

ألم لا نخرج لك بطنك

Did we not expand for you your bosom (Al-Quran - C94/V1)



* The images of scientists are blurred so that they can be hung on walls.

- Their primary education included Quranic learning. They were practicing Muslims which actually helped them achieve greater heights in life.

ACHIEVEMENTS / CONTRIBUTIONS

- Discussed cauterization, bloodletting, midwifery and obstetrics and the treatment of wounds; exposure and division of the temporal artery to relieve certain types of headaches; diversion of urine into the rectum; reduction mammoplasty for excessively large breasts and the extraction of cataracts; injuries to bones and joints; even mentioning fractures of the nasal bones and of the vertebrae
- "Kocher's method" for reducing a dislocated shoulder was described in Al-Tasrif

- Outlined use of caustics in surgery, fully described tonsillectomy, tracheotomy and craniotomy- operations performed on a dead fetus; used a hook to extract a polyp in the nose; used a bulb syringe he invented for giving enemas to children and used a metallic bladder syringe and speculum to extract bladder stones
- The first to describe the "Walcher position" in obstetrics; the first to depict dental arches, tongue depressors and lead catheters & the first to describe the hereditary circumstances surrounding hemophilia;

described ligation of blood vessels

- The French surgeon Guy de Chauliac in his 'Great Surgery', completed in about 1363, quoted Al-Tasrif over 200 times. Al-Zahrawi was described by Pietro Argallata (1423 A.D.) as "without doubt the chief of all surgeons"
- Jacques Delchamps (1513-1588), another French surgeon, made extensive use of Al-Tasrif in his elaborate commentary, confirming the great prestige of Al-Zahrawi throughout the middle Ages and up to the Renaissance

for further details please visit our website: www.mseducationacademy.in

Islamic Environment That Produced

Abu Al-Qasim Khalaf Ibn Al-Abbas الزهراوي

Al-Zahrawi

(324-403 AH) (936-1013 AD)

Western Name: **ALBUCASIS**

Place of Birth: **CORDOBA, SPAIN**

FATHER OF MODERN SURGERY

FIELD: Medicine

BOOKS:

Al-Tasrif - A Medical Encyclopedia spanning 30 volumes which included sections on Surgery, Medicine, Orthopaedics, Ophthalmology, Pharmacology, Nutrition etc.

Translated into Latin and alongside Avicenna's Canon, played a major role as a medical text in the Universities of Europe from the 12th to the 17th century AD

CALENDAR: GREGORIAN - 2014; HIJRI - 1435-36

JANUARY (SAFAR - RABI UL AWWAL)

SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
			٢٨	٢٩	٣٠	٣١
5	6	7	8	9	10	11
١٢	١٣	١٤	١٥	١٦	١٧	١٨
19	20	21	22	23	24	25
٢٦	٢٧	٢٨	٢٩	٣٠	٣١	

ISLAMIC
MONTHS

MUHARRAM - SAFAR - RABI UL AWWAL - RABI US SAANI - JAMADI UL AWWAL - JAMADI US SAANI - RAJAB - SHABAN - RAMZAN - SHAWWAL - ZEE QAD - ZIL HAJ

DECEMBER - 2013 (MUHARRAM - SAFAR)

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

FEBRUARY (RABI UL AWWAL - RABI US SAANI)

SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

- 13 - Bhogi
- 14 - Mridang-Nata / Pongal
- 28 - Republic Day

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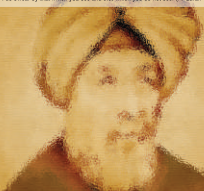
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هَذَا كَيْفَ بِنَاقِصِيهِمْ وَبِنَاقِصِيهِمْ

So, I do swear by that which you see and that which you do not see. (Al-Quran - C69 V38,39)



* The images of scientists are blurred so that they can be kept on walls.

- Their primary education included Quranic learning. They were practicing Muslims which actually helped them achieve greater heights in life.

ACHIEVEMENTS / CONTRIBUTIONS

- The first to describe accurately various parts of the eye and give a scientific explanation of the process of vision
- Carried out the first experiments on the dispersion of light into its constituent colours
- The first to maintain that a body moves perpetually unless an external force stops it or changes its direction of motion - Seems equivalent to the first law of motion
- Made a thorough examination of the passage of light through various media and discovered the laws of

refraction

- Dealt at length with the theory of various physical phenomena like shadows, eclipses, rainbow, and speculated on physical nature of light
- Known for the earliest use of the camera obscura
- Made the important observation that the ratio between the angle of incidence and refraction does not remain constant

Islamic Environment That Produced

Abu Ali Al-Hasan Ibn Al-Hasan Ibn

Al-Haytham

(354 - 432 AH) (965 - 1041 AD)

Western Name: **ALHAZEN**

Place of Birth: **BASRA, IRAQ**

FATHER OF MODERN OPTICS

FIELD: Optics, Mathematics, Physics, Medicine

BOOKS:

- **Kitab-al-Manadhir** Great influence of Western scientific thought e.g. on the work of Roger Bacon and Kepler
- **Mizan al-Hikmah**

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CALENDAR: GREGORIAN - 2014; HIJRI - 1435-36

FEBRUARY (RABI UL AWWAL - RABI US SAANI)

SUN	MON	TUE	WED	THU	FRI	SAT
						1 ١
2 ٢	3 ٣	4 ٤	5 ٥	6 ٦	7 ٧	8 ٨
9 ٩	10 ١٠	11 ١١	12 ١٢	13 ١٣	14 ١٤	15 ١٥
16 ١٦	17 ١٧	18 ١٨	19 ١٩	20 ٢٠	21 ٢١	22 ٢٢
23 ٢٣	24 ٢٤	25 ٢٥	26 ٢٦	27 ٢٧	28 ٢٨	

ISLAMIC
MONTHS

MUHARRAM - SAFAR - RABI UL AWWAL - RABI US SAANI - JAMADI UL AWWAL - JAMADI US SAANI - RAJAB - SHABAN - RAMZAN - SHAWWAL - ZEE QAD - ZIL HAJ

JANUARY (SAFAR - RABI UL AWWAL)

SUN	MON	TUE	WED	THU	FRI	SAT
			1 ١	2 ٢	3 ٣	4 ٤
5 ٥	6 ٦	7 ٧	8 ٨	9 ٩	10 ١٠	11 ١١
12 ١٢	13 ١٣	14 ١٤	15 ١٥	16 ١٦	17 ١٧	18 ١٨
19 ١٩	20 ٢٠	21 ٢١	22 ٢٢	23 ٢٣	24 ٢٤	25 ٢٥
26 ٢٦	27 ٢٧	28 ٢٨	29 ٢٩	30 ٣٠	31 ٣١	

MARCH (RABI US SAANI - JAMADI UL AWWAL)

SUN	MON	TUE	WED	THU	FRI	SAT
30 ٣٠	31 ٣١					1 ١
2 ٢	3 ٣	4 ٤	5 ٥	6 ٦	7 ٧	8 ٨
9 ٩	10 ١٠	11 ١١	12 ١٢	13 ١٣	14 ١٤	15 ١٥
16 ١٦	17 ١٧	18 ١٨	19 ١٩	20 ٢٠	21 ٢١	22 ٢٢
23 ٢٣	24 ٢٤	25 ٢٥	26 ٢٦	27 ٢٧	28 ٢٨	29 ٢٩

• 28 - Maha Shivratri

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أَلَمْ يَتَفَكَّرُوا أَنَّا أَنبِئُكَ مِثْلَ مَا أَنبِئُكَ وَالَّذِينَ مِن قَبْلِهِمْ
Did they not reflect among themselves, (that) Allah has not created the skies and the earth and which is between them both, but in reality and for an appointed term? (Al-Quran - C30:V8)



* The images of scientists are blurred so that they can be hung on walls.

- Their primary education included Quranic learning. They were practicing Muslims, which actually helped them achieve greater heights in life.

ACHIEVEMENTS / CONTRIBUTIONS

- Made original contributions to fields of Philosophy, Mathematics, Physics, Medicine, Geography and Music
- In Chemistry, opposed the idea that base metals can be converted to precious metals
- In Physics, made rich contributions to Geometrical Optics and wrote a book - which later on provided guidance and inspiration to eminent scientists as Roger Bacon
- In Medicine, the first to systematically determine the doses to be administered of all the drugs known at that time
- Pointed out that various notes that combine to produce harmony, have a specific pitch each. Thus, notes with too low or too high, a pitch, are non-petulant. The degree of harmony depends on the frequency of notes
- Pointed out that when sound is produced, it generates waves in the air which strike the eardrum
- His works, in fact, lead to further development of

Islamic Environment That Produced

Abu Yousuf Yaqub Ibn Ishaq الكندي

Al-Kindi

(185 - 259 AH) (801 - 873 AD)

Western Name: **ALKINDI**

Place of Birth: **BASRA, IRAQ**

KNOWN AS PHILOSOPHER OF THE ARABS

FIELD: Calligraphy, Philosophy, Mathematics, Physics, Medicine, Geography and Music

BOOKS: A prolific writer, the total number of books written by him was 241

The prominent among which were divided as follows:

Astronomy: 16 Arithmetic: 11 Geometry: 32 Medicine: 22 Physics: 12
Philosophy: 22 Logic: 9 Psychology: 5 Music: 7

- Risalah dar Tanjim
- Ilahiyat al-Arithm
- Ikhtiyarat al-Ayyam
- Mad-o-Jazz
- Al-Musiqa
- Aduiyah Murakkaba

various subjects for centuries, notably Physics, Mathematics, Medicine and Music

- Al-Kindi's influence on development of Science and Philosophy was significant in the revival of sciences in that period
- In the Middle Ages, Cardano considered him as one of the twelve greatest minds

for further details please visit our website: www.mseducationacademy.in

CALENDAR: GREGORIAN - 2014; HIJRI - 1435-36

MARCH (RABI US SAANI - JAMADI UL AWWAL)

SUN	MON	TUE	WED	THU	FRI	SAT
30 ٢٨	31 ٢٩					1 ٢٨
2 ٢٩	3 جمادي الاول	4 ٢	5 ٣	6 ٤	7 ٥	8 ٦
9 ٦	10 ٧	11 ٨	12 ٩	13 ١٠	14 ١١	15 ١٢
16 ١٣	17 ١٤	18 ١٥	19 ١٦	20 ١٧	21 ١٨	22 ١٩
23 ٢٠	24 ٢١	25 ٢٢	26 ٢٣	27 ٢٤	28 ٢٥	29 ٢٦

ISLAMIC
MONTHS

MUHARRAM - SAFAR - RABI UL AWWAL - RABI US SAANI - JAMADI UL AWWAL - JAMADI US SAANI - RAJAB - SHABAN - RAMZAN - SHAWWAL - ZEE QAD - ZIL HAJ

FEBRUARY (RABI UL AWWAL - RABI US SAANI)

SUN	MON	TUE	WED	THU	FRI	SAT
						1 ٢٨
2 ٢٧	3 ٢٦	4 ٢٥	5 ٢٤	6 ٢٣	7 ٢٢	8 ٢١
9 ٢٠	10 ١٩	11 ١٨	12 ١٧	13 ١٦	14 ١٥	15 ١٤
16 ١٣	17 ١٢	18 ١١	19 ١٠	20 ٩	21 ٨	22 ٧
23 ٦	24 ٥	25 ٤	26 ٣	27 ٢	28 ١	

APRIL (JAMADI UL AWWAL - JAMADI US SAANI)

SUN	MON	TUE	WED	THU	FRI	SAT
		1 ٢٨	2 ٢٧	3 ٢٦	4 ٢٥	5 ٢٤
6 ٢٣	7 ٢٢	8 ٢١	9 ٢٠	10 ١٩	11 ١٨	12 ١٧
13 ١٦	14 ١٥	15 ١٤	16 ١٣	17 ١٢	18 ١١	19 ١٠
20 ٩	21 ٨	22 ٧	23 ٦	24 ٥	25 ٤	26 ٣
27 ٢	28 ١	29 ٣٠	30 ٢٩			

- 17 - Holi
- 31 - Ugadi

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Pursuing Career Growth

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قُلْ هَلْ يَسْتَوِي الَّذِينَ يَعْلَمُونَ وَالَّذِينَ لَا يَعْلَمُونَ ۚ أُولَٰئِكَ الَّذِينَ عِنْدَ رَبِّكَ فَتَرَاهُم فِي مَوَاقِفَ
 Say, "Are those who know and those who do not know equal? Only men of understanding are mild."
 (Al-Quran 39:16)



* The images of scientists are blurred so that they can be hung on walls.

- Their primary education included Quranic learning. They were practicing Muslims which actually helped them achieve greater heights in life.

ACHIEVEMENTS / CONTRIBUTIONS

- Acquired a high standard of scholarship in religion and philosophy
- Was honored by his appointment as a Professor at the Nizamiyah University of Baghdad, which was recognised as one of the most reputed institutions of learning in the golden era of Muslim history
- In Philosophy, Ghazali upheld the approach of Mathematics and exact Sciences as essentially correct. However, he adopted the techniques of Aristotelian logic and the Neoplatonic procedures and employed these very tools to lay bare the flaws and lacunae of the then

prevalent Neoplatonic philosophy and to diminish the negative influences of Aristotelianism and excessive rationalism

- In Philosophy, portrayed the inability of reason to comprehend the absolute and the infinite - Reason could not transcend the finite and was limited to the observation of the relative
- With his clarity of thought and force of argument, was able to create a balance between religion and reason, and identified their respective spheres as being the infinite and the finite, respectively

- In religion, particularly mysticism, he cleansed the approach of sufiism of its excesses and reestablished the authority of the orthodox religion. Yet, he stressed the importance of genuine sufiism, which he maintained was the path to attain the absolute truth
- His theological doctrines penetrated Europe, influenced Jewish and Christian Scholasticism and several of his arguments seem to have been adopted by St. Thomas Aquinas in order to similarly reestablish the authority of orthodox Christian religion in the West

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Islamic Environment That Produced

Abu Hamid Muhammad Ibn Muhammad الغزالي

Al-Ghazali

(450 - 504 AH) (1058 - 1111 AD)

Western Name: **ALGAZEL**

Place of Birth: **TUS, PERSIA**

AFTER PROPHET MOHAMMED (pbuh) SINGLE MOST INFLUENTIAL MUSLIM

THIS IS HOW HE IS REFERRED TO BY HISTORIANS

FIELD: Philosophy

BOOKS:

- Tuhaful al-Falafisi
- Ihya al-'Ulum al-Islamiya

CALENDAR: GREGORIAN - 2014; HIJRI - 1435-36

APRIL (JAMDI UL AWWAL - JAMADI US SAANI)

SUN	MON	TUE	WED	THU	FRI	SAT
		1	2	3	4	5
		٣٠	١ جمادى الثاني	٢	٣	٤
6	7	8	9	10	11	12
٥	٦	٧	٨	٩	١٠	١١
13	14	15	16	17	18	19
١٢	١٣	١٤	١٥	١٦	١٧	١٨
20	21	22	23	24	25	26
١٩	٢٠	٢١	٢٢	٢٣	٢٤	٢٥
27	28	29	30			
٢٦	٢٧	٢٨	٢٩			

ISLAMIC
MONTHS

MUHARRAM - SAFAR - RABI UL AWWAL - RABI US SAANI - JAMADI UL AWWAL - JAMADI US SAANI - RAJAB - SHABAN - RAMZAN - SHAWWAL - ZEE QAD - ZIL HAJ

MARCH (RABI US SAANI - JAMADI UL AWWAL)

SUN	MON	TUE	WED	THU	FRI	SAT
30	31					1
٢٩	٣٠	١	٢	٣	٤	٥
2	3	4	5	6	7	8
٩	١٠	١١	١٢	١٣	١٤	١٥
16	17	18	19	20	21	22
١٥	١٦	١٧	١٨	١٩	٢٠	٢١
23	24	25	26	27	28	29
٢٢	٢٣	٢٤	٢٥	٢٦	٢٧	٢٨

MAY (RAJAB - SHABAN)

SUN	MON	TUE	WED	THU	FRI	SAT
				1	2	3
				١	٢	٣
4	5	6	7	8	9	10
٣	٤	٥	٦	٧	٨	٩
11	12	13	14	15	16	17
١٠	١١	١٢	١٣	١٤	١٥	١٦
18	19	20	21	22	23	24
١٧	١٨	١٩	٢٠	٢١	٢٢	٢٣
25	26	27	28	29	30	31
٢٤	٢٥	٢٦	٢٧	٢٨	٢٩	٣٠

- 06 - Ram Nuzul
- 13 - Mahavir Jayanti
- 14 - Dr. Ambedkar Jayanti
- 18 - Good Friday

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وَأَعْلَمَ كُلَّ شَيْءٍ عَدَدًا

And He computes the numbers of everything. (Al-Quran - C72:V28)



* The images of scientists are shared so that they can be hung on walls.

- Their primary education included Quranic learning. They were practicing Muslims which actually helped them achieve greater heights in life.

ACHIEVEMENTS / CONTRIBUTIONS

- Founder of several branches and basic concepts of Mathematics
- Influenced mathematical thought to a greater extent than any other medieval writer - Phillip Hitt
- Work on Algebra was outstanding, as he not only initiated the subject in a systematic form but he also developed it to the extent of giving analytical solutions of linear and quadratic equations, which established him as the founder of Algebra
- The very name Algebra has been derived from his

- famous book Al-Jabr wa-al-Muqabalah
- His arithmetic synthesised Greek and Hindu knowledge and contained his own contribution of fundamental importance to Mathematics and Science
- Explained the use of zero, a numeral of fundamental importance developed by Arabs
- Developed decimal system so that the overall system of numerals, 'Algorithm' or 'Algorism' is named after him
- Introduced the Indian system of numerals (now known

as Arabic numerals), developed at length several arithmetical procedures, including operations on fractions

- Developed in detail Trigonometric tables containing the Sine functions, which were probably extrapolated to Tangent functions by Maslama
- Perfected the Geometric representation of Conic sections and developed Calculus of two errors, which practically led him to the concept of Differentiation

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CALENDAR: GREGORIAN - 2014; HIJRI - 1435-36

MAY (RAJAB - SHABAN)

SUN	MON	TUE	WED	THU	FRI	SAT
				1 ا رجب	2 ٢	3 ٣
4 ٤	5 ٥	6 ٦	7 ٧	8 ٨	9 ٩	10 ١٠
11 ١١	12 ١٢	13 ١٣	14 ١٤	15 ١٥	16 ١٦	17 ١٧
18 ١٨	19 ١٩	20 ٢٠	21 ٢١	22 ٢٢	23 ٢٣	24 ٢٤
25 ٢٥	26 ٢٦	27 ٢٧	28 ٢٨	29 ٢٩	30 ٣٠	31 ١ شaban

ISLAMIC MONTHS

MUHARRAM - SAFAR - RABI UL AWWAL - RABI US SAANI - JAMADI UL AWWAL - JAMADI US SAANI - RAJAB - SHABAN - RAMZAN - SHAWWAL - ZEE QAD - ZIL HAJ

APRIL (JAMADI UL AWWAL - JAMADI US SAANI)

SUN	MON	TUE	WED	THU	FRI	SAT
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

JUNE (SHABAN - RAMZAN)

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

• 01 - May Day

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وَلَا مَرِضٌ فَهْ يَشْفِيهِ

And when I am sick, Then He it is who cures me. (Al-Quran - C26 - V80)



* The images of scientists are blessed so that they can be hung on walls

- Their primary education included Quranic learning. They were practicing Muslims which actually helped them achieve greater heights in life.

ACHIEVEMENTS / CONTRIBUTIONS

- First original treatise on smallpox and chickenpox.
- First to draw clear comparisons between smallpox and chickenpox.
- The largest Medical Encyclopedia composed in that period.
- Expert Surgeon and the first to use opium for an anesthesia.
- Designed about twenty instruments used in chemical

investigations

- Opened the way for Inorganic and Organic Chemistry.
- The first to produce Sulfuric Acid together with some other acids.
- Prepared Alcohol by fermenting sweet products.
- Introduced concepts of space & time as constituting a continuum.

Islamic Environment That Produced

Muhammad Ibn Zakariya

الرازي
Al-Razi

(239 - 313 AH) (854 - 925 AD)

Western Name: **RHAZES**

Place of Birth: **REY, PERSIA**

CONSIDERED TO BE THE GREATEST AND

MOST ORIGINAL AMONG ALL PHYSICIANS

FIELD: Physician, Mathematician, Physicist and Chemist

BOOKS:

- Kitab al-Mansoori
- Kitab al-Mulooki
- Jami-fi-al-Tib
- Kitab al-Qalb
- Kitab-al-Hajj al-Ghoraba
- Al-Hawi
- Kitab al-Judari wa al-Hasabah
- Maqalah fi al-Hasat fi Kuli wa al-Mathana
- Kitab al-Mafasil
- Bar al-Sa'ah and al-Taqseem wa al-Takhair

- Greatly influenced development of Science, in general, & Medicine, in particular.
- 200 outstanding scientific contributions; 100 deal with Medicine and 21 concern Alchemy.

for further details please visit our website: www.mseducationacademy.in

CALENDAR: GREGORIAN - 2014; HIJRI - 1435-36

JUNE (SHABAN - RAMZAN)

SUN	MON	TUE	WED	THU	FRI	SAT
1 ٢	2 ٣	3 ٤	4 ٥	5 ٦	6 ٧	7 ٨
8 ٩	9 ١٠	10 ١١	11 ١٢	12 ١٣	13 ١٤	14 ١٥
15 ١٦	16 ١٧	17 ١٨	18 ١٩	19 ٢٠	20 ٢١	21 ٢٢
22 ٢٣	23 ٢٤	24 ٢٥	25 ٢٦	26 ٢٧	27 ٢٨	28 ٢٩
29 ٣٠	30 ١ ربيع					

ISLAMIC
MONTHS

MUHARRAM - SAFAR - RABI UL AWWAL - RABI US SAANI - JAMADI UL AWWAL - JAMADI US SAANI - RAJAB - SHABAN - RAMZAN - SHAWWAL - ZEE QAD - ZIL HAJ

MAY (RAJAB - SHABAN)

SUN	MON	TUE	WED	THU	FRI	SAT
				1 ١	2 ٢	3 ٣
4 ٤	5 ٥	6 ٦	7 ٧	8 ٨	9 ٩	10 ١٠
11 ١١	12 ١٢	13 ١٣	14 ١٤	15 ١٥	16 ١٦	17 ١٧
18 ١٨	19 ١٩	20 ٢٠	21 ٢١	22 ٢٢	23 ٢٣	24 ٢٤
25 ٢٥	26 ٢٦	27 ٢٧	28 ٢٨	29 ٢٩	30 ٣٠	31 ٣١

JULY (RAMZAN - SHAWWAL)

SUN	MON	TUE	WED	THU	FRI	SAT
		1 ١	2 ٢	3 ٣	4 ٤	5 ٥
6 ٦	7 ٧	8 ٨	9 ٩	10 ١٠	11 ١١	12 ١٢
13 ١٣	14 ١٤	15 ١٥	16 ١٦	17 ١٧	18 ١٨	19 ١٩
20 ٢٠	21 ٢١	22 ٢٢	23 ٢٣	24 ٢٤	25 ٢٥	26 ٢٦
27 ٢٧	28 ٢٨	29 ٢٩	30 ٣٠	31 ٣١		

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بِإِذْنِ اللَّهِ تَتَّبِعُوا الْحَقَّ وَتَرْكُوا الْبَاطِلَ

Allah has permitted trade and forbidden interest. (Al-Duran - C2:V275)

Islamic Environment That Produced

Abu Zayd Abdur Rahman Bin Muhammad ابن خلدون

Ibn Khaldun

(725 - 808 AH) (1332 - 1406 AD)

Western Name: IBN KHALDUN

Place of Birth: TUNIS

FATHER OF HISTORIOGRAPHY, SOCIOLOGY & ECONOMICS

FIELD: History, Sociology, Mathematics, Education and Philosophy

BOOKS: Muqaddimah - the first volume of world history

- **Kitab al-I'bar** - deals with the history of Arabs, contemporary Muslim & European rulers, ancient history of Arabs, Jews, Greeks, Romans, Persians, etc., Islamic History, Egyptian history and North-African history
- **Al-Tasir** - Initiated a new analytical tradition in the art of writing autobiography

* The images of scientists are blurred so that they can be hung on walls

ACHIEVEMENTS / CONTRIBUTIONS

- Appointed the Chief Malakite Judge
- Appointed Lecturer at Al-Azhar University at a young age
- First volume of world history won him an immortal place among historians, sociologists and philosophers
- In Philosophy of History, he analysed the dynamics of group relationships and showed how group-feelings, al-Asabiyya, give rise to the ascent of a new civilization and political power and how its diffusion into a more

general civilization invites the advent of a still new 'Asabiyya in its pristine form

- Identified an almost rhythmic repetition of rise and fall in human civilization, and analysed factors contributing to it
- Contribution to history is marked by the fact that unlike earlier writers interpreting history largely in a political context, he emphasised environmental, sociological, psychological and economic factors governing the apparent events

- Revolutionised science of history and laid the foundation of Ummayyat (Sociology)
- Influence on the subjects of History, Philosophy of History, Sociology, Political Science and Education has remained paramount ever since his life
- Books have been translated into many languages, both in the East and the West, and have inspired subsequent development of these sciences

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CALENDAR: GREGORIAN - 2014; HIJRI - 1435-36

JULY (RAMZAN - SHAWWAL)

SUN	MON	TUE	WED	THU	FRI	SAT
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

ISLAMIC
MONTHS

MUHARRAM - SAFAR - RABI UL AWWAL - RABI UL SAANI - JAMADI UL AWWAL - JAMADI UL SAANI - RAJAB - SHABAN - RAMZAN - SHAWWAL - ZEE QAD - ZIL HAJ

JUNE (SHABAN - RAMZAN)

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

AUGUST (SHAWWAL - ZEE QAD)

SUN	MON	TUE	WED	THU	FRI	SAT
31					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

- 25 - Juma-ul-Wida
- 29 - Eid-ul-Fitr

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MS RESEARCH FOUNDATION
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الَّذِينَ خَلَقُوا فَسَخَطَ لَهُمْ أَجَلَهُمْ
Who created you, then set the equilibrium in you so as to balance you. In whatever form He willed, He constituted you. (Al-Quran - 82:4-7)



* The images of scientists are blurred so that they can be hung on walls.

- Their primary education included Quranic learning. They were practicing Muslims which actually helped them achieve greater heights in life.

ACHIEVEMENTS / CONTRIBUTIONS

- Left Spain on a plant-collecting expedition along the northern coast of Africa as far as Asia Minor in 1210 AD
- Appointed chief herbalist with Al-Kamil, the Egyptian Governor
- Kitab al-Jami – a systematic work that embodies earlier works, with due criticism, and adds a great part of original contribution
- The encyclopedia comprises 1,400 different medicinal

plants and vegetables, of which about 200 plants were not known earlier

- References drawn from works of 150 Arabic authors & quotes from 20 early Greek scientists
- Contributions characterised by observation, analysis and classification

- Exerted a profound influence on Eastern as well as Western Botany and Medicine

- Provided names in Greek and Latin, paving way for transfer of Knowledge

Islamic Environment That Produced

البيطار
Abu Muhammad Abdullah Ibn Ahmad Ibn

Al-Baitar

(593 - 646 AH) (1197 - 1248 AD)

Western Name: **AL BAITAR**

Place of Birth: **DAMASCUS, SYRIA**

KNOWN FOR

SCIENTIFIC CLASSIFICATION ONCOLOGY

FIELD: Botanist, Scientist, Pharmacist, Physician

BOOKS:

- Kitab al-Jami fi al-Adwiya al-Mufrada** - is one of the greatest botanical compilations dealing with Medicinal Plants in Arabic - enjoyed a high status among botanists up to the 16th century
- Kitab al-Mughni fi al-Adwiya al-Mufrada** - His second monumental treatise an Encyclopedia of Medicine

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CALENDAR: GREGORIAN - 2014; HIJRI - 1435-36

AUGUST (SHAWWAL - ZEE QAD)

SUN	MON	TUE	WED	THU	FRI	SAT
31 ٥					1 ٣	2 ٥
3 ٦	4 ٧	5 ٨	6 ٩	7 ١٠	8 ١١	9 ١٢
10 ١٣	11 ١٤	12 ١٥	13 ١٦	14 ١٧	15 ١٨	16 ١٩
17 ٢٠	18 ٢١	19 ٢٢	20 ٢٣	21 ٢٤	22 ٢٥	23 ٢٦
24 ٢٧	25 ٢٨	26 ٢٩	27 ٣٠	28 ٣١	29 ٣٢	30 ٣٣

ISLAMIC
MONTHS

MUHARRAM – SAFAR – RABI UL AWWAL – RABI US SAANI – JAMADI UL AWWAL – JAMADI US SAANI – RAJAB – SHABAN – RAMZAN – SHAWWAL – ZEE QAD – ZIL HAJ

JULY (RAMZAN - SHAWWAL)

SUN	MON	TUE	WED	THU	FRI	SAT
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

SEPTEMBER (ZEE QAD - ZIL HAJ)

SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

- 15 - Independence Day
- 17 - Zameer Chauri
- 28 - Ganesh Chaturthi

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إِنَّ الدَّمَ يَجْرِي فِي عَيْنِ الْإِنْسَانِ مِثْقَالَ حَبِّ خَلْفٍ
 Prophet Muhammad (saw): Shaitaan circulates in the human being as blood circulates in the body.
 (Sahih Al-Bukhari : 2038)



* The images of scientists are shared so that they can be hung on walls.

- Their primary education included Quranic learning. They were practicing Muslims which actually helped them achieve greater heights in life.

ACHIEVEMENTS / CONTRIBUTIONS

- Renowned expert on Shafai School of Jurisprudence and a reputed Physician
- Appointed Principal of the famous Nasri Hospital. Here he imparted training to a large number of medical specialists, including Ibn al-Quff al-Masbi, the famous surgeon. He also served at the Mansuriya School at Cairo
- Donated his house, library and clinic to the Mansuriya Hospital in Cairo, where he also served
- Approach comprised writing detailed commentaries on early works, critically evaluating them and adding his own original contribution
- His major original contribution of great significance was his discovery of the blood's circulatory system, which was rediscovered by modern science after a lapse of three centuries
- The first to correctly describe the constitution of the lungs and gave a description of the bronchi and the

interaction between the human body's vessels for air and blood

- Elaborated the function of the coronary arteries as feeding the cardiac muscle

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CALENDAR: GREGORIAN - 2014; HIJRI - 1435-36

SEPTEMBER (ZEE QAD - ZIL HAJ)

SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

ISLAMIC MONTHS

MUHARRAM - SAFAR - RABI UL AWWAL - RABI UL SAANI - JAMADI UL AWWAL - JAMADI UL SAANI - RAJAB - SHABAN - RAMZAN - SHAWWAL - ZEE QAD - ZIL HAJ

AUGUST (SHAWWAL - ZEE QAD)

SUN	MON	TUE	WED	THU	FRI	SAT
31					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

OCTOBER (ZIL HAJ - MUHARRAM)

SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

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أَلَمْ يَسْمَعُوا فِي الْأَمْرِ إِذْ يَقُولُ لَا يُبْعَثُونَ يَهْمُ أَفْئِدَتُهُمْ بِمَا لَا يُعْلَمُونَ أَلَمْ يَكُنْ لَهُمْ آيَاتُ أَنْبِيَآئِهِمْ الَّيْسَ لَهُمْ قُلُوبٌ يَفْقَهُونَ
Then did they not travel in the earth so as to have hearts (minds) with which they could understand or ears with which they could hear? (Al-Quran - 022:46)

Islamic Environment That Produced

ابن بطوطه
Abu Abdullah Muhammad

Ibn Batuta

(704 - 771 AH) (1304 - 1369 AD)

Western Name: **IBN BATUTA**

Place of Birth: **TANGIER, MOROCCO**

THE MOST REMARKABLE TRAVELER OF ALL TIME

FIELD: Geography

BOOKS:

Rihala (The Famous Travels)

The images of
travelers are blurred
so that they can be
seen through the
fog of time.

- Their primary education included Quranic learning. They were practicing Muslims which actually helped them achieve greater heights in life.

ACHIEVEMENTS / CONTRIBUTIONS

- Started traveling at the age of 21 years
- Travels started from Tangier on Thursday, 14th June, 1325 AD (2nd Rajab 725 AH)
- Travels lasted for about thirty years
- The only medieval traveler who is known to have visited the lands of every Muslim ruler of his time
- The mere extent of his travels is estimated at no less

than 75,000 miles, a figure which is not likely to have been surpassed before the age of steam

- Sultan Mohammad Tughlaq sent him as his envoy to China; passing through Central India & Malwa took a ship from Kambay to Goa, & after visiting many thriving ports along the Malabar Coast reached the Maldives Islands, from which he crossed to Ceylon. Continuing his journey, landed on the Ma bar (Coromandal) coast &

set sail for Bengal & visited Kamrup, Sylhet & Sonargaon (near Dhaka). Sailing along the Arakan coast came to Sumatra & later landed at Canton via Malaya & Cambodia; In China travelled northward to Peking through Hangchow. Retracing his steps, returned to Calicut & took a ship to Dhaifur & Muscat, & passing through Iran, Iraq, Syria, Palestine & Egypt made his 7th & last pilgrimage in Makkah in November 1348 AD & then returned to his home town of Fez

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OCTOBER (ZIL HAJ - MUHARRAM)

SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

ISLAMIC
MONTHS

MUHARRAM - SAFAR - RABI UL AWWAL - RABI UL SAANI - JAMADI UL AWWAL - JAMADI UL SAANI - RAJAB - SHABAN - RAMZAN - SHAWWAL - ZEE QAD - ZIL HAJ

SEPTEMBER (ZEE QAD - ZIL HAJ)

SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

NOVEMBER (MUHARRAM - SAFAR)

SUN	MON	TUE	WED	THU	FRI	SAT
30						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

- 01 - Ganesh Jayanti
- 05 - Eid-ul-Adha (Bakr Eid)
- 06 - Dussehra
- 23 - Dussehra

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مَا كَانَ لِلَّهِ أَنْ يَرْفَعَهُ

Allah has not sent down any illness except He has sent down its cure. (Sahih Al-Bukhari : 5678)



* The images of scientists are blessed so that they can be hung on walls

- Their primary education included Quranic learning. They were practicing Muslims which actually helped them achieve greater heights in life

ACHIEVEMENTS / CONTRIBUTIONS

- By the age of ten years had become well versed in the study of the Qur'an and various sciences
- While still young, he attained such a degree of expertise in medicine that his name spread far and wide
- At the age of 17, cured Nooh ibn Mansoor, the King of Bukhkhara, of an illness in which all well-known physicians had given up hope
- Recognition of the contagious nature of phthisis and

tuberculosis; distribution of diseases by water and soil, and interaction between psychology and health

- Also the first to describe meningitis & made rich contributions to Anatomy, Gynecology & Child Health
- Made the important observation that if the perception of light is due to the emission of some sort of particles by the luminous source, speed of light must be finite
- In the field of music, his contribution was an

improvement over Farabi's work and was far ahead of knowledge prevailing elsewhere on the subject. Doubling with the fourth and fifth was a 'great' step towards the harmonic system and doubling with the third seems to have also been allowed. Ibn Sina observed that in the series of consonances represented by $(n + 1)/n$, the ear is unable to distinguish them when $n = 45$

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CALENDAR: GREGORIAN - 2014; HIJRI - 1435-36

NOVEMBER (MUHARRAM - SAFAR)

SUN	MON	TUE	WED	THU	FRI	SAT
30						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

ISLAMIC MONTHS

MUHARRAM - SAFAR - RABI UL AWWAL - RABI US SAANI - JAMADI UL AWWAL - JAMADI US SAANI - RAJAB - SHABAN - RAMZAN - SHAWWAL - ZEE QAD - ZIL HAJ

OCTOBER (ZIL HAJ - MUHARRAM)

SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

DECEMBER (SAFAR - RABI UL AWWAL)

SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

* 04 - Asharab (10 Muharram)

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Pursuing Career Growth

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Nursing Career Growth

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Nursing Career Growth

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وَمَا تَعْلَمُونَ أَنَّ ثِقَالَ خُلُقِهِ فِي الْأَرْضِ وَلَا فِي السَّمَاءِ وَلَا الْمَعْلُومِ مِنْ ثِقَلِهِ إِلَّا فِي كِتَابٍ مُبِينٍ
And not (even) the weight of a particle in the earth or in the sky is hidden from your Fosterer and nothing less than that nor greater but it is (recorded) in a clear record. (Al-Quran - C10:V51)

Islamic Environment That Produced

Abu Musa Jabir

ابن حيان

Ibn Hayyan

(104 - 188 AH) (722 - 804 AD)

Western Name: **GEBER**

Place of Birth: **TUS, PERSIA**

THE FIRST PRACTICAL ALCHEMIST

FIELD: Alchemy and Chemistry, Astronomy, Astrology, Medicine and Pharmacy, Philosophy, Physics, Philanthropist

MAJOR WORK:

- Kitab al-Kimyā
- Book of the Kingdom
- Book of Eastern Mercury
- Kitab al-Sab'een
- Book of the Balances

* The images of scientists are blurred so that they can be kept on walls.

- Their primary education included Quranic learning. They were practicing Muslims which actually helped them achieve greater heights in life.

ACHIEVEMENTS / CONTRIBUTIONS

- He is the first to discover Sodium Hydroxide
- He is the first to prepare Golden Water
- He is the first to discover Separating Silver from Gold by untying with acids
- He is the first to prepare Nitric acid
- He is the first to prepare Hydrochloric Acid
- He is the first to prepare Sulfuric Acid and called it Vitriol
- He modified the following ways in melting, crystallization, evaporation, distillation and clarification
- The 112 Books dedicated to the Barmakids, viziers of Caliph Harun al-Rashid. This group includes the Arabic version of the Emerald Tablet, an ancient work that proved a recurring foundation of and source for alchemical operations. In the Middle Ages it was translated into Latin (Tabula Smaragdina) and widely diffused among European alchemists
- The Seventy Books, most of which were translated into Latin during the Middle Ages. This group includes the Kitab al-Zuhra ("Book of Venus") and the Kitab Al-Ahjar ("Book of Stones")
- The Ten Books on Rectification, containing descriptions of alchemists such as Pythagoras, Socrates, Plato and Aristotle
- The Books on Balance; this group includes his most famous 'Theory of the balance in Nature'

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CALENDAR: GREGORIAN - 2014; HIJRI - 1435-36

DECEMBER (SAFAR - RABI UL AWWAL)

SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

ISLAMIC MONTHS

MUHARRAM - SAFAR - RABI UL AWWAL - RABI UL SAANI - JAMADI UL AWWAL - JAMADI UL SAANI - RAJAB - SHABAN - RAMZAN - SHAWWAL - ZEE QAD - ZIL HAJ

NOVEMBER (MUHARRAM - SAFAR)

SUN	MON	TUE	WED	THU	FRI	SAT
30						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

JANUARY - 2015 (RABI UL AWWAL - RABI UL SAANI)

SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

• 25 - Christmas

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