

## EKT 2 2015 Mechanical Question Paper Answer Key Series E

<u>QNo:</u>	<u>Answer</u>	<u>Option</u>
1	1 / (9)	b
2	30%	b
3	0.97	c
4	16/81	a
5	scalar	a
6	circular Interpolation — clockwise	a
7	Process II	b
8	Faraday's Law	b
9	the wavelength of X-ray is of the same order of magnitude in the inter-atomic spacing in crystals	b
10	2000 g	d
11	decrease	c
12	60 microns	d
13	maximum tensile	b
14	at fixed end	b
15	zero flat	b
16	resilience	b
17	circumferential tensile stress	d
18	specific gravity of liquid	b
19	all of the above	d
20	106 cycles	c
21	both (a) and (b)	c
22	makes the iron soft and easily machinable	a
23	spheroidising	d
24	can be rolled or hammered into thin sheets	d
25	zero at its upper end	c
26	Air gets heated and humidified	b
27	all of the above	d
28	0.1937	b
29	constant pressure	c
30	For a given compression ratio, Otto cycle is more efficient than Diesel cycle	b

31	absolute zero temperature	b
32	axial flow type	b
33	swept volume	c
34	high speeds	b
35	blade camber and incidence angle	b
36	creep	c
37	un-sprung mass is kept minimum	a
38	fracture point	d
39	minimize the cost without change in quality of the product	c
40	production schedule	c
41	all of these	d
42	7.5 W/m <sup>2</sup> K	a
43	conical locator	a
44	shaping with pinion cutter	b
45	isothermal process	d
46	changing the composition of steel on the surface	a
47	hold the circuit stable at the designed Q-point	d
48	is a voltage-controlled device	c
49	flaps	d
50	equal to the weight	a