Electrical Engineering

Q. 1 Displacement current density for time invariant field is									
	a)	Infinite			c)	Zero			
	b)	Indeterminate	;		d)	A function o	f field		
Q.2	The correct sequence of increasing order to electrical conductivity of the given								
	materials is								
	a)	silicon, doped germanium, copper, gold							
	b)	doped germanium, silicon, copper, gold							
	c)	doped germanium, silicon, gold, copper							
	d)	silicon, doped	l germa	nium, gold, co	opper				
Q.3	A 0 -300 V voltmeter has an error of $\pm 2\%$ of full scale deflection. What would be the								he
	range	of readings if to	rue volt	age is 30V?					
	a)	24V-36V			c)	25V-35V			
	b)	29.4 V- 30.6	V		d)	28V-32V			
Q.4	The material of wires used for making resistance standards is usually:								
	a)	manganin			c)	copper			
	b)	nichrome			d)	phosphor bro	onze		
Q.5	In an induction type energy meter, maximum torque is produced when the phase angle							gle	
	betwee	en the two flux	es is:						
	a)	0^0	b)	45 ⁰	c)	60^{0}	d)	90^{0}	

Mechanical Engineering (Sample Question Paper. The Actual Questions will vary)

1.	A solid shaft is used to transmit 120π kilowatt at 120rpm . The torque transmitt			Orpm. The torque transmitted by				
	the shaft is given as							
	a)	30 kNm	b)	60 kNm				
	c)	90 kNm	d)	120 kNm				
2.	For a s	For a simply supported beam of length 'L' carrying a uniformly distributed load of						
	'w' per unit length over the entire span, the value of maximum B.M is equal to							
	a)	$\frac{\text{wL}^2}{4}$	b)	$\frac{\text{wL}^2}{8}$				
	c)	$\frac{\text{wL}^3}{4}$	d)	$\frac{\text{wL}^3}{8}$				
3.	For two gears to mesh							
	a)	the diametral pitch of both gears must be the same						
	b)	tooth thickness of both gears must be	e same					
	c)	number of teeth on both gears must be same						
	d)	whole depth of both gears must be sa	ame					
4. The pairs of gears have 18 and 40 teeth respectively, the centre dista				y, the centre distance is 58 mm, the				
	modul	e is equal to						
	a)	1mm	b)	2 mm				
	c)	3 mm	d)	4 mm				
5.	Which of the following instruments is used to measure temperature?							
	a)	Bourdon gage	b)	Stroboscope				
	c)	Thermocouple	d)	Dial gage				

Civil Engineering

1)	The standard modular size of common building brick as			ick as
	A)	190 x 90 x 90 (mm)	B)	190 x 90 x 40 (mm)
	C)	Both (A) and (B)	D)	200 x 100 x 100 (mm)
2)	Proportion of cement mortal for damp-proof course is:			
	A)	1:1	B)	1:2
	C)	1:4	C)	1:6
3)	Whic	h method is used mainly for non-dest	ructive	testing of piles?
	A)	Rebound hammer method	B)	Water-response method
	C)	Ultrasonic pulse velocity tester	D)	Windsor probe test
4)	Pitch for industrial roof trusses for corrugated Galvanized Iron (GI) sheets is			
	A)	1/6 to 1/2	B)	1/24 to 1/12
	C)	1/3 to 1/6	D)	1/48 to 1/12
5)	Lug a	angles are used in		
	A)	Compression members	B)	Tension members
	C)	Plate girder	D)	Bracings

Geology

Q.1	Which	is the code for letter K?		
	a)	e	c)	d
	b)	m	d)	b
Q.2	Find th	he odd man out:		
	a)	Cut	c)	Nut
	b)	Put	d)	But
Q.3	If 3/p	= 6 and $3/q = 15$ then $p-q = ?$		
	a)	1/3	c)	3/10
	b)	2/5	d)	5/6
Q.4	The yo	oungest oceanic crust is found in		
	a)	Indian Ocean	c)	Atlantic Ocean
	b)	Pacific Ocean	d)	Arctic Ocean
Q.5	Which	n of the following is a modern example of Au	lacogen	related river
	a)	Niger River	c)	Nile River
	b)	Ganga River	d)	Mississippi River

Architecture

1)		A flux of 50 lumen falls perpendicularly on the surface area of 100 sq.m. The surface illumination in lux is;		
	a)	0.5	b)	2
	c)	150	d)	5000
2)	The neighborhood recreation does not have one of the following spaces;			wing spaces;
	a)	Totlots	b)	Parks
	c)	Play areas	d)	Sports Centre
3)	The sound level for Audiometric testing room should be kept at;			pt at;
	a)	20 dB	b)	30 dB
	c)	10 dB	d)	40 dB
4)	Slum Clearance and improvement Act came into existence in the year;		in the year;	
	a)	1970	b)	1972
	c)	1956	d)	1950
5)	Sound absorbing materials with medium to high sound absorbing coefficients have value ranging from;			orbing coefficients have
	a)	>0.20	b)	>0.40
	c)	>0.50	d)	>0.75

Finance

- 1) As per the Income Tax Act in India, in the case of deemed let out property, the deduction which shall be allowed under Section 24 is
 - a) Interest on money borrowed
 - b) Repairs and collection charges
 - c) Insurance premium
 - d) Annual charge
- 2) Which major project did G D Birla launch in 1958 in collaboration with the Kaiser Corporation of USA in Uttar Pradesh?
 - a) Hindustan Copper Company
 - b) Hindustan Aluminium Company
 - c) Hindustan Paper Company
 - d) Hindustan Pencil Company
- 3) An accrued expense can best be described as an amount
 - a) paid and currently matched with earnings.
 - b) paid and not currently matched with earnings.
 - c) not paid and not currently matched with earnings.
 - d) not paid and currently matched with earnings.
- 4) Which of the following is not considered to be an advantage of the corporate form of doing business over the partnership form?
 - a) A potential perpetual and continuous life
 - b) The interests in the company are typically easily transferable
 - c) The managers in the company and shareholders have limited liability
 - d) Persons who manage the company are not necessarily shareholders
- 5) Which of the following statements is false?
 - a) Auditor's lien on his client's books and record is unconditional.
 - b) An adverse report is one where and auditor gives an opinion subject to certain reservation.
 - c) Cut-off procedures are generally applied by auditors to trading transactions.
 - d) Components of audit risk does not include sampling risk.

Human Resources

(Sample Question Paper. The Actual Questions will vary)

1)		organizational development technique involves changing the attitudes, ypes, and perceptions that work groups have about each other?					
	a)	Team building					
	b)	Intergroup development					
	c)	Survey feedback					
	d)	Sensitivity training					
2)	Power tends to corrupt and absolute power corrupts absolutely was said by						
	a)	Lord Acton					
	b)	Sammuel Johnson					
	c)	Henry Kissinger					
	d)	Abraham Lincoln					
3)	The ac job is o	t of increasing the knowledge and skills of any employee for doing a particular called					
	a)	Vestibule training					
	b)	Development					
	c)	Training					
	d)	Counseling					
4)	A theo	ry that says that behavior is a function of its consequences is called:					
	a)	Equity theory					
	b)	Distributive theory					
	c)	Re-distributive theory					
	d)	Reinforcement theory					
5)		which legislation, any reward of settlement and production bonus, if paid utes wages.					
	a)	Payment of wages Act, 1936					
	b)	Equal remuneration Act, 1976					
	c)	Equal Pay Act 1947					

Minimum wages Act, 1938

d)

Company Secretary

1)	The	The property of a company is owned by						
	a)	Promoters						
	b)	Directors						
	c)	Company						
	d)	Member						
2)	Auth	Authorized capital offered for subscription to the public is called						
	a)	Reserve capital						
	b)	Issued capital						
	c)	Subscribed capital						
	d)	Paid up capital						
3)	Ann	Annual Report is submitted by the directors to						
	a)	Auditors						
	b)	Managing Director						
	c)	Registrar of Companies						
	d)	Members.						
4)	Min	Minutes should be recorded in the minute's book within						
	a)	15 days of the meeting						
	b)	60 days of the meeting						
	c)	30 days of the meeting						
	d)	Any time before the next meeting						
5)		A whole time company secretary shall be appointed in every company having a paid up capital of not less than						
	a)	` 1 Cr						
	b)	` 2 Cr						
	c)	` 5 Cr						
	d)	` 10 Cr						

Safety

1)	The	The only thing that can keep you safe consistently is						
	a)	Personal Protective Equipment						
	b)	Directors						
	c)	Obeying all warning signs						
	d)	Your attitude						
2)		Who is responsible for making sure you are using the appropriate PPE and that is in good working condition?						
	a)	Your supervisor						
	b)	Person in charge of safety						
	c)	Your co-workers						
	d)	You						
3)	A fir	A fire will continue to burn until						
	a)	Its heat is removed						
	b)	All its fuel is burned up						
	c)	Its oxygen runs out						
	d)	Any of the above answers occurs						
4)	Failu	ares to provide for Safety may result in:						
	a)	Pain						
	b)	Injury						
	c)	Loss of time and money						
	d)	All of the above						
5)		ere is an emergency you may have to use a fire extinguisher. It's important to where the fire extinguishers are located and to:						
	a)	Test them						
	b)	Read the instructions posted on them						
	c)	Keep one near your at all times						
	d)	Store flammable under them						