

Note:- This is Module 1 Test series which includes common paper only. Separate test series with video discussion is conducting for Module 2 Test series (Technical papers 5 & 6) and it will be available in store.

**Starting From
24th Dec**

**BPSC-AE 2019 & 2020 NOTIFICATION TEST
SERIES**

Branch:- **CIVIL** | **ELECTRICAL** | **MECHANICAL**

This test series includes Section:- Hindi+ English + General Studies + General Engineering

Total Test	General Engg. Partwise	General Engg. Full length	Hindi Full length	English Full length	General Studies
74	30	6	4	4	30

Note:- Separate test series is conducting for Technical papers 5 & 6 under name Module 2.

BPSC AE EXAM PATTERN

It includes two papers:- **(1) Compulsory Paper**
(2) Optional Paper

Compulsory Paper	Total Marks	Exam Time	Nature
General English	100	1hr	Qualifying
General Hindi	100	1hr	Qualifying
General Studies	100	1hr	Marks count for Rank
General Engineering	100	1hr	Marks count for Rank

Note:- Above syllabus is common for all branches. Two papers called optional paper belong to technical which are given below.

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Optional Paper

<u>Technical Subject Name</u>	<u>Exam Duration</u>	<u>Total Marks</u>
Civil Engg.		
Civil Engineering-1	1 Hour	100 Marks
Civil Engineering-2	1 Hour	100 Marks
Mechanical Engg.		
Mechanical Engineering-1	1 Hour	100 Marks
Mechanical Engineering-2	1 Hour	100 Marks
Electrical Engg.		
Electrical Engineering-1	1 Hour	100 Marks
Electrical Engineering-2	1 Hour	100 Marks

SYLLABUS OF COMMON PAPERS

General English

- (1) Active & Passive Voice
- (2) Direct & Indirect Speech
- (3) Synonyms
- (4) Antonyms
- (5) Comprehension Ability
- (6) Sentence Completion
- (7) Idioms & Phrases
- (8) One Word Substitution
- (9) Sentence Improvement
- (10) Spotting Error

General Hindi

- (1) संधि और संधि विच्छेद
- (2) सामासिक पदों की रचना और समास विग्रह
- (3) उपसर्ग और प्रत्यय

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- (4) पर्यायवाची शब्द
- (5) विपरीतार्थक (विलोम) शब्द
- (6) अनेकार्थक शब्द
- (7) शब्द-युग्म
- (8) संज्ञा शब्दों से विशेषण बनाना
- (9) शब्द-शुद्धि : अशुद्ध शब्दों का शुद्धिकरण और शब्दगत अशुद्धि का कारण शुद्धिकरण
- (10) वाक्य-शुद्धि : अशुद्ध वाक्यों का शुद्धिकरण और वाक्यगत अशुद्धि का कारण
- (11) वाच्य : कर्तृवाच्य, कर्मवाच्य और भाक्याच्य प्रयोग
- (12) क्रिया : सकर्मक, अकर्मक और पूर्वकालिक क्रियाएं
- (13) वाक्यांश के लिए एक सार्थक शब्द
- (14) मुहावरे और लोकोक्तियों

General Studies

- (1) **Geography of India**
- (2) **History of India**
- (3) **Indian Polity**
- (4) **Indian Economy**
- (5) **Everyday Science**
- (6) **General Science (Physics, chemistry, Biology)**
- (7) **Environmental Science**
- (8) **General Physics**
- (9) **General Chemistry**
- (10) **General Biology**
- (11) **CURRENT AFFAIRS (from Oct 2020 to oct 2021)**

GENERAL ENGINEERING

(1)Engineering Mechanics:- General equilibrium equation, Equation of motion, work, power and energy.

(2)Survey:-- Distance and area measurement, measurement of direction and angular slop, Leverage and height, General survey tools, Electrical workshop measurement, Mechanical

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workshop measurement equipment, linear and angular measurement, straight, flat and round measurement.

(3) Measurement:- Measurement of ammeter voltmeter ,charge meter insulation tester energy meter and their working principle.

(4)Mechanics of solid(SOM):- Generalized stress, Strain and constituting laws, transformation of stress, pressure, energy, analysis of beam, column and shaft, unsymmetrical bending, shear center, theories of failure.

(5) Engineering Materials and its Construction:- Brick, Lime, Cement, Aggregates, Glass, Cast Iron and Steel, Iron-Free Metals, Timber, Paints, Miscellaneous Engineering Materials, Engineering Material Testing, Brick Flooring and Wall Building.

(6) Engineering Economics and Management Engineering:- Principles of Engineering Economy, project planning, CPM and PERT techniques, construction Equipment and safety, analysis of rate of important construction items.

(7) Transport phenomenon: Laminar and turbulent flow, concept of boundary layer, continuity equation, Bernoulli's theorem, energy equation, flow measurement, dimensional analysis and modelling, one dimensional study, Conduction of heat through single and multilayer bodies including wells and cylinder, natural and forced convective heat transfer, concept of thermal boundary, Stefan Boltzmann law of radiation, Kirchhoff's law, concept of black and brown bodies.

(8) Energy Conversion: Thermodynamic process, First and second law of thermodynamics, carnot cycle, Rankine cycle, otto cycle, Diesel cycle, impulse and reaction turbine, Reciprocating and centrifugal pump.

(9) Basic Electrical Engineering & Electrical Machine:-circuit laws, network theorems, periodic signals, series & parallel connections of elements in ac & dc, transistor junctions, diodes, transistor equivalent circuit ,transistor common emitter circuit, magnetic effect of electric currents, magnetic circuits, Transformers & its circuit, electromagnetic energy conversion, DC machine (motor & generator), AC machine(motor & generator).

(10) **Environmental engineering**:- Water pollution and purification, waste water treatment, air pollution and its control, ecological balance.

TEST SERIES SCHEDULE

Note:- Schedule may change as per BPSC Notification

TEST NO.	DATE	SUBJECT	SYLLABUS
1	24 th Dec	Basic Electrical Engg. -Part 1	Circuit laws, network theorems, periodic signals, series & parallel connections of elements in ac & dc
2	26 th Dec	Basic Electrical Engg. -Part 2	circuit laws, network theorems, periodic signals, series & parallel connections of elements in ac & dc
3	27 th Dec	BASIC ELECTRICAL ENGG-PART 3	Transistor junctions, diodes, transistor equivalent circuit ,transistor common emitter circuit
4	30 th Dec	BASIC ELECTRICAL ENGG-PART 4	Magnetic effect of electric currents, magnetic circuits
5	31 st Dec	BASIC ELECTRICAL ENGG-PART 5	Transformers & its circuit, electromagnetic energy conversion
6	1 st Jan	BASIC ELECTRICAL ENGG-PART 6	DC machine (motor & generator), AC machine (motor & generator).
7	2 nd Jan	SOM Part-1	Generalized stress, Strain and Constituting laws, transformation of stress, pressure, energy
8,9	3 rd Jan	Gen Studies History Part-1 & 2	Full Syllabus (50 Qn in each test)
10	5 th Jan	SOM Part-2	Analysis of beam, column and shaft.
11,12	7 th Jan	Gen Studies Polity Part-1 & 2	Full Syllabus (50 Qn in each test)
13	8 th Jan	SOM Part-3	Unsymmetrical bending, shear center, Theories of failure
14,15	9 th Jan	Gen Studies Geography Part-1 & 2	Full Syllabus (50 Qn in each test)

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16	10 th Jan	Transport phenomenon part 1	laminar and turbulent flow, Concept of boundary layer, Continuity equation, Bernoulli's theorem, energy equation, flow measurement, dimensional analysis and modelling
17,18	11 th Jan	Gen Studies Current Affairs Part 1 & 2	From Oct 2020 to Nov 2021 (50 Qn in each test)

19,20	12 th Jan	Gen Studies Economy & Current Affairs	Full Syllabus (50 Qn in each test)
21,22	13 th Jan	Gen Studies History + polity & Geography + Economics	Full Syllabus (100 Qn in each test)
23	14 th Jan	Transport phenomenon part 2	laminar and turbulent flow, Concept of boundary layer, Continuity equation, Bernoulli's theorem, energy equation, flow measurement, dimensional analysis and modelling
24	15 th Jan	Gen Studies History + Current Affairs	Full syllabus & From Oct 2020 to Nov 2021 (100 Qn)
25	16 th Jan	Transport phenomenon part 3	One dimensional study, conduction of heat through single and multilayer bodies including wells and cylinder
26	18 th Jan	Transport phenomenon part 4	One dimensional study, conduction of heat through single and multilayer bodies including wells and cylinder
27	20 th Jan	Transport phenomenon part 5	Natural and forced connective heat transfer, concept of thermal boundary, Stefan Boltzmann law of radiation, kirchhoff's law, concept of black and brown bodies
28	21 st Jan	Transport phenomenon part 6	Natural and forced connective heat transfer, concept of thermal boundary, Stefan Boltzmann law of radiation, kirchhoff's law, concept of black and brown bodies
29	22 nd Jan	Measurement part 1	Measurement of ammeter voltmeter

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30	23 rd Jan	Measurement part 2	charge meter insulation tester ,energy meter and their working principle.
31	25 th Jan	Energy coversion part 1	Thermodynamic process, first and second law of thermodynamics, carnot cycle
32	27 th Jan	Energy coversion part 2	Rankine cycle, otto cycle, Diesel cycle
33	29 th Jan	Energy coversion part 3	Impulse and Reaction Turbine, Pelton wheel turbine, Francis turbine, Reciprocating and centrifugal pump.
34	30 th Jan	Engg. Mechanics part 1	General equilibrium equation, Equation of motion, work
35	1 st Feb	Engg. Mechanics part 1	power and energy
36	3 rd Feb	Engineering Materials and its Construction Part 1	Brick, Lime, Cement, Aggregates, Glass, Cast Iron and Steel, Iron-Free Metals
37	4 th Feb	Engineering Materials and its Construction Part 2	Timber, Paints, Miscellaneous Engineering Materials, Engineering Material Testing, Brick Flooring and Wall Building
38	6 th Feb	Engineering Economics and Management Engineering	Principles of Engineering Economy, project planning, CPM and PERT techniques, construction Equipment a safety, analysis of rate of important construction item
39	7 th Feb	Surveying Part 1	Distance and area measurement, measurement of direction and angular slop, Leverage and height, General survey tools, Electrical workshop measurement,
40	8 th Feb	Surveying Part 1	Mechanical workshop measurement equipment, lin and angular measurement, straight, flat and roun measurement.
41	10 th Sep	Environment Part 1	Water pollution and purification,

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42	12 th Feb	Environment Part 2	waste water treatment
43	14 th Feb	Environment Part 3	Air pollution and its control, ecological balance
44,45	16 th Feb	Gen Studies & Gen Engg	Full Syllabus 100 Qn in Each test
46,47	18 th Feb	Gen Studies & Gen Engg	Full Syllabus 100 Qn in Each test
48,49,50	20 th Feb	SPECIAL Gen Studies TEST	Full Syllabus 150 Qn in Each test(Include Maths, this may or may not come but we will cover it also)
51,52,53	22 nd Feb	SPECIAL Gen Studies TEST	Full Syllabus 150 Qn in Each test(Include Maths, this may or may not come but we will cover it also)
54,55,56	24 th Feb	SPECIAL Gen Studies TEST	Full Syllabus 150 Qn in Each test(Include Maths, this may or may not come but we will cover it also)
54,57,58	25 th Feb	SPECIAL Gen Studies TEST	Full Syllabus 150 Qn in Each test(Include Maths, this may or may not come but we will cover it also)
59 to 62	27 th Feb	Gen. Hindi Gen. English Gen Studies Gen Engg.	Full Syllabus As per BPSC-AE
63 to 66	1 st March	Gen. Hindi Gen. English Gen Studies Gen Engg.	Full Syllabus As per BPSC-AE
67 to 70	3 rd March	Gen. Hindi Gen. English Gen Studies Gen Engg.	Full Syllabus As per BPSC-AE
71 to 74	5 th March	Gen. Hindi Gen. English Gen Studies Gen Engg.	Full Syllabus As per BPSC-AE

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