

REGISTRATION OPEN IES/GATE/PSUS-2012

BATCH START 22^{ml} May (weekend) 23^{nl} May (Regular)

IES (ESE)-2011 Solution, Answer Key

Mechanical Paper-I

If you found any discrepancy in the options mail to iesacademy@yahoo.com

	SET						SET						SET						SET			
Q.	A	В	C	D		Q.	A	В	C	D		Q.	A	В	C	D	Q		A	В	C	D
No.	Ans.	Ans.	Ans.	Ans.		No.	Ans.	Ans.	Ans.	Ans.		No.	Ans.	Ans.	Ans.	Ans.	No	. A	.ns.	Ans.	Ans.	Ans.
1	В	С	D	A		31	в	в	Α	D		61	D	Α	С	в	9		D	В	в	В
2	C	D	D	D		32	C	B	C	В		62	D	A	D	B	92		c	В	B	D
3	D	В	С	A		33	D	С	D	D		63	С	A	В	В	93		D	D	С	С
4	A	в	D	D		34	A	Α	С	D		64	D	С	В	Α	94		с	D	Α	С
5	D	Α	В	С		35	В	Α	С	A		65	В	В	Α	С	9!	; _	A	Α	Α	D
6	Α	Α	D	в		36	в	Α	Α	D		66	D	Α	Α	Α	96	;	в	в	Α	D
7	D	D	С	Α		37	В	С	С	Α		67	С	С	D	D	97	,	С	D	С	В
8	D	Α	Α	В		38	В	В	Α	D		68	Α	D	Α	В	98	;	A	Α	В	С
9	В	Α	С	С		39	D	С	С	С		69	С	С	Α	Α	99		A	Α	С	В
10	D	В	Α	D		40	В	Α	Α	В		70	Α	D	В	С	10	0	Α	Α	Α	С
11	С	В	В	В		41	Α	D	D	C		71	В	Α	В	В	10	1	Α	D	Α	Α
12	D	С	D	В		42	С	D	D	D		72	В	С	С	В	10	2	D	D	D	Α
13	С	D	С	D		43	В	С	Α	В		73	С	D	D	С	10	3	A	Α	Α	Α
14	D	Α	С	D		44	С	D	Α	В		74	С	С	Α	Α	10	4	В	Α	В	С
15	С	В	D	Α		45	Α	В	С	Α		75	D	С	В	Α	10	5	С	С	С	В
16	С	В	D	В		46	A	D	С	Α		76	D	Α	В	Α	10	6	В	С	В	Α
17	Α	В	В	D		47	Α	С	Α	D		77	В	С	В	С	10	7	A	С	Α	С
18	A	В	С	A		48	С	A	С	A		78	С	A	В	В	10	8	В	С	В	D
19	D	D	В	A		49	В	С	D	A		79	В	С	D	С	10	9	С	D	С	С
20	D	В	С	A		50	В	A	С	В		80	С	A	В	Α	11	0	D	С	D	D
21	С	В	Α	В		51	С	В	D	В		81	A	Α	В	D	11		В	D	В	A
22	С	В	A	D		52	A	В	В	C		82	C	D	В	D	11		В	В	В	C
23	В	В	A	A		53	В	С	D	D		83	A	A	В	С	11		D	D	D	D
24	В	A	C	A		54	D	C	D	A		84	C	B	A	D	11		A	D	D	C
25	A	C	B	C		55	A	D	A	A		85	A	C	C	В	11		A	A	A	C
26	A	A	A	C		56	C	D	D	B		86	C	B	A	D	11		B	D	B	A
27	D	D	C	A		57	A	B	A	B		87	C	A	D	C	11		D	A	D	C
28	A	B	D	C		58	B	C	D	B		88	D	B	B	A	11		A	D	A	A
29	A	A	C	D		59 60	B	B	C	D		89	C	C	A	C	11		A	C	A	C
30	В	С	D	С		60	В	C	В	В		90	A	D	C	Α	12		A	В	Α	Α

Interview Call Estimator IES-2011

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Mechanical Engineering Paper-I Explation of SET-A

- 33. Direct Question from HMT book of R K Rajput Question No. 73 Ans. (d)
- 42. Some work can be obtained by expander. So it will decrease irreversidility.
- $k = \frac{\Delta p}{\Delta V}$ if $\Delta p \uparrow then \Delta V \downarrow$ and bulk modulus (k) remains same 56. V
- 74. In thixotropic substance a time dependant shear stress is there

$$\tau = \mu \left(\frac{du}{dy}\right)^n + f(t)$$

Where f(t) is decreasing

For Bingham or Ideal plastic fluid

$$\tau = \tau_0 + \mu \left(\frac{du}{dy}\right)^n$$

- 96. Water jet machining used speed of water 1000 m/s which is supersonic.
- 117. The exhaust gases can not be cooled down below a certain temperature. The sulphuric acid dewpoint, to avoid low temperature corrosion. If colled below 100°C some water vapour condenses into liquid droplets which reacts with SO₂ or SO_3 to form acid.

Explation of SET-B

13. Direct Question from HMT book of R K Rajput Question No. 73 Ans. (d)

25.
$$k = \frac{\Delta p}{-\frac{\Delta V}{V}}$$
 if $\Delta p \uparrow then \Delta V \downarrow$ and bulk modulus (k) remains same

- **39.** Some work can be obtained by expander. So it will decrease irreversidility.
- 54. In thixotropic substance a time dependant shear stress is there

$$\tau = \mu \left(\frac{du}{dy}\right)^n + f(t)$$

Where f(t) is decreasing

For Bingham or Ideal plastic fluid

$$\tau = \tau_0 + \mu \left(\frac{du}{dy}\right)^t$$

- 65. Water jet machining used speed of water 1000 m/s which is supersonic.
- **97.** The exhaust gases can not be cooled down below a certain temperature. The sulphuric acid dewpoint, to avoid low temperature corrosion. If colled below 100°C some water vapour condenses into liquid droplets which reacts with SO_2 or SO_3 to form acid.

Explation of SET-C

14. In thixotropic substance a time dependant shear stress is there

$$\tau = \mu \left(\frac{du}{dy}\right)^n + f(t)$$

Where f(t) is decreasing

For Bingham or Ideal plastic fluid

$$\tau = \tau_0 + \mu \left(\frac{du}{dy}\right)^n$$

- 25. Water jet machining used speed of water 1000 m/s which is supersonic.
- 73. Direct Question from HMT book of R K Rajput Question No. 73 Ans. (d)

85.
$$k = \frac{\Delta p}{-\frac{\Delta V}{V}}$$
 if $\Delta p \uparrow then \Delta V \downarrow$ and bulk modulus (k) remains same

- 99. Some work can be obtained by expander. So it will decrease irreversidility.
- 117. The exhaust gases can not be cooled down below a certain temperature. The sulphuric acid dewpoint, to avoid low temperature corrosion. If colled below 100° C some water vapour condenses into liquid droplets which reacts with SO₂ or SO₃ to form acid.

Explation of SET-D

- 17. The exhaust gases can not be cooled down below a certain temperature. The sulphuric acid dewpoint, to avoid low temperature corrosion. If colled below 100° C some water vapour condenses into liquid droplets which reacts with SO₂ or SO₃ to form acid.
- 53. Direct Question from HMT book of R K Rajput Question No. 73 Ans. (d)

65.
$$k = \frac{\Delta p}{-\frac{\Delta V}{V}}$$
 if $\Delta p \uparrow then \Delta V \downarrow$ and bulk modulus (k) remains same

- 79. Some work can be obtained by expander. So it will decrease irreversidility.
- 94. In thixotropic substance a time dependant shear stress is there

$$\tau = \mu \left(\frac{du}{dy}\right)^n + f(t)$$

Where f(t) is decreasing

For Bingham or Ideal plastic fluid

$$\tau = \tau_0 + \mu \left(\frac{du}{dy}\right)^2$$

105. Water jet machining used speed of water 1000 m/s which is supersonic.

IES (ESE) 2011

Solution, Answer Key

Engineering Service Examination-2011