

বাংলাদেশ পানি উন্নয়ন বোর্ড

BANGLADESH WATER DEVELOPMENT BOARD

পরিচালকের কার্যালয়
কর্মচারী উন্নয়ন পরিদপ্তর, বাপাউবো
রহমান চেম্বার (১০ম তলা)
১২-১৩ মতিঝিল বা/এ, ঢাকা-১০০০
ফোনঃ ৯৫৮৮৪৫৮, ৯৫৫০৯৩৭ (ফ্যাক্স)।
ই-মেইলঃ dir.staff.bwdb@gmail.com



www.bwdb.gov.bd

Office of the Director
Directorate of Staff Development.
Rahman Chamber (9th Floor),
12-13 Motijheel C/A, Dhaka -1000.
Phone: 9588458, 9550937 (Fax).
E-mail : dir.staff.bwdb@gmail.com

স্মারক নং-৪১৮-পাউবো(কউ)/ডি-৫(৮ম খন্ড)/২০১৮

তারিখঃ ২৩ শ্রাবণ ১৪২৫বঃ
০৭-০৮-২০১৮ খ্রীঃ

‘দপ্তরাদেশ’

বাংলাদেশ পানি উন্নয়ন বোর্ডের বিভিন্ন ক্যাডার/শ্রেণীগুচ্ছের নবম খণ্ডে কর্মরত কর্মকর্তাগণের ৫৮তম বিভাগীয় পরীক্ষা আগামী ০১-০৯-২০১৮ এবং ০২-০৯-২০১৮ তারিখে অনুষ্ঠিত হবে। উক্ত বিভাগীয় পরীক্ষার সিলেবাস (Syllabus) সংশ্লিষ্ট সকলের অবগতি ও প্রয়োজনীয় ব্যবস্থা গ্রহণের জন্য এতদ্বারা জারী করা হলো। প্রতি ক্যাডার/শ্রেণীগুচ্ছের জন্য সিলেবাসের প্রযোজ্য অংশ অত্রসাথ সংযুক্ত করা হলো।

০২। মহাপরিচালক মহোদয়ের অনুমোদনক্রমে এ আদেশ জারী করা হলো।


(মোঃ আসাদুজ্জামান)
পরিচালক

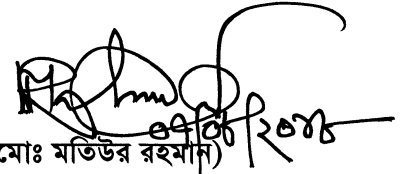
কর্মচারী উন্নয়ন পরিদপ্তর, বাপাউবো, ঢাকা।

স্মারক নং-৪১৮/১(৫০)-পাউবো(কউ)/ডি-৫(৮ম খন্ড)/২০১৮

তারিখঃ ২৩ শ্রাবণ ১৪২৫বঃ
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সদয় অবগতির/অবগতি ও প্রয়োজনীয় ব্যবস্থা গ্রহণের জন্য অনুলিপি প্রেরণ করা হলোঃ

- ১। প্রধান প্রকৌশলী/অতিরিক্ত প্রধান প্রকৌশলী/প্রধান... বাপাউবো..
- ২। তত্ত্বাবধায়ক প্রকৌশলী/প্রকল্প পরিচালক/পরিচালক/সচিব/অধ্যক্ষ... বাপাউবো..
- ৩। সি এস ও টু মহাপরিচালক, বাপাউবো, ঢাকা।
- ৪। নির্বাহী প্রকৌশলী ... বাপাউবো..
- ৫। সিস্টেম এনালিস্ট, আইসিটি সেল, বাপাউবো, ঢাকা (ওয়েব সাইটে প্রকাশের জন্য অনুরোধ করা হলো)।
- ৬। উপ-পরিচালক, ঢাকা আঞ্চলিক হিসাব কেন্দ্র, বাপাউবো, ঢাকা।
- ৭। ব্যক্তিগত সহকারী, অতিঃ মহাপরিচালক (প্রশাসন/পরিকল্পনা/অর্থ/পশ্চিম রিজিঃ/পূর্ব রিজিঃ), বাপাউবো, ঢাকা।
- ৮। মাস্টার কপি/নথির কপি।
- ৯। জনাব.....।


(মোঃ মতিউর রহমান)

নির্বাহী প্রকৌশলী (নিঃ ও পঃ) (অঃদাঃ)
কর্মচারী উন্নয়ন পরিদপ্তর, বাপাউবো, ঢাকা।

৫৮তম বিভাগীয় পরীক্ষা/২০১৮ এর সিলেবাস (Syllabus) এর সূচীপত্র/সার-সংক্ষেপঃ

ক্রঃ নং	ক্যাডার/পদের নাম	পরীক্ষার নাম		পৃষ্ঠা নং	মন্তব্য
		পার্ট	পেপার		
১।	সহকারী প্রকৌশলী (পুর)	পার্ট-১	-	পৃষ্ঠা-১	মৌখিক পরীক্ষা
		পার্ট-২	পেপার-১	পৃষ্ঠা-৩	লিখিত পরীক্ষা (Open Book)
			পেপার-২	পৃষ্ঠা-৪	লিখিত পরীক্ষা (Open Book)
২।	সহকারী প্রকৌশলী (যান্ত্রিক/বিদ্যুৎ)	পার্ট-১	-	পৃষ্ঠা-২	মৌখিক পরীক্ষা
		পার্ট-২	পেপার-১	পৃষ্ঠা-৩	লিখিত পরীক্ষা (Open Book)
			পেপার-২	পৃষ্ঠা-৪	লিখিত পরীক্ষা (Open Book)
৩।	ভূ-তত্ত্ববিদ	পার্ট-১	-	পৃষ্ঠা ৫ হতে ৮	লিখিত পরীক্ষা (Close Book)
		পার্ট-২	-	পৃষ্ঠা-৯	লিখিত পরীক্ষা (Open Book)
৪।	গবেষণা কর্মকর্তা (পরিবেশ ও বন)	পার্ট-১	-	পৃষ্ঠা ৫ হতে ৮	লিখিত পরীক্ষা (Close Book)
		পার্ট-২	-	পৃষ্ঠা-৯	লিখিত পরীক্ষা (Open Book)
৬।	গবেষণা কর্মকর্তা (মৎস্য)	পার্ট-১	-	পৃষ্ঠা ৫ হতে ৮	লিখিত পরীক্ষা (Close Book)
		পার্ট-২	-	পৃষ্ঠা-৯	লিখিত পরীক্ষা (Open Book)
৭।	সহকারী সম্প্রসারণ কর্মকর্তা	পার্ট-১	-	পৃষ্ঠা ৫ হতে ৮	লিখিত পরীক্ষা (Close Book)
		পার্ট-২	-	পৃষ্ঠা-৯	লিখিত পরীক্ষা (Open Book)

SYLLABUS FOR DEPARTMENTAL EXAMINATION
PART I (Oral)

1. Engineering:

(a) For Civil Engineers:

- (i) Preparation of designs and estimates.
- (ii) Processes of preparing materials.
- (iii) Modes and specifications of construction.
- (iv) Knowledge of local resources with regard to materials.
- (v) Basic concepts of Water Development in Bangladesh.

[Signature]

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(b) For Chemical, Electrical and Mechanical Engineers.

(Oral)

- (i) Knowledge of availability, sources, quality and price of local and imported materials commonly used for the Water Development Board.
- (ii) Performance specifications of electrical plant and requirements and reference to any standard specification applicable.
- (iii) Preparation of estimates for projects and their component parts, including local works.
- (iv) Knowledge of standard drawings, specification, works manual, etc., adopted by the Board.
- (v) Knowledge and experience of general engineering practices as applied in Water Development Board including specifically the candidate's own experience in the field of erection commissioning, operation and maintenance of—
 - (a) Power Plants.
 - (b) Distribution and transmission system.
 - (c) Protective equipment.
 - (d) Communication system (Carrier, telephone, etc.).
- (vi) Knowledge of tariffs and rules for consumers and owners.
- (vii) Basic concepts of Water Development in Bangladesh.
- (viii) Repairs and maintenance of machinery and equipment.
- (ix) Workshop theory and practice.
- (x) Workshop Organisation and Management.

2. Common to all Engineers:

(These may also be used as reference books by the candidates during the examination.)

- (i) Public Works Accounts Code.
- (ii) Public Works Departmental Code.
- (iii) Financial Rules.
- (iv) Delegation of Administrative and Financial Powers with up-to-date amendments.
- (v) Standard procedure for automatic holding of a formal investigation of Board of enquiry in the event of loss or damage of WDB property.
- (vi) Service Rules.



PART II. (Written)

Paper-1

~~PART~~ I (Common to all Engineers):

(i) The Bangladesh Water and Power Development Boards Order, 1972 (President's Order No. 59 of 1972) with up-to-date amendments and reference made therein.

(ii) Rules and Regulations made by the Government and the Board.

(iii) The Code of Criminal Procedure (Act V of 1898):—

(a) The Code of Criminal Procedure:

Part	I	Chapter I	Sec. 4 & 5
"	II	" II	" 6
"	II	" III	" 32 & 33
"	III	" IV	" 42 & 45
"	III	" V	" 54 to 57 & 59(1)
"	III	" VI	" 68,69,87 & 88
"	III	" VII	" 94,96,102 to 105.
"	IV	" X	" 133 to 136
"	IV	" XII	" 145
"	V	" XIV	" 160 to 163
"	VI	" XV	" 177,179 & 183
"	VI	" XXIV	" 340 to 345
"	VI	" XXX	" 403
"	IX	" XVI	" 540,544,545,548,556 & 560

(b) Tabular Statement of Offences:

Chapter	V	Sec. 177 & 119
"	IX	" 161 to 169
"	X	" 174 to 181
"	XI	" 196,197,202,204,217,
"		218 & 288
"	XIV	" 279,280,383, to 288
"	XV	" 295 to 298
"	XVII	" 352,353,358 & 374
"	XVIII	" 403,426,430 to 438
"	XVIII	" 465,466,471 & 477A.

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2. ~~PART II~~ Paper-11

(i) For Civil Engineers:

- (1) The Embankment and Drainage Act, 1952 (E.B. Act I of 1953);
- (2) The Betterment Fees Act, 1953 (E.B. Act XII of 1953);
- (3) The Canals Act, 1864 (Ben. Act V of 1864);
- (4) The Irrigation (Imposition of Water Rate) Ordinance, 1963 (E.P. Ord. VII of 1963);
- (5) The Land Acquisition Act, 1894 (I of 1894);

(6) The Cattle Trespass Act, 1871 (I of 1871);

(7) The Arbitration Act, 1940 (X of 1940);

(8) The Workmen's Compensation Act, 1923 (VIII of 1923);

(9) The Factories Act, 1965 (E.P. Act IV of 1965); and

(10) The Rules made under the above enactments.

(ii) For Electrical Engineers :

(1) The Factories Act, 1965 (E.P. Act IV of 1965);

(2) The Electricity Act, 1910 (IX of 1910);

(3) The Workmen's Compensation Act, 1923 (VIII of 1923);

(4) The Boilers Act, 1923 (V of 1923);

(5) The Explosives Act, 1884 (IV of 1884);

(6) The Industrial Relations Ordinance, 1969 (XXIII of 1969);

(7) The Employment of Labour (Standing Orders) Act, 1965 (E.P. Act VIII of 1965);

(8) The Institute of Engineers Rules for Electrical Installation for buildings;

(9) The Arbitration Act, 1940 (X of 1940);

(10) The Land Acquisition Act, 1894 (I of 1894); and

(11) The Rules made under the above enactments.

(iii) For Chemical and Mechanical Engineers :

(1) The Factories Act, 1965 (E.P. Act IV of 1965);

(2) The Inland Mechanically Propelled Vessels Act (I of 1917);

(3) The Motor Vehicles Act, 1939 (IV of 1939);

(4) The Workmen's Compensation Act, 1923 (VIII of 1923);

(5) The Boilers Act, 1923 (V of 1923);

(6) The Explosives Act, 1884 (IV of 1884);

(7) The Industrial Relations Ordinance, 1969 (XXIII of 1969);

(8) The Employment of Labour (Standing Orders) Act, 1965 (E.P. Act VIII of 1965);

(9) The Arbitration Act, 1940 (X of 1940);

(10) The Land Acquisition Act, 1894 (I of 1894); and

(11) The Rules made under the above enactments.



FORM 26

(Vide rule 174)

SYLLABUS FOR DEPARTMENTAL EXAMINATION

PART I (PROFESSIONAL)

IRRIGATION :

1. (A) Basic information:

- (a) Concept of Irrigation and plant growth.
- (b) Soil moisture and plant growth.
- (c) Hydrology, watershed data, how it is obtained and used.
- (d) Types of Irrigation system.

(B) Soil and their importance to irrigation:

- (a) Soil Texture and soil structure.
- (b) Characteristics, how to distinguish, effect on irrigation and plant use of soil moisture.
- (c) Effect of cropping pattern.
- (d) Water holding capacity.
- (e) Plant use of water.
- (f) Willting point.

(C) Frequency and amount of Irrigation water :

- (a) Estimation of when to irrigate.
- (b) Root depths of various crops.
- (c) How to determine percentage of soil moisture by feet and appearance.
- (d) Estimation of amount of water to apply.
- (e) Soil Auger, Field Tests.
- (f) Problems in figuring the amount of water to apply and time of irrigation.
- (h) Water Budgeting.

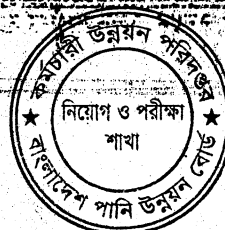
(D) Drainage:

- (a) The concept and importance of Drainage.
- (b) Different kind of Drainage System.
- (c) Farmers role in Drainage.

(E) Use of Surveying Instruments ;

- (i) Types of surveying equipment.
- (ii) Principles and use of surveying equipment.
- (iii) Field practice on:

- (a) Use of Dumpy level,
- (b) Use of Abney level,
- (c) How to record field notes,
- (d) How to map from field notes,



- (e) How to draw contours,
- (f) How to align canals,
- (g) Size and grade of canals needed,
- (h) How to apply water :
Flooding, Basin, Furrow, Corrugation, Border, Dykes.
- (i) How to measure water.

(F) Irrigation structures and their operation.

(G) Farmers' role in Irrigation :

- (a) Co-operation in Irrigation development.
- (b) Block planting,
- (c) Canals, construction, alignment.
- (d) Spreading water in fields,
- (e) Land preparation,
- (f) Water scheduling,
- (g) Tertiary Irrigation Committee and how it works.

2. (A) Extension :

- (i) History and philosophy of extension.
- (ii) Purpose of extension.
- (iii) Organisation of extension.
- (iv) Job description of extension officers.

(B) Extension methods :

- (i) Oral—(a) Printed, (b) Visual and Audio-visual.
- (ii) (a) Importance of leadership in extension and how to develop leadership among rural people.
- (b) Youth organisation and its importance in extension.
- (c) Working with :
 - (i) Rural people.
 - (ii) Village leaders.
 - (iii) Irrigation Committee and Organisation.
 - (iv) Irrigation Development Block Committee (how to make them effective).
 - (v) Chashi Club.
 - (vi) Master Farmer Programme.
 - (vii) Chashi School.

(C) Planning the Programme :

- (i) Survey, how to organize, conduct and use survey data.
- (ii) Making of the calendar of work.
- (iii) Meetings, how to organise and hold programme.



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(D) Visual Aid :

- (a) Method Demonstration.
- (b) Result Demonstration.
- (c) Picture, Photos, Models, Exhibits, Posters, etc.
- (d) Field trips, their purpose and how to organise.
- (e) Reports, their purpose and how to prepare reports.

(E) Farm Management :

- (a) Introduction to Farm Management.
- (b) Basic Economic principles.
- (c) Some Technical aspects of Farm Management.
 - (i) Croperation,
 - (ii) Manures,
 - (iii) Chemical fertilizer and concentrates,
 - (iv) Animal manures and their storage,
 - (v) Green manures,
 - (vi) Compost and compost making,
 - (vii) Farm power and implements.
 - (viii) Irrigation.

(F) Farm Management Investigation :

- (a) Farm Business Survey.
- (b) Preparation Survey.
- (c) Interviewing Farmers.
- (d) Tabulations of survey data and its interpretation.
- (e) To make use of surveys.
- (f) Group statistics.

(G) Farm records and Farm Book Keeping :

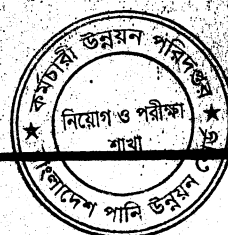
- (a) Description of records and books.
- (b) How to keep records.
- (c) Analysis of record books and preparation of financial statements.

(H) Farm Business Analysis :

- (a) Preliminary survey.
- (b) Diagnosis of problems of individual farmers.
- (c) Making farm plan and budgets.

(I) Soils :

- (a) Soil geneses in different regions of Bangladesh.
- (b) Characteristics of major soil types: High, low and medium.
- (c) Field identification of soil types.
- (d) Effect of soil types on agriculture.
- (e) Water requirement studies.



3. Agronomy :

- (A) What is irrigation Agronomy and how it affects irrigation projects?
- (B) What is consumptive use and how it is obtained? What are the factors that affect consumptive use?
- (C) Effect of Irrigation on fertilizer doses of various crops.
- (D) Various types of soil moisture and their relation with crop up-take.
- (E) Commercial fertilizers, their source, availability to plants and other important factors.
- (F) Soil-water plant relationship.
- (G) Effect of irrigation on physical, chemical and biological properties of soils.
- (H) Availability of plant nutrients under irrigated condition.
- (I) Soil salinity and alkalinity.

5. Land Revenue and Settlements :

Outline on the land revenue collection system.



Syllabus for Departmental Examination

PART II (Accounts Rules and Regulations)

- (i) East Pakistan Water and Power Development Authority Ordinance, 1958 (East Pakistan Ordinance No. I of 1959) with upto date amendments (P.O. 59 of 1972).
- (ii) Rules and Regulations made by Government and the Authority under Sections 18, 30 and 31 of the EPWAPDA Ordinance.
- (iii) East Pakistan Financial Rules.
- (iv) Delegation of Administrative and Financial Powers with upto date amendments.
- (v) Standard procedure for automatic holding of a formal investigation or Board of enquiry in the event of loss or damage to EPWAPDA property (Authority's No. 35-WP(C)/Misc-22/64, dated 29-1-1966).

Vernacular (common to all officers whose mother tongue is not Bengali).

Should be able to read a simple passage in Bengali script and also be able to carry on simple conversation in Bengali Language.

Adhi

f. Rm

WS

