



# BRAIN BRUSH UP ACADEMY

*"Let's to be have a right spark"*

*It's time to analyse your preparation....*

**Online Test for BMC is available  
from **3 Jan****

**(EE/ME)**

Subjectwise Test -	10
Reasoning & Aptitude -	02
Full Length Test -	05-

*Note- No. of test may be increases*

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**7620514539 / 9766971302**



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## BMC TEST SCHEDULE (EE/ME)

Test No.	Electrical Engineering	No. of Que	Marks	Time	Activation Date
1	Basic concepts, resistance ,inductor ,capacitor ,voltage source ,current source, basics of ac system ,(rms value ,peak value ,form factor , peak factor ), résistance reduction technique ,power concept (active ,reactive), voltage division, current division (r,l,c), basic r-l-c circuit , concepts ac system ,dc system	30	30	25	03. jan
2	Substation &receiving station equipment functions , bus bar, CT, PT, Relay ,Circuit barker , Isolator ,surge arrester ,lightning protection ,grounding system ,distribution system parameters	30	30	25	03. jan
3	Principle working ,construction 3 phase and 1Ø motor ,rotor of 3Ø induction motor , starting methods ,testing of motors ,speed control methods, applications of 3Ø and 1Ø, motor control circuit etc	30	30	25	03. jan
4	Classification of insulating materials, dialectical strength ,application ,(Teflon ,bakelite, FRP, PVC etc.), types of cables & constructions part features ,fault fining cable , power factor concept , methods of power factor improvement , effect of power factor improvement , energy conservation , methods of energy conservation , energy conservation ACT ,	30	30	25	03. jan
5	Basics of diode ,rectifier ,transistor (nnp, pnp),MOSFET, FET, logic gates ,DE morgans theorem, Boolean logic ,adder ,counter ,flip flop ,SCR,SMPS ,Inverter ,PWM and applications	30	30	25	03. jan
6	Illumination and its terminology ,types of lamps and its features and applications , DG system , batteries ,building management and terminology , PLC SCADA, automation ,network designing , data transmission digital voltmeter ,ammeter, frequency meter ,potentiometer , megger & its application ,computer technology ,internet ,intranet, database and wear housing	30	30	25	03. jan
<b>Mechanical Engineering</b>					
7	Concepts of basic terminology –milling shaping ,planning, drilling, welding, and joint process etc. Casting ,forging, rolling, drawing ,forming process ,classification, selection of machine tools , tool designing etc.volumatric and thermal efficiency ,SI engine ,CI engine ,combustion knocking, supercharging, cooling lubrication and ignition system ,concepts of SI,CI ENGINE (Carnot cycle, reverse Carnot cycle ,Rankin's cycle ,Otto cycle ,diesel cycle )	30	30	25	05. jan
8	Concepts of stress strain analysis ,trusses and trough ,share stress ,torsion, bending movement and share force concept share force and bending moments in beam ,deflection of beam and different conditions ,shaft and helical spring ,impact load, torsion of bar ,belt drives, gear drives ,joints and coupling ,single and multi cylinder engine v/s engines ,belt and chain drives ,degree of freedom ,	30	30	25	06. jan
9	Torsion ,spring joint ,bearing –types and design ,theory of failure ,factor of safety , combined stresses ,struts and columns, design of screw and bolts ,design of shaft ad spring , key, manufacturing planning and control system , forecasting ,planning functions ,planning of ,	30	30	25	07. jan

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## BMC TEST SCHEDULE (EE/ME)

Test No.	Mechanical Engineering	No. of Que	Marks	Time	Activation Date
	material requirement ,scheduling and sequencing ,project management, advance concept of production planning 1&2 Pumps ,types ,selection efficiency ,character ties ,etc. Compressible fluid flow ,fluid properties ,thrust, buoyancy, viscosity,bernoullistheorem, hydraulic jump, non - uniform flow ,reynolds number ,hydraulic gradient, water hammer	30	30	25	08. jan
10	Thermal engg-ton of refrigeration, concept of latent heat ,evaporation concept , thermodynamics laws and various cycles w.r.to PH curves ,design of refrigeration system ( compressor, expansion unit, ducts ,condenser ,accumulator, evaporator etc.) design of air conditioning system (temp v/s humidity ( 8 different concepts), types of system –split , centralized),latest refrigeration and their examples , concept of engine ,chassis, transmission, drives, assembly, alternator ,axle, body ,wheel, brakes, suspensions , etc. gear drive design and analysis, steeped drive v/s step less drive ,efficiency , 4 wheel drive v/s 2 wheel drive	30	30	25	09 jan
11	<b>Reasoning</b>	30	30	25	10 jan
12	<b>Reasoning</b>	30	30	25	10 jan
13	<b>Full Length Tests ( EE + ME + Reasoning + GS )</b>	100	100	90	11 jan
14	<b>Full Length Tests ( EE + ME + Reasoning + GS )</b>	100	100	90	11 jan
15	<b>Full Length Tests ( EE + ME + Reasoning + GS )</b>	100	100	90	12 jan
16	<b>Full Length Tests ( EE + ME + Reasoning + GS )</b>	100	100	90	12 jan
17	<b>Full Length Tests ( EE + ME + Reasoning + GS )</b>	100	100	90	13 jan

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