the most appropriate method to be adopted is:	day class work keeping in mind the long term
	(A) Historical method	goals is :
	(B) Lecture method	√A) Year plan
	(C) Lecture demonstration method	(B) Unit plan
	(D) Biographical method	(C) Lesson plan
	(2) 2108111	(D) Resource unit
135.	'For every action there is an equal and	
	opposite reaction', Which of the following is	140. The thermometers and lenses purchased for
	most appropriate for this statement ?	the Physical Science lab are to be entered
	(A) Law	in:
	(B) Fact	(A) Consumable stock register
	(C) Principle	(B) Permanent stock register
	(D) Generalization	(C) Supply register
		(D) Order register
136.	The anecdotal approach, the biographical	
	approach, the evolutionary approach and	141. Which of the following is not a quality of
	the social approach are the major approaches coming under:	Science teacher ?
	(A) Problem Method	(A) Subject expert
	(B) Scientific Method	(B) Dedicated to excellence

(S) Rigid

Thrives on challenge

examples of the concept. The approach used

В

137. The teacher explains the concept of Inertia

to students. Then he/she asks them to cite

142. Which is the most suitable learning aid to teach solar system? (A) Planetarium (B) Vivarium (C) Museum (D) Model 143. Which of the following is a contribution of Gagne? (A) Scaffolding (B) Advance organizer (C) Hypothetico deductive reasoning (D) Multiple discrimination **144.** Which among the following is the contribution of Bruner? (A) Field Theory (B) Reception Learning (C) Discovery Learning (D) Critical Pedagogy

145. Which of the following does not come under vicarious experience (A) Television

(B) Motion pictures (C) Field trip

(D) Still pictures

146. The effective method for transacting the content Chain reaction is by using :

(A) Lecture method

(B) Activity method

(C) Discovery method

Computer Assisted method

147. Blue print is not needed in:

(A) Unit test

(B) Teacher made Achievement test

(C) Standardised Achievement test

(D) Diagnostic test

148. The test that is used exclusively for predicting expected performance in future programme is:

(A) Diagnostic test

(B) Achievement test

_(C) Prognostic test

(D) Unit test

149. The remedial measures adopted for overcoming the nature and extent of difficulties are to be on the basis of scores obtained in the :

(A) Unit Test

(B) Intelligence test

(€) Diagnostic test

(D) Achievement test

150. After internalizing the concept of levers if a student classifies levers into first order and second order, then the objective achieved

(A) Comprehension

Analysis

Evaluate

(D) Create

- o O o -

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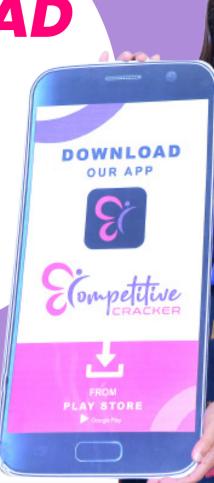
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