

ANSWERS & HINTS for WBJEEM - 2014 SUB : MATHEMATICS

CATEGORY - I

Q.1 to Q.60 carry one mark each, for which only one option is correct. Any wrong answer will lead to deduction of 1/3 mark.

1. Let the equation of an ellipse be $\frac{x^2}{144} + \frac{y^2}{25} = 1$. Then the radius of the circle with centre $(0, \sqrt{2})$ and passing through the foci of the ellipse is

(A) 9

(B) 7

(C) 11

(D) 5

Ans : (C)

Hints : $a^2 = 144$, $b^2 = 25$ $P(0, \sqrt{2})$, $S(ae, 0)$ Radius = PS, $S(\sqrt{119}, 0)$ $PS = 11$

2. If $y = 4x + 3$ is parallel to a tangent to the parabola $y^2 = 4x$, then its distance from the normal parallel to the given line is

(A) $\frac{213}{\sqrt{17}}$ (B) $\frac{219}{\sqrt{17}}$ (C) $\frac{211}{\sqrt{17}}$ (D) $\frac{210}{\sqrt{17}}$

Ans : (B)

Hints : $m = \text{slope of line} = 4$ $y = mx - 2am - am^3$ (Normal) $y = 4x - 216$, Distance = $\frac{219}{\sqrt{17}}$

3. In a ΔABC , $\tan A$ and $\tan B$ are the roots of $pq(x^2 + 1) = r^2x$. Then ΔABC is

(A) a right angled triangle

(B) an acute angled triangle

(C) an obtuse angled triangle

(D) an equilateral triangle

Ans : (A)

Hints : $pqx^2 - r^2x + pq = 0$ $\tan A \tan B = 1$ so $\tan(A+B)$ is undefined $\therefore \angle C = \pi/2$

4. Let the number of elements of the sets A and B be p and q respectively. Then the number of relations from the set A to the set B is

(A) 2^{p+q} (B) 2^{pq} (C) $p + q$ (D) pq

Ans : (B)

Hints : $O(A) = p$ $O(B) = q$; $O(A \times B) = pq$

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out his hand.] Oh, be careful - if ... The Glass Menagerie book script of the play. [SCREEN LEGEND: 'OÙ SONT LES NEIGES.']] There was young Champ Laughlin who later became vice-president of the Delta Planters. Bank. The Glass Menagerie - Tennessee Williams (AMANDA exits through living-room curtains. TOM is left with LAURA. He stares at her stupidly for a moment. Then he crosses to shelf holding glass menagerie. The Glass Menagerie Amanda Wingfield is a faded, tragic remnant of Southern gentility who lives in poverty in a dingy St. Louis apartment with her son, Tom, and her daughter, ... The Glass Menagerie When Amanda convinces Tom to bring home from his workplace a "gentleman caller" for Laura, the illusions that Tom, Amanda, and Laura have each created in order ... The Glass Menagerie Text Scene 1: The Wingfield apartment is in the rear of the building, one of those vast hive-like conglomerations of cellular living-units that flower as. Tennessee Williams - The Glass Menagerie (Scene 3) LEGEND ON SCREEN: 'AFTER THE FIASCO' [TOM speaks from the fire-escape landing.] TOM: After the fiasco at Rubicam's Business College, the idea of getting a ... "The Glass Menagerie," Scene One and Scene Two, by ... 41 Scene 1. 352 The Wingfield apartment is in the rear of the building, one of those vast hive-like conglomerations of cellular living-units that flower as ... Tennessee Williams - The Glass Menagerie (Scene 7) A moment after the curtain rises, the lights in both rooms flicker and go out.] JIM: Hey, there, Mr Light Bulb ! [AMANDA laughs nervously. LEGEND: 'SUSPENSION ... The Glass Menagerie: Acting Edition: Tennessee Williams A new introduction by the editor of The Tennessee Williams Annual Review, Robert Bray, reappraises the play more than half a century after it won the New York ... Basic Stoichiometry PhET Lab.pdf - Name Basic Stoichiometry Post-Lab Homework Exercises 1. Load the "Reactants ... Required Evaluate each of the ideas giving strengths and weaknesses Answer 1. 106. PhET stoichiometry lab.doc - Name: Date: Basic... Basic Stoichiometry Post-Lab Homework Exercises 1. Load the "Reactants ... How does the observed color intensity depend on solution concentration? Q&A · I ran a ... Get Basic Stoichiometry Phet Lab Answer Key Pdf Complete Basic Stoichiometry Phet Lab Answer Key Pdf online with US Legal Forms. Easily fill out PDF blank, edit, and sign them. Save or instantly send your ... Name: Basic Stoichiometry PhET Lab Let's make some ... Apr 15, 2022 — Answer to Solved Name: Basic Stoichiometry PhET Lab Let's make some | Chegg.com. Basic Stoichiometry Phet Lab Answer Key PDF Form Basic Stoichiometry Phet Lab Worksheet Answers. Check out how easy it is to complete and eSign documents online using fillable templates and a powerful ... Basic Stoichiometry Phet Lab Answer Key Pdf Fill Basic Stoichiometry Phet Lab Answer Key Pdf, Edit online. Sign, fax and printable from PC, iPad, tablet or mobile with pdfFiller ☐ Instantly. Try Now! Basic Stoichiometry Basic Stoichiometry PhET Lab. Let's make some sandwiches! Introduction: When we ... Basic Stoichiometry Post-Lab Homework Exercises. 1. Load the "Reactants ... Sandwich Stoichiometry PHET | Assignments Chemistry Download Assignments - Sandwich Stoichiometry PHET This is an assignment for the PHET simulator. This is for chemistry.