



अंडमान तथा निकोबार प्रशासन
ANDAMAN & NICOBAR ADMINISTRATION
डॉ. भीमराव अंबेडकर प्रौद्योगिकी संस्थान
Dr. B.R. AMBEDKAR INSTITUTE OF TECHNOLOGY
(NAAC ACCREDITED)

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ANDAMAN & NICOBAR ISLANDS



Confidential
Most Urgent

Dated: 21st October 2019

F.No. 6-2/PA/BRAIT/Exams (APWD)2019/2484

To

The Chief Engineer
APWD, Nirman Bhawan
Port Blair

Sub : Forwarding Results with details of Claims and Objections --reg

Sir

This has the reference to your letter no. 9-98/CE/PW/ES-II/2019(Vol-III)/6263 dated 18/10/2019 along with copy of claims received from 1) Avinash Das, 2) A Nagarajan, 3) joint representation of Ms. Safrina Sadique, Miss Sneha, Miss.Razia Begum and Ms.M.D.Nirmala.

In this regard it is to inform you that question wise clarification for Sn. 1 & 2 is along with the claims and objections sent to controller of Exam vide our letter dated.16th October 2019. It may be seen that most of the claims have been already replied in our earlier letter.

As regard the joint representation referred above in SN 3 , we have not received the details of the questions referred in the representation.

It is to mention that despite APWD bringing out Press note that no claims and objections shall be entertained after 1st August 2019, the claims and objections are still being entertained which is not in line with the published Notice.


Contd.

It has also been observed that in some cases the candidates have stated that few questions are beyond syllabus. It is pertinent to mention that the syllabus in such selection tests are broadly indicative in nature and cannot be taken as complete portion with regard to the questions asked.

It is requested that no further claims may be entertained so that unproductive time on such activities are minimized. It is to confirm that the answer given by us vide letter 6-2/PA/BRAIT/Exams (APWD)2019/2218 dated 25/09/2019 remains unchanged

Yours faithfully

Encl : As Above


(SRAJI)
Exam Coordinator

Copy to:-

The Secy-cum-Commissioner, APWD for kind information please.

(SRAJI)
Exam Coordinator

CLAIMS & OBJECTIONS AND JUSTIFICATION FOR ANSWER IN FINAL KEY

S. No.	Name of the candidate, date of representation	Claims/Objections raised	Answer as per Final Key	Remarks
1	Dilwar Singh, 25/9/2019	Q.no 6 was incomplete and the options of that question were unclearly given. Q.no 6 has always been controversial in the past in many competitive examinations. Thus in my view q.no.6 can either have both "B" and "C" options correct. Q.no.6 should not be considered for evaluation	B	The answer has been verified from IS Code 1077-1992. Clause 6.1.1 Page no.1
	58	Q.no 58 that both "A" and "D" options are correct answers which if I am not wrong violates the very basic guidelines of the MCQ types exams given to the student prior to the exam which were i) only one option is correct ii) Mark only one option iii) There is a negative marking of 0.5 marks in each question iv) Marking two options for the same questions will fetch students negative marking Keeping every aspect I think Q.58 should not be considered for evaluation	A & D	The instruction sheet carried the statement as mentioned by the candidate. This has been done to facilitate proper evaluation by OMR sheet since shading two options may not enable optical sensor to read properly.

JE (Civil)
Examination

S. No.	Name of the candidate, date of representation	Question Number	Claims/Objections raised	Answer as per Final Key	Remarks
2	L S Senthil Velu 23/9/2019 J E (Civil) Examination	13 & 93	Q.13 and 93 were cancelled by the department mentioning that none of the above in the answer key, but such option were not given in the question paper. Therefore the question numbers 13 and 93 will not be considered for evaluation which is incorrect and objectionable. For q.no 13 and 93, I am submitting the document of Civil Engineer for all types of Examination and Interview prepared by Shri R Agor, Lecturer in Civil Engineering, Retired Technical Education, Delhi published by Khanna Publication in the 32 nd editions 2017, 3 rd print 2018. The correct question and answers of both questions is placed at Annexure - II	None of the Above	The cancellation of two questions is an administrative decision and it will have no affect to any of the candidate since it is implemented across the board.
		94 &		C	Ref: "Physics for Technology", Second Edition By Daniel H. Nichols Pg. no.54.
		99	For question no 94 and 99 Answer key uploaded by the department earlier, I have objected the answer of the answer key through my email dated 30/07/2019 (Annexure-III) which have not considered by the department. In this context I am enclosing the answer of the above said publisher Q.94. For Q.99 the source copy from Internet is enclosed for kind ready reference.	D	According to ICAO there are only two bases. Ref: "Airport Engineering" by S.C. Rangwala Pg. no. 40
3	K. Jaya Bharathi 25/09/2019 J E (Civil) Examination	Q.86	In question paper, question number No 14 is incomplete, it is mentioned as "Minimum depth of Ballast prescribed for BG Trunk lines of Indian" instead of "Minimum depth of Ballast prescribed for BG Trunk lines of Indian Railways. Whereas Railways were not included in syllabus (copy enclosed) for JE Civil Engineering Exam conducted on 21/7/2019. Therefore Q.86. Shall be removed from the question paper along with other relevant questions.	C	Ref: "Railway Engineering" by Satish Chandra, M. M. Agarwal Pg. no.145

S. No.	Name of the candidate; date of representation	Question Number	Claims/Objections raised	Answer as per Final Key	Remarks
		Q 4	In question no 4 Gneiss is a metamorphic rock but obtained from Igneous rocks, therefore both options are correct, Option A and option B	B	Gneiss is obtained from metamorphism of Granite hence it is a metamorphic rock Ref- "A Geology for Engineers" by FGH Blyth and MHD Freitas PN 140
		Q.60	In q.no 60 for determination of allowable stress in axial compression, Indian Standard Institution has adopted a) Euler's formula, b) Rankine's Formula c) Engesser Formula d) Secant Formula As per IS Code 800 -1962 Secant formula is used (Copy enclosed) because we get modulus of elasticity upto proportionality limit. So upto lower yield point we use Secant Modulus or Elasticity. Also Euler's formula is valid upto 80 and far more than that we use Secant formula. So option D is correct and not option A	A	As per IS Code Secant Formula was used for Column prior to 1984. Present code Formula is closer to Perry Robertson Formula which is closer to Modified Euler's Formula. Ref: "Strength of Materials" by SS Bhavikatti pg.389 & "Structural Mechanics" -Column Behavior by Dr. Colin Caprani. Page no 34-35
		Q94	An aircraft is flying in an atmosphere of 30 degree celcius with a speed of 1260 Km/h. It is known as a) Sub Sonic, b) Sonic, c) Supersonic d) Mach number. If sound speed is 1260 Km/h on 30 degree C, it is sonic. More than that is super sonic so correct option is B not C	C	The reference is already mentioned above against Q.94
		Q99	In question no 99 Airports can be classified on how many basis a) 5, b) 4, c) 3 and d) 2 If in the question they mentioned as per ICAO classification it is classified into Two which is runway length and on basis of wingspan but generally Airport is classified into four on the basis of takeoff, and landing, geometric design, based on aircraft approach speed and function as FAA. Hence both the options B and D are correct	D	The reference is already mentioned above against Q.99
4	Mike Tyson 27/09/2019				APWD may reply suitably since the entire procedure was carried out under the supervision of Observers duly appointed by A&N Administration

S. No.	Name of the candidate, date of representation	Question Number	Claims/Objections raised	Answer as per Final Key	Remarks
5	Ch Sudhir 25/09/2019 <i>JE (E&M)</i> <i>Examination</i>	Q18	<p>In a low power factor watt meter the pressure coil is connected</p> <p>a) To the supply side of the current coil b) To the load side of the current coil c) In any of the two meters at connection d) To the any phase and neutral</p> <p>Expected answer is "B"</p>	A	Normally in a low power factor watt meter the pressure coil is connected to the supply side with the compensation for Pressure Coil current Ref : "Electrical Measurements & Measuring Instruments " by RK Rajput, PN 298, 299
		Q18	<p>For economy in generation power</p> <p>a) Diversity factor should be high b) Load factor should be high c) Plant utilisation factor should be high d) Load factor and diversity factor should be low</p> <p>Expected answer is "A", "B" & "C"</p>	A&B	Plant utilisation factor is the ratio of kWh generated to the product of plant capacity and the number of hours for which the plant was in operation whereas Load Factor is the ratio of average load to the Maximum demand. And Diversity factor is the ratio of the sum of individual maximum demand to the maximum demand on power station. Hence Load Factor and Diversity factor is directly affecting the economy of power generation. Ref : "Principles of Power System" by VK Mehta, PN 54 & 55
		Q30	<p>The oxide coated cathodes can be used for voltages upto</p> <p>a) 1000V b) 3000V c) 4000v d) 10,000 V</p> <p>Expected answer is "A"</p>	None of the option	The cancellation of two questions is an administrative decision and it will have no affect to any of the candidate since it is implemented across the board.
		Q31	<p>In the symbols of P-N-P transistors and N-P-N transistor the arrow on the emitter shows the direction of flow of</p> <p>a) Electrons, electrons b) Holes, holes c) Holes, electrons d) Electrons, holes</p> <p>Expected answer is "B"</p>	C	Ref : "Electrical and Electronic Technology" by Hughes, PN 435

Note : The request of Prosenjit Biswas to re-evaluate the OMR is an administrative decision and the same can be carried out by the department manually keeping final key as reference

S. No.	Name of the candidate, date of representation	Question Number	Claims/Objections raised	Answer as per Final Key	Remarks
Claims Received on 19/10/2019					
6	Avinash Das 07/10/2019 <i>JE (Civil)</i> <i>Examined</i>	Q.No.55	The ratio of bond stress for HYSD bars to that of plain bars A)0.714 B)0.9 C)1.4 D)1.8 Final Official Answer Key: C My Chosen Answer & Justification : D (Answer Should be 1.6 (As per IS 456 2000) but 1.4 and 1.8 are equally close options; For deformed bars conforming to IS 456, values shall be increased by 60%. For bars in compression, values of bond stress for bars in tension shall be increased by 25%)	C&D	Reference "IS 456:2000" clause 26.2.1.1, page 43. Bond stress should be increased 60% for deformed bars. Both C and D options are correct
		Q.No.83	According to the recommendations of Nagpur Conference, the width formation of an ideal National Highway in hard rock cutting, is A) 8.9 m B) 7.9 m C) 6.9 m D) 6.5 m Final Official Answer Key: None of the above (Question Dropped) My Chosen Answer & Justification : B (2 x 3.60(width of two lanes) + 0.7(separation width) = 7.9 m(width of highway). Exact question & answer appeared in SSC-JE Civil Engineering 2nd March 2017 Evening Session)	None of above	According to the number of lanes the width of formation of an ideal National Highway will vary Ref : NPTEL https://nptel.ac.in/courses/105/101/105101087 Pg. no 6
		Q.No.60	For determination of allowable stress in axial compression, Indian Standard Institution has adopted a) Euler's formula, b) Rankine's Formula c) Engesser Formula d) Secant Formula Final Official Answer Key: A My Chosen Answer & Justification : D (As per IS 800 2007, design compressive stress of axially loaded compression member shall be calculated using "perry Robertson formula"(not provided in the option). IS 800:1984 recommends the use of "Merchant Rankine Formula". IS 800 1962 recommends the use of "Secant Formula".) Same question and answer appeared in SSC-JE Civil	A	The reference is already mentioned above against Q.60, page no. 3

S. No.	Name of the candidate, date of representation	Question Number	Claims/Objections raised	Answer as per Final Key	Remarks
	2015 & 29 th January 2017 Evening Session.	Q.No.04	<p>Guess is obtained from A)Igneous Rocks B)Metamorphic rocks C) Sedimentary rocks D)Sedimentary-metamorphic rocks Final Official Answer Key: B My Chosen Answer & Justification : A (Since Genesis is formed after metamorphism of Granite which is an igneous rock)</p>	B	The reference is already mentioned above against Q.04 Pg. no 3
		Q.No.65	<p>Manometer is used to measure A)pressure in pipes, channels etc. B)Atmospheric pressure C)Very low pressure D)Difference of pressure between low joints Final Official Answer Key: A My Chosen Answer & Justification : D (Simple or Differential Manometer not mentioned in question. Option D is correct for differential manometer & option A for Simple Manometer)</p>	A	In general manometer refers to simple manometer which is in turn used to measure pressure a point. Ref: "Fluid Mechanics and Hydraulic Machines" by Dr. R. K. Bansal Pg.no.:43
		Q.No.17	<p>Transport of concrete by pumps, is done for a distance of A) 100m B) 200m C) 300m D) 400m Final Official Answer Key: D My Chosen Answer & Justification: A (Direction of transport whether horizontal (80m) or vertical (400m) is not mentioned in question. Concrete can be pumped up to a horizontal distance of 400m and 80m vertically having slump value of 50mm to 100mm)</p>	D	Generally distance is a horizontal parameter, so option D-400m is the appropriate answer. Ref: Concrete Technology: Theory and Practice by M. S. Shetty Pg. no 253
		Q.No.73	<p>The maximum depth of sedimentation tanks is limited to A)2m B)4m C)5m D)6m Final Official Answer Key: D My Chosen Answer & Justification: B (Same question asked in recruitment Examination under Limited Departmental Competitive Examination (LDCI) for the post of Junior Engineer (APWI) with maximum depth of</p>	D	Reference: "Water Supply and Sanitary Engineering" by G.S. Birdie and J.S. Birdie Pg.no. 155

S. No.	Name of the candidate, date of representation	Question Number	Claims/Objections raised	Answer as per Final Key	Remarks
7	K Nagarajan	Q.No.75	<p>sedimentation tank mentioned as 3.5m (Question No.78))</p> <p>High COD to BOD ratio of an organic pollutant represents</p> <p>A) High biodegradability of the pollutant B) Low biodegradability of the pollutant C) Presence of free oxygen foe aerobic decomposition D) Presence of toxic material in the pollutant</p> <p>Final Official Answer Key: B</p> <p>Justification: As mentioned in the press note (Dated 18th September 2019), question No. 75 & 77 was repeated due to "Data Entry Error", One of these questions should have been dropped (as it was an error) since the same question has been used twice for merit evaluation</p>	B	Ref: "Water Supply and Sanitary Engineering" by G.S. Birdie and J.S.Birdie Pg. no: 409
		Q.No.86	<p>Minimum depth of ballast prescribed of BG trunk lines of India</p> <p>A) 20cm B) 15cm C) 25cm D) 30cm</p> <p>Final Official Answer Key: C</p> <p>Justification: Railway Engineering not mentioned in syllabus along with question being incomplete since size of sleeper and sleeper spacing has not been provided. Sleeper Spacing = width of sleeper + 2 x depth of ballast</p>	C	Ref: "Railway Engineering" by Satish Chandra, M. M. Agarwal Pg. no:145
7	K Nagarajan	Q. No.49	<p>The locus of reaction of two hinged semi-circular arch is</p> <p>A) Straight Line B)Parabola C) Circle D) Hyperbola</p> <p>Final Official Answer Key: A</p> <p>Justification: Arches not mentioned in syllabus</p>	A	Ref: Structural Analysis by T.S Thandavamoorthy, Pg.1038
		Q.08	<p>In a low power factor watt meter the pressure coil is connected</p> <p>e) To the supply side of the current coil f) To the load side of the current coil g) In any of the two meters at connection</p>	A	The reference is already mentioned above against Q.08 Pg. no 4

J E (EPM)
 Examinations

S. No.	Name of the candidate, date of representation	Question Number	Claims/Objections raised	Answer as per Final Key	Remarks
		Q18	<p>h) To the any phase and neutral Expected answer is "jg"</p> <p>For economy in generation power e) Diversity factor should be high f) Load factor should be high g) Plant utilisation factor should be high h) Load factor and diversity factor should be low</p>	A&B	The reference is already mentioned above against Q.18 Pg. no 4
		Q10	<p>The oxide coated cathodes can be used for voltages upto e) 1000V f) 3000V g) 4000V h) 10,000 V</p> <p>Expected answer is "A"</p>	None of the option	The reference is already mentioned above against Q.30 Pg. no 4
		Q31	<p>In the symbols of P-N-P transistor and N-P-N transistor the arrow on the emitter shows the direction of flow of c) Electrons, electrons d) Holes, holes e) Holes, electrons h) Electrons, holes</p> <p>Expected answer is "jg"</p>	C	The reference is already mentioned above against Q.31 Pg. no 4

Note : The syllabus for exam for the selection of JF was broadly indicative.