

**Course: B. Tech.**

**Branch : Electrical**

**Semester : III**

**Subject Code & Name: Engineering Material Science (BTES305)**

**Max Marks: 60**

**Date:**

**Duration: 3 Hr.**

**Instructions to the Students:**

1. All the questions are compulsory.
2. The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in ( ) in front of the question.
3. Use of non-programmable scientific calculators is allowed.
4. Assume suitable data wherever necessary and mention it clearly.

	(Level/CO)	Marks
<b>Q. 1 Solve Any Two of the following.</b>		<b>12</b>
A) Explain concept of conductivity in metal and describe the Ohms law.	L2	6
B) Explain the phenomenon of superconductivity with application of superconductors.	L2	6
C) State and explain Meissner effect with neat diagram.	L2	6
<b>Q.2 Solve Any Two of the following.</b>		<b>12</b>
A) What is polarization? State & explain types of polarization.	L2	6
B) State and explain point defects in crystal with neat diagram.	L2	6
C) Write a short note on dielectric constant & dielectric breakdown.	L2	6
<b>Q. 3 Solve Any Two of the following.</b>		<b>12</b>
A) Draw & explain the band diagram of semiconductor. State the application of semiconductors.	L3	6
B) Explain the mechanism of conduction in semiconductors & state the properties of semiconductors.	L3	6
C) Write note on Fermi level and electron-hole concentration.	L3	6
<b>Q.4 Solve Any Two of the following.</b>		<b>12</b>
A) Classify different magnetic materials & explain their properties.	L3	6
B) Compare Soft & Hard magnetic materials.	L3	6
C) Write short note on piezoelectric, pyroelectric and ferroelectric materials.	L3	6
<b>Q. 5 Solve Any Two of the following.</b>		<b>12</b>
A) What is refractory materials? Explain properties of refractory materials.	L3	6
B) Why Galvanization & Impregnation of materials is needed for materials?	L3	6
C) Explain the X-ray diffraction using Bragg's law.	L3	6

\*\*\* End \*\*\*

# 2014 Ems Endyear Examination

**Włodzimierz Sroka**



## 2014 Ems Endyear Examination:

ACCA Skills F8 Audit and Assurance (International) Revision Kit 2014 BPP Learning Media,2014-06-01 The examining team reviewed F8 Practice Revision Kit provides invaluable guidance on how to approach the exam and contains past ACCA exam questions for you to try Questions are grouped by syllabus area so that you can easily identify what they cover Detailed solutions provide tips advise you how to approach questions and tell you how to gain easy marks They also include examiners comments to help you understand what the examiner is looking for

**Flextronics International Ltd Patent Landscape Analysis - January 1, 1994 to December 31, 2013** Reiner E. Jargosch,Joseph Jurich,2014-06-30 The following analysis illustrates the underlying trends and relationships of U S issued patents of the subject company The analysis employs two frequently used patent classification methods US Patent Classification UPC and International Patent Classification IPC Aside from assisting patent examiners in determining the field of search for newly submitted patent applications the two classification methods play a pivotal role in the characterization and analysis of technologies contained in collections of patent data The analysis also includes the company s most prolific inventors top cited patents as well as foreign filings by technology area

The Report: Oman 2015 Oxford Business Group,2015-01-21 As with most of its neighbours in the GCC region oil and gas remains a significant contributor to Oman s economy accounting for around 50% of GDP While the recent slump in oil prices is a concern increased investment in enhanced oil recovery techniques in recent times has attempted to make up for this decline with supply increasing as a result Meanwhile Oman s industrial sector particularly the petrochemicals segment is poised for large expansion with ongoing investment in downstream infrastructure and new facilities in the pipeline for the Sohar and Salalah industrial regions expected to contribute significantly to output before 2020 Added to this is the rapid development of Oman s ports rail and airports which is expected to drive its reputation as a regional logistics hub while developing the tourism sector which is considered as key moving forward

*Perspectives on Consumer Behaviour* Włodzimierz Sroka,2020-06-26 This book explores key factors associated with consumer behaviour from both a theoretical and practical perspective It particularly focuses on the consumer in the 21st century educated and conscious but also impatient disloyal and capricious The book is divided into three main parts the first part discusses the theoretical and legal aspects of consumers behaviour analysing the government s role in regulating consumer behaviour and the role of the European Union The second part then examines organisational strategies such as omni channel retailing and branding products And lastly the third part describes consumer behaviours in the context of individual products and services from coffee to energy

**Congressional Record** United States. Congress,2009 **Strong in Will** Marie-Louise Dilkes, Virginia A. Dilkes,2024-02-15 worth reading for the civilian point of view on military events including observations on the U S Army s return to France in 1944 It is also excellent background reading for those who want to know about wartime life in France The Journal of America s Military Past September 1939 slipped into October quite silently as if it did not want

to attract any notice The atmosphere is tense with expectancy ready for the critical times that lie ahead Everyone is geared for eventualities with courage and the lan of high purpose Members of the Embassy staff have received their orders to leave for different posts Bordeaux for some Nantes for others and for others the Ch teau de Cand Some of us volunteered to remain in Paris I was one of them Paris will be safe or as dangerous as any other place perhaps safer as every effort will be made to protect the city with its priceless works of art and its beauty Marie Louise Dilkes astute observations of life in Paris during World War II are written from the unique perspective of the receptionist for the American Embassy The Embassy was the first or last resort for many caught up in the chaos of war and hers was the first face they would see as they walked through the grand doors She takes us from the conquest and occupation of Paris by German forces but includes the war time journey of the American consulate in Paris from Paris to Lisbon to Lyon to Bern and back to Paris She ends with the triumphant return of members of the American Embassy staff after the Allies forced the German Army out of Paris and the reestablishment of the American Embassy in Paris

**INFOFISH Trade News** ,2013      *The Continuing Study of*  
*Newspaper Reading* Advertising Research Foundation,1946      *2005 LexisNexis Corporate Affiliations* ,2005      Newsweek  
,1940

## **2014 Ems Endyear Examination** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**2014 Ems Endyear Examination**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

[https://netdata.businessstraveller.com/results/uploaded-files/fetch.php/Agricultural\\_Sciences\\_Paper\\_November\\_2014\\_Grade\\_1\\_1.pdf](https://netdata.businessstraveller.com/results/uploaded-files/fetch.php/Agricultural_Sciences_Paper_November_2014_Grade_1_1.pdf)

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