

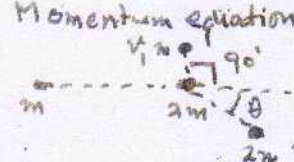
**Rajasthan Public Service Commission, Ajmer**

**Expert Validation of Answer Key**

Name of Examination School Leet Physics Exam 2015

Name of Expert

(with Post & Cont)

Question No. (Series A)	Answer	Remarks/References (Use proper arguments or references in support of your answers)
1	1	<p>Momentum equations give <math>\tan \theta = v_1 \dots (1)</math></p>  <p>K. Energy cons. eq<sup>n</sup> <math>2v_2^2 = 1 - \tan^2 \theta \dots (2)</math></p> <p>(1) &amp; (2) give: <math>\frac{1}{2} = \cos^2 \theta - \sin^2 \theta</math></p> <p>&amp; we know <math>1 = \cos^2 \theta + \sin^2 \theta</math></p> <p><math>\therefore \cos^2 \theta = \frac{3}{4}</math></p> <p><math>\cos \theta = \frac{\sqrt{3}}{2} \therefore \theta = 30^\circ</math></p> <p><math>\frac{3}{2} = 2 \cos^2 \theta</math></p> <p>Ref: Any standard text e.g. Physics by Resnick &amp; Halliday.</p>
5	2	<p>Reference</p> <p>(1) B.S. Aggarwal "Waves &amp; Oscillations" Kedar Nath &amp; Ram Nath, Meerut.</p> <p>(2) सक्सेना, सिंह, रावत "दोषन एवं तरंगे" कॉलेज बुक हाउस, जयपुर</p>
17	3	<p>Reference</p> <p>(1) B.S. Aggarwal "Thermal &amp; Statistical Physics" Kedar Nath &amp; Ram Nath, Meerut.</p> <p>(2) सक्सेना, सिंह, रावत "अणुगतिकीय एवं सांख्यिकीय यांत्रिकी" कॉलेज बुक हाउस</p>

Additional Remarks :-



Rajasthan Public Service Commission, Ajmer

Expert Validation of Answer Key

Name of Examination School Lecturer (Physics), 2015

Name of Expert

(with Post & Contact

Question No. (Series A)	Answer	Remarks/References (Use proper arguments or references in support of your answers)
38	3	<p>Reference</p> <p>① B. L. Subrahmanyam, "Optics" S. Chand &amp; Company, New Delhi</p>
47	0 x delete	<p><u>Already struck</u></p> <p>Particle at rest means <math>v=0</math> so. <math>p=0</math> i.e. no momentum <math>\therefore</math> The language used in both Hindi &amp; English version is not proper i.e. ambiguity prevails. So decision is correct. Question may be deleted.</p>
48	3	<p>References</p> <p>① R. Murugesan "Modern Physics" S. Chand &amp; Company, New Delhi</p> <p>② Ronald Grantsea, William Savin. "Modern Physics" Second edition Scharen's outlines series</p>

Additional Remarks :-

Signature

Date







Rajasthan Public Service Commission, Ajmer

Expert Validation of Answer Key

Name of Examination: School Lecturer Physics 2015 (Edu)

Name of Expert

(with Post & Contact no)

Question No. (Series A)	Answer	Remarks/References (Use proper arguments or references in support of your answers)
Q 112	(1)	Commission's answer is right as Ausubel emphasised meaningful learning rather than rote learning.
Q 117	(2)	Commission's answer is right as Coleman gave the concept of emotional intelligence in 1995 and Salovey and Mayer gave the concept in 1980.
Q 119	(1)	Commission's answer is right. The basic component of Piaget's theory are (1) Schemas (building blocks of knowledge) (2) Adaptation (equilibration, assimilation) etc (3) Stages of Development. Schemas is not the answer as suggested by the candidate.
Q 126	(4)	Commission's answer is right as guidance is like support and not to take the decision for others.
Q 128	-	based on knowledge of computer.
Q 133	(2)	Commission's answer is right. It can be verified from net information.

Contd.:

Additional Remarks :-

Signature

Date







Rajasthan Public Service Commission, Ajmer

Expert Validation of Answer Key

Name of Examinatic - School Lectt Physics 2015 (Edy.)

Name of Expert

(with Post & Contact no)

Question No. (Series A)	Answer	Remarks/References (Use proper arguments or references in support of your answers)
137	<p>प्रश्न के लिए दिए गए सभी विकल्प गलत हैं। अतः सिरस्त वर्ण की अनुशांसा की जाती है। शिक्षा सनोविज्ञान प्रा शस पी गुप्ता, डा. अलका गुप्ता - 2012 शाखा पुस्तक भवन Page : 48, 53</p>	<p>प्रश्न के लिए दिए गए सभी विकल्प गलत हैं। अतः सिरस्त वर्ण की अनुशांसा की जाती है। शिक्षा सनोविज्ञान प्रा शस पी गुप्ता, डा. अलका गुप्ता - 2012 शाखा पुस्तक भवन Page : 48, 53</p>

Additional Remarks :-

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Date



Rajasthan Public Service Commission, Ajmer

Expert Validation of Answer Key

Name of Examination ..... Lecturer - Physics (School Edu.) .....

Name of Expert 1

(with Post & Contact no.)

Question No. (Series A)	Answer	Remarks/References (Use proper arguments or references in support of your answers)
126	4	<p>सही उत्तर 4 है।</p> <p>को एक जो-ने अज्ञात य विज्ञान व विशेषज्ञ प्रश्न प्रश्नों व अधिकांश द्वारा विज्ञान आदि के व्यक्तियों स्थापना करने प्रदान करना। यदि वह अपने जीवन की विज्ञान को अज्ञान के रूप में, निजी दृष्टिकोण विकसित कर लेते अपने आप विज्ञान में ही नया ज्ञान प्रदान कर सकते हैं।</p> <p>Ref. शिक्षा नवाचार - एन. के. मंगल 2015 Pg. 632 IIT Learning Pvt. Ltd. Delhi.</p>
128	4	<p>सही उत्तर - 4 है।</p> <p>motion picture (चलचित्र) Hardware technology के अज्ञान आरंभ के रूप में प्रारंभ है।</p> <p>Ref. शिक्षा नवाचार - एन. के. मंगल मिशन प्रेस</p> <p>(2) शिक्षा नवाचार - एन. के. मंगल अंक 9.6-8 (सितंबर 2000) शिक्षा नवाचार अकादमी मुंबई</p>
133	2	<p>सही उत्तर 2 है।</p> <p>Biological sci. Eng. model is developed on the findings of BSCS that produced curricular &amp; instructional material in America. The BSCS was developed scientific value and sci. skill among learners and was designed on the basis of the work of Joseph J. Schwab.</p> <p>Ref. Net. - Biological sci. Eng. model. Bookman Internal J. of Acc. Eco &amp; Bus. Ad Vol. 1-2 Nov, 2012 www.bookmanjournal.com.</p>

Additional Remarks :-

Signature

Date



Rajasthan Public Service Commission, Ajmer

Expert Validation of Answer Key

Name of Examination ..... School Test Phys. Spec. 2015

Name of Expert 1 [Redacted]  
(with Post & Contact no.)

Question No. (Series A)	Answer	Remarks/References (Use proper arguments or references in support of your answers)
107	3	Ref: 1. Nuclear Physics - D. C. Tayal. 2. Nuclear Physics - Kaplan.
144	2	Ref: H.C. Verma "Concepts of Physics" Volume - 1
147	4	Ref: H.C. Verma "Concepts of Physics" Volume - 1

Additional Remarks :-

Signature

Date

[Redacted Signature and Date]



## Rajasthan Public Service Commission, Ajmer

## Expert Validation of Answer Key

Name of Examination School test. PHYSICS Exam 2015

Question No. (Series A)	Answer	Remarks/References (Use proper arguments or references in support of your answers)
55	1	Reference ① B.S. Agarwal, "Waves & Oscillation" Keelavath & Ramath, Meerut
67	1	Reference ① सक्सेना, सिंह, रावत, "उष्मागतिकी एवं सांख्यिकीय ऑप्टिक्स" कॉलेज बुक हाउस, जयपुर
72	1	Reference ① सक्सेना, सिंह, रावत, "होस प्रवस्था इलेक्ट्रॉनिक्स" कॉलेज बुक हाउस, जयपुर

Additional Remarks :-

Signature



## Rajasthan Public Service Commission, Ajmer

## Expert Validation of Answer Key

Name of Examination ..... School Lect. Physics Exam 2015 .....

(Series A)		Remarks/References (Use proper arguments or references in support of your answers)
74	4	References ① सनवसेना, सिंह, रावत "बेस जिवरथा इलेक्ट्रॉनिक्स" कॉलेज बुक हाउस, जयपुर
76	1	References ① B.L. Theraja, "Basic electronics" S. Chand & Company, New Delhi
82	3	References ① B.L. Subrahmanyam, "Optics" S. Chand & Company, New Delhi

Additional Remarks :-



Rajasthan Public Service Commission, Ajmer

Expert Validation of Answer Key

Name of Examination ..... Subject: Physics Exams 2015

Question No. (Series A)	Answer	(Use proper arguments or references in support of your answers)
84	2	<p>Reference</p> <p>① सवसेना, सिंह, शर्मा "प्रकाशिकी" कॉलेज बुक हाउस, जयपुर</p> <p>② B.L. Subrahmanyam "Optics" S. Chand &amp; Company, New Delhi</p>
101	4.	<p>Correct eqn <math>P = ap + bq</math>; <math>Q = cp + dq</math></p> <p>Ref(1) Mathematical Physics by Gupta &amp; Kumar Meerut Pub.</p> <p>Ref. (2) Classical Mechanics - Goldstein.</p>
103	1	<p>Reference</p> <p>① Kakani, Hemrajani "Advanced Quantum Mechanics" S Chand &amp; Company, New Delhi.</p>
106.	2.	<p>Ref: 1. College Physics by Alonso &amp; Finn Vol. III.</p> <p>2. Quantum Mechanics: Nourdine Jeitille Wiley Publ</p> <p>3. Quantum Mechanics B.Sc. Agri. P.H.T</p>

Additional Remarks :-