

Subject Code : 112 ▼

Subject Code	Exam Date	Q Id	Questions	Answer Key
112	17-12-2020	571	<p>The Chairman and other members of UPSC appointed by-</p> <p>(A) Prime Minister</p> <p>(B) Chief Justice of India</p> <p>(C) President of India</p> <p>(D) Governor of Delhi</p>	(C)
112	17-12-2020	572	<p>Who was the first non-Congress Prime Minister in independent modern India's history?</p> <p>(A) Morarji Desai</p> <p>(B) Charan Singh</p> <p>(C) Gulzarilal Nanda</p> <p>(D) Vishwanath Pratap Singh</p>	(A)
112	17-12-2020	573	<p>Which of the following right is not granted as per our Constitution?</p> <p>(A) Right to equal housing</p> <p>(B) Right to equality</p> <p>(C) Right to freedom</p> <p>(D) Right to follow religion</p>	(A)
112	17-12-2020	574	<p>Kumbh Mela on the banks of which river is situated in Nashik?</p> <p>(A) Ganga</p> <p>(B) Sutlej</p> <p>(C) Mahanadi</p> <p>(D) Godavari</p>	(D)

112	17-12-2020	575	Which is the smallest planet in the Solar system? (A) Pluto (B) Jupiter (C) Mercury (D) Venus	(C)
112	17-12-2020	576	The average weight of 21 boys was recorded as 64 kg. If the weight of the teacher was added, the average increased by one kg. What was the teacher's weight ? (A) 86 kg (B) 64 kg (C) 72 kg (D) 98 kg	(A)
112	17-12-2020	577	42% of a number is 2457. What is the number? (A) 5750 (B) 5800 (C) 5825 (D) 5850	(D)
112	17-12-2020	578	$8.7 + 6.2 \times 7.5 = ?$ (A) 55.04 (B) 55.02 (C) 55 (D) 55.2	(D)
112	17-12-2020	579	The ratio of the present ages of Ritu and Rani is 7 : 5. After seven years, ratio of their ages will be 21 : 16. Karan is five years older than Ritu. What will be age of Karan after three years? (A) 35 years	(B)

			<p>(B) 43 years</p> <p>(C) 38 years</p> <p>(D) 40 years</p>	
112	17-12-2020	580	<p>Of three numbers, the sum of the first two is 45, the sum of the second and the third is 55, and the sum of the third and thrice the first is 90. Find the third number.</p> <p>(A) 20</p> <p>(B) 25</p> <p>(C) 30</p> <p>(D) 15</p>	(C)
112	17-12-2020	581	<p>A transformer has negative voltage regulation when its load pf is</p> <p>(A) zero</p> <p>(B) unity</p> <p>(C) leading</p> <p>(D) lagging</p>	(C)
112	17-12-2020	582	<p>Purpose of open circuit test on a transformer is to measure its</p> <p>(A) cu loss</p> <p>(B) core loss</p> <p>(C) total loss</p> <p>(D) insulation resistance</p>	(B)
112	17-12-2020	583	<p>Instrument transformers are used on ac circuits for extending the range of</p> <p>(A) ammeter</p> <p>(B) voltmeter</p> <p>(C) wattmeter</p>	(D)

			(D) All of the options	
112	17-12-2020	584	<p>In a 3phase induction motor the rotor field rotates at synchronous speed with respect to the</p> <p>(A) stator</p> <p>(B) rotor</p> <p>(C) stator flux</p> <p>(D) None of the options</p>	(A)
112	17-12-2020	585	<p>Which class of induction motor will be well suited for large refrigerators?</p> <p>(A) Class E</p> <p>(B) Class B</p> <p>(C) Class F</p> <p>(D) Class C</p>	(D)
112	17-12-2020	586	<p>Zero power factor method of an alternator is used to find its</p> <p>(A) efficiency</p> <p>(B) voltage regulation</p> <p>(C) armature resistance</p> <p>(D) synchronous impedance</p>	(A)
112	17-12-2020	587	<p>For proper parallel operation ac alternators must have</p> <p>(A) speed</p> <p>(B) voltage rating</p> <p>(C) KVA rating</p> <p>(D) excitation</p>	(B)
112	17-12-2020	588	<p>One of the characteristic of single phase motor is that it is</p>	(B)

			<p>(A) self starting</p> <p>(B) not self starting</p> <p>(C) requires only one winding</p> <p>(D) can rotate in one direction only</p>	
112	17-12-2020	589	<p>Transformers are rated in KVA instead of KW because</p> <p>(A) Load pf not known</p> <p>(B) KVA is fixed whereas KW depends on load</p> <p>(C) total loss depends on volt-ampere</p> <p>(D) it has become customary</p>	(C)
112	17-12-2020	590	<p>In a synchronous motor the rotor copper losses are met by</p> <p>(A) motor input</p> <p>(B) armature input</p> <p>(C) supply lines</p> <p>(D) dc source</p>	(D)
112	17-12-2020	591	<p>If two bulbs are connected in parallel and one bulb blows out, what happens to the other bulb?</p> <p>(A) The other bulb blows out as well</p> <p>(B) The other bulb continues to glow with the same brightness</p> <p>(C) The other bulb glows with increased brightness</p> <p>(D) The other bulb stops glowing</p>	(B)
112	17-12-2020	592	<p>In a _____ circuit, the total resistance is smaller than the smallest resistance in the circuit.</p> <p>(A) Series</p> <p>(B) Parallel</p> <p>(C) Either series or parallel</p>	(B)

			(D) Neither series nor parallel	
112	17-12-2020	593	<p>Calculate the work done in a resistor of 20Ω carrying 5A of current in 3 hours.</p> <p>(A) 1.5J</p> <p>(B) 15J</p> <p>(C) 1.5kWh</p> <p>(D) 15kWh</p>	(C)
112	17-12-2020	594	<p>Three 6 ohm resistors are connected to form a triangle. What is the resistance between any two corners?</p> <p>(A) 6 ohm</p> <p>(B) 12 ohm</p> <p>(C) 4 ohm</p> <p>(D) $8/3$ ohm</p>	(C)
112	17-12-2020	595	<p>Which of the following motors is used in ceiling fan?</p> <p>(A) Universal motor</p> <p>(B) Synchronous motor</p> <p>(C) Series motor</p> <p>(D) Induction motor</p>	(D)
112	17-12-2020	596	<p>Synchronous speed of a 3 phase, 4 pole, 50Hz induction motor is</p> <p>(A) 1500rpm</p> <p>(B) 1600rpm</p> <p>(C) 300rpm</p> <p>(D) 3200rpm</p>	(A)
112	17-12-2020	597	<p>Direct online starter also called D.O.L. starter is used for motors having capacity</p>	(A)

			<p>(A) Less than 5 h.p.</p> <p>(B) Less than 10 h.p.</p> <p>(C) Greater than 10 h.p.</p> <p>(D) For any capacity motor</p>	
112	17-12-2020	598	<p>In a step-up transformer when the voltage delivered is higher than that received, the current delivered is</p> <p>(A) Higher than that received</p> <p>(B) Lower than that received</p> <p>(C) Equal to that received</p> <p>(D) Equal to half of that received</p>	(B)
112	17-12-2020	599	<p>What happens if dc supply is given to the transformer?</p> <p>(A) Transformer will work more efficiently</p> <p>(B) It will work less efficiently</p> <p>(C) It will work same as with ac supply</p> <p>(D) It does not work at all</p>	(D)
112	17-12-2020	600	<p>Which of the following is not an expression of power?</p> <p>(A) $P=VI$</p> <p>(B) $P=I^2R$</p> <p>(C) $P=V^2/R$</p> <p>(D) $P=I/R$</p>	(D)