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No, AIBSNLEA/CHQ/Director(HR)/2011

Dated 04.07.2011

To  
Shri A.K. Garg  
Director (HR) BSNL  
New Delhi,

**Sub:** Discrepancies are noted in the answer key of LDCE held on 18.6.2011 for the promotion from JTO(C/E/Arch) to SDE(C/E/Arch) held on 18.06.2011 & 18.06.2011-Reg.

**Ref:** Provisional answer keys uploaded on intranet on 20.06.2011.

Sir,

With reference to the above subject, some discrepancies observed in the provisional answer keys uploaded in the intranet.

<b>Question No.</b>	<b>Questions (In Paper I)</b>	<b>As per the provisional Answer key</b>	<b>Correct answer as per Text book/ IS code/ CPWD specification</b>
9	Every material obeys Hook's law within its	(C) Limit of proportionately	As per standard text books, Hook's law is only <b>within its Elastic limit. i.e.</b> the right answer is option <b>(A)</b> (Eg. Page 12 of Mechanics of structures by Junarker)
66	Drops are provided in flat slabs to resist	(C) Shear force	Flat slab is <b>not included in syllabus.</b> Hence this question may not be considered for valuation and so the cut-off mark may be modified accordingly.
68	Cement bags shall be stacked keeping following minimum clear distance from walls	(A) 450mm	As per page 23 of CPWD Specifications(vol I) 2009, the clear distance between the walls and cement bags is <b>600mm</b> . So the right answer is <b>not available</b> in the choices in the question paper. Hence this question may not be considered for valuation and so the cut-off mark may be modified accordingly.
84	The desirable mixing time of concrete in concrete mixer shall be	(C) 1.5 to 2.0 minutes.	As per clause 10.3.1(page 25) of IS 456, the mixing time shall <b>be at least is 2 minutes</b> . So the answer may be 2 to 3 minutes

**JTO(C) TO SDE (C) Part II (Paper code- 512)**

Q No	Answer as per Answer Key	Correct Answer	Remarks
26	B)	C)	<p>The correct answer of this question is "C" as a Horizontal line &amp; Level line are different with reference to levelling in the context of surveying, and the option C of that question say that "A Horizontal line and Level line are one and the same thing" is not true. Please refer any of Surveying book, according to Dr. B. C. Punamia's Book of Surveying Volume.I latest edition of 2009 year vide page no.195 &amp; 196(Copy enclosed for your ready reference) it is clearly define LEVEL LINE as: A level line is a line lying in a level surface and HORIZONTAL LINE as It is straight line tangential to the the level line at a point. Hence the Level line and Horizontal line is not one neither same thing, this statement is not true. According to Surveying &amp; Levelling Part-I book of T. P. Kanetkar &amp; S. V. Kulkarni, vide page no.363 (copy enclosed for your ready reference) the option of Q.No.26 A,B.&amp; D are correct only option C is not true. While considering the above facts the option C is the correct answer of Q.No. 26.</p>
28	D)	C)	<p>The correct answer of this question is "C" as "The line of collimation and the line of sight are not same" this is the false, In reference of the level instrument and the line of collimation. The option D of provisional answer key is wrong. Please refer any of Surveying book, according to Dr. B. C. Punamia's Book of Surveying Volume.I latest edition of 2009 year vide page no.204(copy enclosed for your ready reference), it is clearly define that" a line which passes through the optical centre of the objective and the intersection of the cross hairs is called the line of sight or line of collimation and are the same. The option of Q.No.28 A &amp; B are true only option C is false, and the answer of provision answer keys D as None of the above is true is not the correct answer. While considering the above facts the option C is the correct answer of Q.No. 28.</p>
30	C)	A)	<p>The correct answer of this question is "A" as "The GTS refers to Great Trigonometrical Survey" is the correct with reference to the GTS bench marks, but the Q.No.30 say which of the following is false, with reference to the GTS bench marks is are option "A" i.e. GTS refers to General trigonometrical Survey is the false statement with reference to GTS bench marks. Please refer any of Surveying book, According to Surveying &amp; Levelling Part-I book of T.P.Kanetkar &amp; S.V.Kulkarni vide page no.382 and also latest Google search (copy enclosed for ready reference) it is clearly defined that there are four kind of bench marks viz. GTS means Great Trigonometrical Surveys and accordingly the option of Q.No.30 B,C &amp; D are true, hence only option A is false. While considering the above facts the option A is the correct answer of Q.No. 30</p>

<b>Discrepancies in the Answer Keys of LDCE for JTO (E) to SDE (E).</b>				
5	C) 31 <sup>st</sup> January	D) 31 <sup>st</sup> December	In the form 4 of BSNL CDA Rules, it is mentioned that the details for the previous year is to be filled and submitted as on 1 <sup>st</sup> January every year.	CDA Rules Form 4
22	A) Either less than 230 mm or more than 760 mm	A) Either less than 230 mm or more than 760 mm & D) Either less than 200 mm or more than 900 mm	IE rules 1956, the specified clearance is less than 200 mm or more than 750 mm  All answers are wrong. As options A and D are close to the right answer, credit should be given to both A and D choices	IE Rules 1956; Rule 51
28	C)	B)	<a href="#">Supporting documents enclosed</a>	
44	D) 25	C) 15	15 Kmph is specified as the minimum wind speed required for wind power generation, in “Energy performance Assessment for equipment and Utility system Book – 4, Page 152 of JTO (E) Induction Training study material issued from RTTC Nagpur	1) Energy performance Assessment for equipment and Utility system Book – 4, Page 152. Application of non-conventional & Renewable energy sources (Chapter – 12) SH: Wind Potential 2) JTO (E) Induction Training study material issued from RTTC Nagpur on Energy conservation techniques & New trends, page-124, SH: Wind Potential.
58	A) 0.9 lag to 0.98 lead.	All answers are wrong	It is prescribed vide CGM T&D circle, Jabalpur’s Engineering Instruction that pf should be better than 0.98 for rated load and better than 0.95 for all other loads.	Engineering Instruction No: SMPS/D-004 dtd 19.03.2005 approved by CGM T&D circle, Jabalpur, Point 2.1
87	D)	C)	<a href="#">Supporting documents enclosed</a>	
92	C) Half yearly	A) Yearly	The recommended frequency for oil testing of transformer is specified as “Yearly” in maintenance schedule – Transformers, in Guidelines for maintenance of Electromechanical services, Govt of India, Dept of Telecommunications.	Guidelines for maintenance of Electromechanical services, Govt of India, Ministry of Communications, Dept of Telecommunications 1999 – Maintenance Schedule – Transformer (Indoor/Outdoor upto 2000 KVA) – Page 11, Form – 7B <a href="#">(Supporting documents attached)</a>

93	D) Monthly	B) six monthly	Fire drill is not included in the list of maintenance schedule to be done monthly, neither in the in Guidelines for maintenance of Electromechanical services, Govt of India, Dept of Telecommunications nor in the Fire protection manual.	1) Fire protection manual 2) Guidelines for maintenance of Electromechanical services, Govt of India, Ministry of Communications, Dept of Telecommunications 1999 – Maintenance Schedule – Fire alarm system, Page 16, Form – 9B
94	D) Every third day for about 10 minutes	All answers are wrong	In Guidelines for maintenance of Electromechanical services, Govt of India, Dept of Telecommunications-1999, it is mentioned that engine should be run for 15 minutes every day to ensure proper working of the engine.	Guidelines for maintenance of Electromechanical services, Govt of India, Ministry of Communications, Dept of Telecommunications 1999 – Maintenance Schedule –EA Set – Page , Form – 23A ( <a href="#">Supporting documents attached</a> )
97	D) Oil test	B) Polarity test of switch	All tests given in the options are to be done before commissioning. Oil test has to be definitely done before commissioning. Polarity test of switch is to be done after charging the system. Hence this option is the one closer to the answer.	1) CPWD Specifications 2005 2) IE rules 1956

**JTO(E) TO SDE (E) Part II (Paper code- 532)**

Q No	Answer as per Answer Key	Correct Answer	Remarks	Reference
55	A) Naturally Aspirated Engine	C) Turbo Charged After cooled Engine	In naturally aspirated engine the load on the exhaust and hence the back pressure is minimum. In Turbo Charged After cooled Engine the turbine load in the exhaust line increases the backpressure.	
62	C) Straight inclined sloping downward to the right	D) Curved	Dew-point temperature line is the curved boundary on the left side of the psychrometric chart	1) ) JTO (E) Induction Training study material issued from RTTC Nagpur on Air Conditioning- Psychrometric Chart – Page – 23 2) Psychrometric Chart. ( <a href="#">Supporting documents attached</a> )

These discrepancies in the answer key may be considered and may be modified. Also the cut-off mark may be reduced accordingly. The minimum mark (cut-off mark) for both paper I & II may be changed to 90 out of 200 (45%) instead of 45 out of 100 (45%) for each paper as both the paper contains Civil Engineering subjects only.

We would therefore request you to kindly rectify the errors and announce the result accordingly.

With kind regards,

Yours Sincerely

-sd-

**(Prahlad Rai)**

**General Secretary**

Copy to :- Sh. R.K. Goyal, GM(Rectt.), BSNL CO, New Delhi-110001