

HIGHLIGHTS ...

ENTER THE AMAZING WORLD	
AS A VETERINARIAN	1,7
DAIRY ANIMAL PRACTICE -	
AN EXCITING VETERINARY PROFESSION ..	1,5,6
CAREER BUILDING OPPURTUNITIES	
IN VETERINARY WORLD	1,7
MY JOURNEY TOWARDS MY DREAM	1,6
EDUCATIONAL NEWS	1,2
EDITOR SPEAKS	2
A BRIEF INTRODUCTION	
OF VETERINARY SCIENCE	2
STUDY ABROAD NEWS	3,4
USA VISA QUESTIONS	3,4
SPECTRUM OF OPENINGS	
IN VETERINARY MEDICINE	4
GMAT TUTORIAL	5
A FIRST HAND EXPERIENCE FROM A	
PRIVATE VETERINARY PRACTITIONER	6
QUALIFICATION FOR ADMISSIONS TO	
VETERINARY COLLEGES	7

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EDUCATIONAL NEWS**► PM reiterates government's thrust on higher education**

New Delhi: Prime Minister Manmohan Singh on reiterated his government's commitment to giving a major boost to higher education by setting up "world class" universities and quality institutions including more Indian Institutes of Technology (IITs) and Indian Institutes of Management (IIMs).

► IIM- Bangalore increases fee to Rs 4 Lakh

Bangalore, The Indian Institute of Management, Bangalore, said it has decided to hike its fee for PGP (Post Graduate Programme in Management) to Rs.4 lakhs for the year 2008-2009 from the present Rs 2.5 lakhs. When the students would go into the second year (2009-2010) they would have to pay Rs 5 lakhs.

► Textile, Apparel Mgmt courses at SVPITM

Coimbatore: Sardar Vallabhbhai Patel Institute of Textile Management (SVPITM) has

contd. on page 2 ...

ENTER THE AMAZING WORLD - AS A VETERINARIAN

"The best doctor in the world is a veterinarian. He can't ask his patients what is the matter - he's got to just know." - Will Rogers.

Veterinary science is as old as the civilization itself. The Vedas contain a lot of information on the treatment of man as well as animal. There are documentary records about Salihotra and Palakapya, who were the greatest of ancient Indian veterinarians. Salihotra treated several horses where as Palakapya gave medicine to the elephants. Ancient veterinary subjects in Sanskrit included the Hastya Ayurveda on elephants and the Aswa Pariksha on horses. Records in the Vedas state that medical science arose from veterinary science. In spite of it being such an old and ancient science, veterinary science is still flourishing and there are varied career opportunities for budding veterinarians.

With more and more people keeping pets than ever before, both

companionship and protection, the demand for veterinary doctors has increased sharply. Allied to it is the growth in the demand for animal care products. A veterinarian or a doctor of animals' primary responsibility is to look after the health and welfare of the animals. It also includes the breeding and scientific handling of livestock. Veterinarians deal with all types of animals small or big including their medical and surgical treatment. Medical care for animals and birds, wildlife preservation and pet care have gained wide application in the recent past. Today veterinarians are in demand both at the rural and urban settings and it is an emerging field

contd. on page 7 ...



Dr. Dinesh U. Lokhande

• Associate Professor of Surgery
B o m b a y Veterinary College, Parel, Mumbai - 400 012

DAIRY ANIMAL PRACTICE AN EXCITING VETERINARY PROFESSION

A veterinarian is in a unique position to undertake numerous responsibilities owing to his training in areas that are diverse. An important field in which a veterinarian engages is food animal practice, especially dairy. The dairy sector in India is by far the largest within livestock. The scope of the practice can be gauged from the



Dr. Abdul Samad
M.V.Sc, Ph.D.

(University of Guelph Canada)
Dean

• B o m b a y Veterinary College, (Maharashtra Animal and Fishery Sciences University Nagpur) Parel, Mumbai - 12.

contd. on page 5 ...

CAREER BUILDING OPPURTUNITIES IN VETERINARY WORLD

Self employment

1. Private practice
2. Consultancy
3. Partner/ Assistance to a Practitioner
4. Diagnostic labs
5. X-ray, ultrasound facility
6. Zoo- Bird & Animal sanctuary

• Dairy sector

There are now more than 400 dairy plants in the country making various types of milk products. They need good qualified & well trained personnel to run the plant efficiently. The growth of the dairy processing industry has also encouraged the

indigenization of dairy equipment. Veterinarian's job includes ensuring increased milk production and looking after the health and breeding of dairy cattle. Also, there are government - owned breeding farms in various states across the country where scientific cattle breeding schemes have been initiated to bring forth better progeny.

• Poultry sector

Poultry sector has played a crucial role in increasing egg & meat production in India & in providing income & employment to large no. of people in India. Poultry eggs & meat are a rich source of high quality

b a l a n c e d proteins vitamin & minerals Poultry provides rich organic manure for crops. Chicken meat is the most widely accepted meat in India. It has no religious taboos like pork/ beef.

• Pharmaceutical Companies

Veterinarians are employed in the research & development in

contd. on page 7 ...



Dr. Atul Joshi
General Manager
Lyka Healthcare Division

INVITING ARTICLES FROM READERS ON CAREER OPTIONS IN INDIA AT article@myeducationguide.in

MY JOURNEY TOWARDS MY DREAM

I always knew getting admission in a reputed university for my M.B.A. would be a daunting and challenging task. But full credit goes to my parents for their unconditional love and support that they bestowed upon me during this struggle.

I had approached EACC after having a real bad experience with an earlier counselling centre and even though

I had a Masters Degree from UK and international work experience, The approach of EACC was very professional and organized and I knew I was banking on a counselling centre with sound knowledge.

First things first, my biggest problem as I started preparing for my GMAT exams, was that I was unable to take leave for the preparations and my

work schedule in my current company was very tight. As a result of which I did not get the desired score required for admission. However, I did not loose heart and knew I could bank on my previous work experience and international degree.

As part of my preparation strategy

contd. on page 6 ...

Mr. Sattick Roy

- Qualification MA in HRD & Consulting from Lancaster University, UK
- Work Experience Coral Ltd., UK & Rolta India Ltd. as HR Executive



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announced admissions to its Post-Graduate Diploma (PGDip) Programs in Textile Mgmt and Apparel Mgmt & Post Diploma in Home Textile Mgmt. Students with any degree in Textile Technology, Costume, Fashion, and Apparel Production are eligible to apply for the 2 year PGDip programs in Textile Management and Apparel Management.

► **India to set up space science institute**

New Delhi, (IANS) India, an acknowledged power in space science, will launch from the next academic year an Indian Institute of Space Science & Technology (IIST) with an initial investment of Rs.2.70 billion (\$66.5 million) to address the manpower shortage faced by the national space agency. The setting up of the IIST, will provide high-quality undergraduate and postgraduate education in space technology and science and postgraduate and research programmes and integrated Masters in Space Science degree with customized curriculum.

Editor speaks

Dear Readers

Thanks for your response and support that you have shown for the first edition of myeducationguide. I am quite excited by the feedback that I have received from many students, schools and individuals. I have planned to have a section in my next edition where I would reply to your feedbacks. Do send me your feedback in future at feedback@myeducationguide.in

We were able to circulate 40,000 prints of myeducationguide 1st edition to the students, teaching staff and library of following colleges in Mumbai:

1. Bhavans College, Andheri
2. MKS college of commerce and Economics, Juhu
3. K. J. Somaiya College of Engineering, Vidyavihar
4. Thakur Ploytechnic College, Kandivali
5. MPV Valia College of Commerce, Borivali
6. Sathaye College, Vile Parle
7. Tolani College of Commerce, Andheri

8. MPSP Singh College, Bandra
9. Chetna College, Bandra
10. MVLU College, Andheri
11. A.D.Kale College, Kandivali

We have also tried to provide myeducationguide to library of many colleges including SIES college of Management Studies (SIESCOMS), Nerul who has played an active role right from the inception stage of this newspaper. I take this opportunity to thank them.

I am looking forward for lots of advertisements from you to support the cause of this newspaper, to meet college demands and to add many more colleges in the list mentioned above. Our basic fabric of society is very strong. We still believe in the concept of giving back to the society and our newspaper also believes in this moral value system. I am confident that together we would be able to provide our children a better knowledge on career option so that they could make a good choice.

Myeducationguide will strive hard to fulfill its objective by providing you the information regarding different career options which are less known but are equally in demand with regards to jobs. In this

edition as promised we are trying to cover career options in Veterinary Science. I am pleased by the support of articles that we have been able to gather. I would like to give a special thank you to Dr. Atul Joshi, General Manager, Lyka Exports Limited for helping us to collect articles on VET. I would also like to thank all the other veterinary doctors who are the guest writers for providing us the valuable information from their busy schedule.

I am equally eager to know from you the career topics that you wish this newspaper should cover. We could try to incorporate these career topics in future edition. I look forward for your email.

P.S. Articles are invited on Banking & Insurance, Films & Advertising and Fine Arts as career options.



Jyotsna S. Kadam
editor@myeducationguide.in

A BRIEF INTRODUCTION OF VETERINARY SCIENCE

Veterinary profession is one of the most ancient and noble professions known to mankind. Man first started domesticating animals around 25000 BC and nearly 17000 years later he first learnt to cultivate the land

Modern Veterinary Education started with the establishment of Veterinary colleges at Leons and Glasgow (UK) in the year 1700AD. In India, the first Veterinary College started in 1886 in Bombay.

The present Veterinary education and practice is based on Allopathic system of Medicine and the pattern is uniform in all the countries. Thus a Vet doctor who has passed out from any college in the world can have a global career.

Veterinary syllabus basically includes subjects dealing with Animal health, viz Medicine, Surgery, Gynaecology, Pathology and other prerequisite subjects. However, subjects such as Genetics & Breeding, Nutrition, and Management etc, which deal with animal production, are also given equal weightage. Thus Veterinary graduate doesn't remain merely as a hospital oriented doctor, but can diversify into other areas in Animal husbandry sector.

There are 36 Veterinary colleges and six Veterinary Universities in India. Undergraduate course is of five year duration after 10+2 level leading to

BVSc& AH degree. Post graduation in different subjects leading to MVSc and PhD degrees are offered in most of these institutes. Indian Veterinary Research Institute is National premier Research and PG institute and is world famous. Veterinary Council of India oversees the standards of Veterinary Education and registration of Veterinary practitioners.

Animal husbandry is one of the important sectors which contribute 9.2% GDP to our economy. Nearly 31.27 % of Agricultural GDP comes from animal sector. This is by way of Food (Milk, Meat, Eggs), valuable products (Wool, Skin, By products), Energy and fertilizer (Manure), Power (Traction, transport and Agricultural operations)

Animals are also used for watch and guard, crime detection, companionship, Research and Manufacture of vaccines etc. Wild life is now recognized as keepers of environment.

The objectives of Veterinary Science are:

- To maintain animal life in good health and enhance their productivity.
- To prevent diseases and health hazards to humans which are originating in animals
- To increase the knowledge in

human and veterinary medical sciences.

Presently State and Central Govts are the main employers of Veterinary graduates in India. Tens of thousands of Veterinary institutes that include Polyclinics Hospitals, Dispensaries, Aid centers, Laboratories, Farms, are manned by Vets/ Diploma holders. In addition

Veterinary graduates/ specialists are employed in

- i) Dairy Co operatives (India is Top milk produces in the world)
- ii) Poultry Industry (Rs. 33000 Crore industry in India)
- iii) Veterinary Pharmaceuticals, Veterinary Biological, Animal feed manufacturing, Food processing and Export industries, etc many of which are either MNCs or having foreign collaboration
- iv) Veterinary graduates are employed in Armed forces (Remount Veterinary Core at the entry rank as Captain), Banks and Insurance companies.
- v) Veterinary graduates can also start their consultancy practice like medical doctors. This avenue is still not fully explored but holds great promise for the career
- vi) Veterinary graduates can pursue post graduation in other countries like USA, UK, Australia,

Canada and ultimately make a career there

As per norms laid down by National commission on Agriculture, there is a shortage of nearly 20,000 Veterinary graduates in India. The present rate of output of graduates

per year is less than yearly retirements. Thus while Animal husbandry sector is registering high growth every year, there is increasing shortage of Veterinary doctors year by year. Several state Govts have opened short term Diploma courses of 9 to 10 months to bridge the manpower gap. But this is a dangerous step since wrong treatment of animals will lead to formation of toxins and drug residues which will affect man through milk, meat and eggs. It is precisely for this reason that export of animal products from India badly gets a setback.

Veterinary science is dynamic, and the profession offers best career opportunities both academically and financially, and in India or abroad.



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ABROAD ASK OUR EXPERTS AT
abroad@myeducationguide.in

STUDY ABROAD NEWS

- **Mr. Raymond Wallace**, Executive Director of International Programs officer from *California State University East Bay* is visiting Mumbai on 5th, 6th & 7th August. An interview will be conducted in hotel Renaissance, Powai. Interested students in this university can email us at feedback@myeducationguide.in & can contact us 022-26707035.
- **Ms. Courtney Wallace**, Senior Admissions Counsellor from *Missouri University of Science & Technology* is visiting Mumbai on 19th August 2008. The representative of the university will conduct interview & presentation between 9.30-11.30 a.m. in Education Abroad Counselling Centre, Andheri (W). Interested students can email at feedback@myeducationguide.in along with their contact details. You can also contact us at 022-26707035.
- **India, US sign pact to double number of visiting students**

New Delhi: India and the US has signed a pact to strengthen their educational ties by doubling the number of students and researchers who can visit each other's country and make the Indian government an equal partner in a flagship scholarship programme. Foreign Secretary Shivshankar Menon and US ambassador David C. Mulford signed the pact that will double scholarship funds awarded annually to \$5 million and make the Indian government a full partner along with its American counterpart in managing and financing the scheme. The Fulbright Foundation, that earlier administered the programme, will now be called the "US-India

contd. on page 4 ...

Q. My father is a businessman and we have a family business running for more than 25 years. Is this a strong reason of me coming back to India for my visa purpose? Sohil Sunesara, Mumbai

A. Yes, your family business of 25 years can be one of the reasons of you coming back to India. Besides your strong family bonding, your investments and your long term goal could be the other reasons.

Q. Which is the safest country to get student visa? John D'souza, Mumbai

A. Being a counsellor first, I would suggest you to think and know why you want to go abroad. Based on your question, I assume that you feel it would be difficult for you to make a career or succeed in your home country. There could be many factors for you think likewise. However, I do not agree with this type of thinking (whatever the reason may be?). It is always important to know one's strength and weakness, limitations and what one would gain from foreign education courses. Since the investment involved in foreign study is always much more than that you spend in India, one has to make a calculated decision to get better returns on your investment and to make one's career in the selected program. I would still answer your question. According to me, Singapore, Dubai, Malaysia, China and Russia are comparatively easy for visa purposes.

Q. I am a mother of 17 year old boy and a divorcee. I want to send my only son to USA for study purpose and would also like to join him during his study in USA. Is it possible for us to go together?

A. Yes, it is possible for you to join your son in USA after he secures his student visa. I could suggest you to apply for a F2 visa based on the intention that you have expressed in your question above. However, there could be a possibility of your son getting US visa and you a refusal. I am nowhere hinting that your visa chances are difficult. Hence, please do not misunderstand my statement. I do believe that you can get visa approved. However, I want to advice you to have a backup plan in place in case of your visa rejection. You could reapply again for visa in case of visa rejection but that could take some time and also in that case you may have to take a re-look on your profile.

Q. I have experienced your counselling for my daughter and I am quite impressed by your personal approach that you offer for every student. I have suggested your name to quite a few of my friends and relatives. I would again need your help for my son. I and my wife are green card holders at present and we are presently staying in US. My son is in India and does not have a green card status as he was above 18 years when we received this status. I would like my son to join me and pursue his MBA here. He has completed his Bachelors of Engineering from Mumbai University in year 2007. Is it possible for him to get US visa? Mr. Agrawat, USA

A. Mr. Agrawat, thank you for your kind words and I hope to continue my passion for counseling in the same way in future.

I would suggest that the best approach would be for you to sponsor him directly for US resident. Thou it can be a time consuming process but it would

be worth for your son at the end. I can try to help him in his counseling process but as you all have migrated to US it could be difficult for your son to get F1 visa.

Q. What documents do I have to submit for my US visa?

A. I assume that you have paid your US visa fees to HDFC bank listed on the VFS website and have also paid the SEVIS fee. You need to submit DS 156, DS 157, DS 158, Visa appointment letter, Passport copy, I-20 copy and SEVIS fee confirmation copy at least 3 working days prior to your visa appointment date. Please carry the HDFC fee receipt along.

Q. What all documents do I have to carry along on my US visa interview appointment date?

A. You need to carry all original documents. Here is the brief visa checklist:

1. Original signed I-20 of the university that you wish to attend
2. HDFC fees receipt
3. SEVIS fee confirmation
4. Visa appointment letter

contd. on page 4 ...



Mr. Richard Lasrado

- Director, Education Abroad Counselling Centre.
- MBA with more than 9 years of counseling experience.
- Counseled more than 2000 plus students.
- Has met foreign universities from USA, UK, Canada, Australia, New Zealand, Singapore, Malaysia, etc during the international workshop to understand the parameters for admission and scholarship.

SEND YOUR ARTICLE ON STUDY ABROAD CAREER OPTION AT article@mveducationguide.in



EDUCATION ABROAD COUNSELLING CENTRE USA VISA STUDENTS

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contd. from page 3 ...

STUDY ABROAD NEWS

Educational Foundation” awarding “Fulbright-Jawaharlal Nehru Scholarships and Grants”, the external affairs ministry said in a statement.

► Manipal University to setup permanent campus in Dubai

Manipal University will soon setup a permanent campus in Dubai to reinforce its market position in the United Arab Emirates (UAE). Mr. B. Ramjee, Director of Dubai campus of the varsity said, “The permanent campus will be ready within 12-15 months and will accommodate about 6000 students. Extensive laboratories and libraries would be a feature of the new building. This will help us build as the largest private Indian educational institution in the UAE”.

A host of new courses in the field of Engineering, Pharmacy, Dentistry, Nursing and Hospitality will also be introduced later this year at the varsity. Today, the institute has more than 1700 students. Manipal University has 20 constituent colleges that offer over 180 courses across 13 streams including Medicine, Dentistry, Engineering, Nursing, Allied Health, Pharmacy, Life Sciences, Management, Mass Communication, Information Sciences, Hotel Management and Regenerative Medicine besides several others.

► India-Canada Studies certificate introduced at Canadian varsity

Toronto: To develop a good understanding of the culture & history of India and its Canadian Diaspora, the University of the Fraser Valley (UFV) (Vancouver), through its Centre for Indo-Canadian Studies, will introduce a new one-year, 30-credit certificate program in India-Canada Studies this September. “We have designed the curriculum so that it crosses various disciplines,” said Satwinder Bains, Director of the Centre and Professor with the varsity’s Social Work and Human Services Department. The certificate program will cover topics such as History, Geography, Anthropology, English, Film, Art History, Religious Studies, and the Punjabi language

contd. from page 3 ...

USA VISA QUESTIONS

5. Passport
6. Bank Statements of at least 6 months or more
7. Last 3 years IT returns
8. All investments
9. Other acceptances and rejects
10. Test scores
11. All mark sheets and degree certificates
12. All other relevant documents like work experience certificate, correspondence with the university, etc.
13. Property documents

Q. Congratulations Sir! I am happy to know from my sister that you are now on a panel of guest writers for

“MyEducation Guide”. I want to wish on this occasion huge success to you and the newspaper. By the grace of god and by your blessings, I have been able to get a good job in US as a network engineer after my education. I want to bring my sister here as well for her further education. She has registered with you for your counseling process. I am little worried about her visa and wish to know if my being in US affect her visa chance? Mr. Abhishek Paul, USA

A. Hi Abhishek, I am happy to know that you have been able to get a good job in USA after your education. I wish you the very best for your future!

Your sister’s visa chance will not be affected with your H1 status. The visa case has to be presented well in her case and I would take care about it later during the visa counselling process. As you would be aware that students are eligible for OPT in US and the new system allows students 29 months of OPT. Hence, you working in US will not affect her visa chance. Also the new system has allocated 20,000 work visas for students only besides the general category. Hence, I believe this is the best time for students to study in USA and get some international exposure before coming back to India.

SPECTRUM OF OPENINGS IN VETERINARY MEDICINE

Veterinary medicine offers a broad variety of career opportunities. When an animal is sick, the disease must be correctly diagnosed and the patient should be given appropriate treatment. Accurate diagnosis frequently requires the use of laboratory tests, radiography (X-rays), and specialised equipment. Treatments may involve a number of procedures including, for example, emergency lifesaving measures, prescription of medication, setting of fractures, performing surgery, or advising the owner on feeding and care of the patient. Veterinarians are now also frequently advising clients on behavioural and psychological problems that often arise in pets confined indoors. As well as traditional veterinary medicine, some veterinarians are now using alternative veterinary medicine including acupuncture.

In India, small or companion animal population is on the rise. Awareness in owners is also increasing. There is a need of specialisation in veterinary field which ultimately brings good career opportunities for a small animal practitioner. Veterinary graduates or Post Graduates in small animal practice can specialise in various areas like their human counterparts. Also a small animal practitioner can work under NGO’s working for stray animals. There is a big role for a veterinary graduate in social education by delivering talks on pet keeping, control of zoonotic diseases and pet therapy. He can also work in co-operation with various kennel clubs for breeding high pedigree breeds A

veterinarian in small animal practice can run lodging & boarding of pet when people are required to go on vacations.

A veterinary graduate can open a small animal clinic. As a general practitioner, he is required to treat various ailments,



Dr. Neha Wakankar

M.V.Sc. Vet Ophthal (Cataract Surgery)
Practicing Veterinary Surgeon, Mumbai.

perform periodic vaccinations and deworming, advice on feeding and breeding etc. He is the man immediately available for emergencies. In short, he is the family doctor for the pet.

As specialists, many new horizons are opening up since the demands from pet health care are ever increasing. Some small animal practitioners have earned acclaim in their respective field by virtue of their expertise, experience and persistence and not necessarily by their degree. Following areas may be avenues for future veterinary specialists.

- Small Animal Surgeon- General Surgeon-performs all general and soft tissue Surgeries/Endoscopic

surgeon/Orthopaedic surgeon

- Ophthalmologist- eye specialist
- Anaesthesiologist- anaesthesia specialist
- Imaging Specialist- Great demand for imaging exists in small animal practice by way of X Rays, Ultrasound, CT, MRI, Nuclear Imaging etc
- Dentist
- General Physician
- Dermatologist-Skin specialist
- Critical care specialist
- Nutritionist
- Animal Behaviour Specialist
- Gynaecologist- He/ she can work for different infertility conditions and Artificial Insemination.
- Cardiologist-As the life expectancy in pets is increasing as also several new breeds are introduced, the information in this area needs to be substantiated.
- Endocrinologist- There is increasing number of cases in Hormonal disturbances in Small animal practice, such as pseudo pregnancy, Diabetes etc.
- Small animal Pathologists- can run a Pathology laboratory and carry out different laboratory tests for animals.
- Parasitologist- can work for controlling different parasitic diseases in small animals also can advise on mass pest controls of pet environment.
- Microbiologists- can study different microbes affecting animal health and suggest remedies.

With this wider spectrum of new openings, young graduates are taking up to small animal practice in increasing number.

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GMAT TUTORIAL

THIS IS A TWELVE PART SERIES COVERING MAJOR TOPICS OF CET (MBA), CAT & GMAT MATHEMATICS. THIS IS THE SECOND PART.

In this session we will be looking at one of the most important topics in GMAT, Integers.

An integer is any number in the set $\{ \dots, -3, -2, -1, 0, 1, 2, 3, \dots \}$.

✦ Properties of number zero:

✓ The integer 0 is neither positive nor negative.

✓ 0 is smaller than every positive number and greater than every negative number.

✓ 0 is an even integer.

✓ 0 is multiple of every integer.

✓ If n is any number, then $n + 0 = n$ and $n \times 0 = 0$. Division by 0 is not defined.

✓ Conversely, if the product of two numbers is 0, at least one of them must be 0.

$$ab = 0 \Rightarrow a = 0 \text{ or } b = 0$$

✦ Properties on number one:

✓ If n is any number, then $1n = n$, and for any number $n \neq 0$, $n \times \frac{1}{n} = 1$

✓ Multiplying or dividing an expression by 1, in any form, does not change the value of that expression.

✓ 1 is divisor (factor) of every number.

✓ 1 is smallest positive number.

✓ 1 is an odd integer.

✓ 1 is not a prime.

Factors, Multiple, Division Rule:

✦ If a and b are integers, the following four terms are synonymous:

a is divisor of b

a is factor of b

b is divisible by a

b is multiple of a

They all mean that when b is divided by a there is no remainder (or, more precisely, the remainder is 0).

For Example:

3 is divisor of 12

3 is factor of 12

12 is divisible by 3

12 is multiple of 3

✦ For any division:

$$\text{Dividend} = \text{Divisor} \times \text{Quotient} + \text{Remainder}$$

✦ How to recognize MULTIPLES of 2, 3, 4, 5, 6, 8, 9, 10, 12 & 15

2 : Last digit is even

3 : Sum of the digits is a multiple of 3

4 : Last two digits are a multiple of 4

5 : Last digit is 5 or 0

6 : Number is multiple of 2 & 3

8 : Last 3 digits is a multiple of 8

9 : Sum of digits is a multiple of 9

10 : Last digit is 0

12 : Number is multiple of 3 & 4

15 : Number is multiple of 3 & 5

Even and Odd Numbers : Integers that are divisible by 2 are called even numbers. Integers that are not divisible by 2 are called odd numbers. Even numbers are expressed as ' $2n$ ', while every odd numbers can be expressed as ' $2n-1$ ',

where n is an Integer. Every odd number can also be expressed as a difference in squares of 2 consecutive whole numbers.

Prime numbers: A prime number is a positive integer that has exactly two different positive divisors, 1 and itself.

For example 2, 3, 5, 7, 11, 13, 17 & 19 are prime numbers. 15 is not a prime number because it has four positive divisors 1, 3, 5 and 15. The number 1 is not a prime number since it has only one positive divisor.

Every integer greater than 1 either is prime or can be uniquely expressed as a product of prime factors.

For example,

$$14 = 2 \times 7 \quad 81 = 3 \times 3 \times 3 \times 3 \quad \& \quad 484 = 2 \times 2 \times 11 \times 11.$$

✦ Every integer has a finite set of factors (or divisors) and an infinite set of multiples.

The factors of

12: 1, 2, 3, 4, 6, 12

The multiples of

12: 12, 24, 36, 48, 60, 72, 84, 96 ...

Highest Common Factor (Greatest Common Divisor):

Highest Common Factor of two or more than two numbers is the greatest number that divides each of them exactly i.e., without any remainder.

Lowest Common Multiple:

The least number, which is exactly divisible by each of the given numbers, is called their LCM.

Property of HCF & LCM:

For any two given numbers, product of two numbers is equal to the product of LCM & HCF of the two numbers.

$\text{HCF} \times \text{LCM} = \text{Product of two numbers.}$

Ex. 12, 18

Lets look at some examples to make learning more effective.

1. If the sum of three consecutive integers is less than 75, what is the greatest possible value of the smallest one?

a] 23 b] 24 c] 25 d] 26 e] 27

Soln: Rather than solving it by algebra, lets start with option choices:

If the smallest number is 25, the three numbers will become, $25 + 26 + 27 = 78$ which is not less than 75.

If we take the smallest on to be 24, the numbers will become, $24 + 25 + 26 = 75$, which is not less than 75.

Lets try 23, the numbers will become, $23 + 24 + 25 = 72$, which is less than 75, Hence our answer is (a)

2. If $2 < x < 4$ and $3 < y < 7$, what is the largest integer value of $x + y$?

a] 7 b] 8 c] 9 d] 10 e] 11

Soln: Now how many on you have marked answer as $3 + 6 = 9$, which is not correct. Because question says largest integer value of $x + y$, nowhere it is mentioned that x and y are integers. So we can take x and y integers also. So if we take x and y as 3.5 and 6.5, we can get the largest total as 10. Hence the choice is [d].

contd. from page 1 ...

DAIRY ANIMAL PRACTICE AN EXCITING VETERINARY PROFESSION

fact that the contribution of dairy sector into national GDP is more than wheat and rice taken together. Thanks to the success of Operation Flood, the Indian dairy sector witnessed rapid development during last 40 years, during which the cooperative movement led to establishment of chain of dairy cooperatives milk collection centers and processing centers. Ultimately India achieved the distinction of being the largest milk producer in the world. This was possible due to participation of a large number of veterinarians in taking care of health of animals and genetic improvement through artificial insemination.

Over the years the role of veterinarians in food animal practice has changed radically from sick

animal treatment to 'business consultant' to the farmer. This role is very challenging and requires training of veterinarians on not only various aspects of animal and veterinary sciences but also other aspects such as using PDA/ computers for animal performance recording, data warehousing and analysis to predict disease and performance related problems. He or she has to work as team leader to organize the development extension services to the farmers. He or she has to set up the intervention and achievable targets for production, fertility and farm economics and then is required to work in close cooperation with the farmers. An important area of his consultancy is optimizing feeding program for dairy animals so that the cost of milk production is kept to acceptable levels. In order to ensure quality of the milk, he is required to oversee that the animals are kept healthy and disease problems are prevented in most

economic way. For this he has to understand the relation of the disease or production problem with important factors such as feeding, management, housing, etc. For this he is required to carefully analyze data so he needs to develop computer skills.

In order to diagnose the disease at an early stage, he has to undertake screening of the animals, for which he is trained in the field of microbiology, biotechnology, molecular biology and epidemiology. Some of these diseases are extremely important from public health point of view. For example, the veterinarian is required to ensure that the animals are free from tuberculosis else the organisms may excrete in milk or pollute the environment, which can cause problems in contact or consumer human. In order to ensure that milk produced is of high quality and safe for human consumption the veterinarian has to ensure that no unnecessary drugs, antibiotics or

hormones are administered to animals. You will agree that treating a sick patient is extremely easy than maintaining animals healthy.

With new technologies coming up and applied to animals, the large animal practitioners work has become more interesting. For example, he is now trained in cultivating high quality grasses and processing of crop residues so that animals are not fed on costly grain diet, so has to work with farmers to prepare silage / haylage in order to preserve and value-add forages. This is important when the farmer is rearing high producing animals. World over veterinarians are now getting involved in high technology assisted reproduction programs that involve on one hand production of semen from progeny tested bulls, which is a highly scientific activity. In many countries large animal practitioners perform very challenging follicular aspiration technique on high genetics cows and buffaloes.

contd. on page 6 ...

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A FIRST HAND EXPERIENCE FROM A PRIVATE VETERINARY PRACTITIONER

Choosing veterinary science was a natural choice for me as I had seen this field closely from the childhood days. My father is a vet himself, though he did not treat animals but was into pharmaceutical companies who manufactured poultry and livestock medicines. I always had a liking for animals and use to give shelter to stray pups and kittens at home.

As student we had a good life at the Bombay Veterinary College. We learn expertise in animal science, also learned how to work with animals, do surgery, and laboratory tests, using hi-tech equipments etc.

Apart from studies we took part in sports and other activities. Internship is the most important part of the student's life in veterinary studies. Field

veterinarians teach a lot of things which you do not learn at the college. Various camps are organized in the rural areas which are great fun to work at.

Vet education is all about hard work. Lot of physical activities involved when you handle animals especially when it comes to a cow or a buffalo. You need to be quite alert when treating sick animals as they could turn hostile due to pain. This is a field for only those students who are ready to put in hard work!

I had interest in treating pets so I decided to open a clinic for pets. Real challenge is getting a place to start the clinic. To buy a space to set up a clinic was difficult so I started with a Mobile Clinic which gave a good start for my career. Later I bought a place where I run my clinic

presently. If you put in sincere effort and keep your self updated with latest happenings in this field it is not very difficult to establish oneself.

For being a veterinarian one must have the following qualities. Having genuine love for animals. Aptitude and interest in the biological sciences are important. Scientific learning and undertaking of animals is required. Working with large animals requires physical stamina and quick body reflexes to tackle the animal's moody behaviour. Other qualities are: - ability to inspire confidence in animals; power of observation and self-reliance; adaptability, indifference to the occasionally disagreeable conditions of work, the ability for team work.

An average veterinarian working

at a private clinic would earn a decent salary in the beginning but depending upon his/her skills it only gets better. Veterinary science is an ocean. From



Dr. Makrand Chousalkar
M.V.Sc
Private Practitioner

being a small animal vet or horse specialist or cattle specialist to poultry specialist or being a scientist or to work in pharmaceuticals, a veterinarian has a lot to choose from.

Thus all I can conclude is that if you adore animals, get affected to see them in pain and are ready to put hard work then this is the passionate career option for you!

contd. from page 1 ...

MY JOURNEY TOWARDS MY DREAM

I tried to concentrate more on my statement of purpose and other essay topics. This is an important advice that I would like to give to future entrants for GMAT to not get demoralized by a low score, as after all GMAT is only 20% of your application.

While preparing for GMAT I had to simultaneously prepare for my essays. I knew this would be a challenging task, however, I must say that nothing can stop you if you have the perseverance and the dedication to achieve the desired goal.

With EACC's efficient guidance I gathered all required documents in time and applied to the desired universities. Within less than a month of my application I got through to the University of New Haven and truly that was a Red Letter day in my life. Finally my dream of going to a reputed university had come true and I could foresee myself as an international M.B.A. student in the United States of America.

Though my first choice was California State University, I got the admission a little later but just before my visa interview date. Now that the admission process was complete I had to focus on my visa interview. In this case I decided to take the advice of the experts and this is where the EACC Counsellor was extremely helpful and his advice truly helped my cause.

He took 3 rounds of interviews wherein he asked me questions of all types, right from my purpose of study till my future course of action

and also predicted that the interview will be very short. I was actually surprised at the number questions that were put forward to me and when for the first time I undertook a mock interview with every interview my confidence level boosted up and just one day before the interview date I knew I could crack it without much difficulty.

As predicted earlier I had just a 35 second interview wherein the visa officer asked the most basic questions, and I finished the interview with flying colors. However I cannot take away the credit from the EACC team whose persistence in the mock interviews paid rich dividends.

This was the day where I felt that my dream has come true and my year long persistence has paid off. Truly I have learnt a few lessons while preparing for my admissions. Hard work and planning and organizing with the right tool always lead to success. For me EACC was the right tool and an extremely helpful guide, and together we paved a successful career path for a bright future ahead.

Helpful guidelines from a student perspective that assisted me in my admission process:

- First and foremost choose an international counseling centre. (In today's day and age you really require professional guidance especially if you are in full time employment).
- Next step once you have interacted with them choose your country of study and also your program
- Choose your program with future prospects and course material in mind, along with the list of universities.
- Once you have done the same

choose your final lists of universities in close consultation with your career counselor.

- Start preparing for GMAT, TOEFL or IELTS exams and also simultaneously start making preparations to collect documents such as sponsor letters, work experience certificates, reference letters, statement of purpose etc.
- Make a checklist of all documents required for admission and also set up a dead line by which you have to submit the same.
- It is important to take at least two weeks of leave before your GMAT exam. Once you have finished your exam and results are out, you will need to devote all your time to applying for the universities. It is advisable to keep in regular contact with your counselor during these times as there might be possibilities that lot of additional documents might be required for admissions in several colleges.
- Once you have completed all your procedures and submitted all your documents congratulate yourself for completing and submitting all your admission documents in time.
- Please do not get dejected if you have a few universities rejecting you, think that the best is coming your way.
- Wait for your results and hope for the best!!!!!!

Helpful guidelines for the all important parents

- Kindly remember that your child needs your unconditional love and support during this time and do not underestimate his/her talents as each child has a hidden potential that will blossom with the right time.

- Especially when one is preparing for GMAT and TOEFL exam, your child needs wholesome hygienic food for his/her nourishment

- My parents helped me prepare the exam timetable and also checked if I was sticking to the planned time-table. My mother's constant support gave me tremendous strength and confidence.

The EACC experience

In a nutshell my experience with my counsellor has been more than satisfactory and even during troubled times when my father was hospitalized, not once did they make me feel that I was not giving enough time to the admission process.

Hats off to Mr. Richard Lasrado and his team for doing such a marvellous job and helping me shape up my career for a better tomorrow. If you would like to contact me for any help or guidance please do so via EACC and I will be more than happy to oblige.

contd. from page 5 ...

DAIRY ANIMAL PRACTICE AN EXCITING VETERINARY PROFESSION

So you can imagine how exciting is the veterinary profession for aspiring and talented students and within that the dairy animal practice brings you not only satisfaction that you are participating in rural development, helping small farmers to come out of poverty but also enables you to satisfy the thirst of getting trained and practice simple as well as complicated but wonderful technologies. With more than 220 million cows & 95 million buffaloes as the clients, you can imagine the scope for practice leading to generation of wealth for the farmer as well as self.

contd. from page 1 ...

ENTER THE AMAZING WORLD - AS A VETERINARIAN

both in application and research.

After completion of 5 years of graduation and additional two years of post-graduation, one can enter the academic or research or extension wing in various veterinary colleges, institutes and universities. Job opportunities also exist in para-veterinary staff training schools and various clinical, diagnostics and investigation centres.

In Centralized sectors, veterinarians are needed in the Army as Remount Veterinary Corps and in the BSF/

Police. Similarly one can join Indian Council of Agricultural Research (ICAR), Ministry of Agriculture as well as at Quarantine units, Central zoos and Wildlife centres.

In the State Government, a veterinarian may seek a job in veterinary hospitals, organized state farms, poultry farms, meat/milk processing plants, polyclinics, disease investigation and control centres, biological product units and public health laboratories.

At the District level, a veterinarian may work in slaughter houses, animal dispensaries, public health laboratories and local zoos.

There is tremendous scope for a veterinarian in the private sector. He/

she can join various national/multinational pharmaceutical companies wherein special veterinary divisions exist. A veterinarian can work in commercial dairy farms, commercial poultry farms and hatcheries and commercial breeding farms. Veterinarians may also enter equine practice at race clubs and stud farms.

Veterinarians can avail job opportunities in corporate bodies like National Dairy Development Board (NDDB), Insurance companies, various banks (NABARD) and veterinary instruments and equipments' industry. Private Biological product units also need veterinarians.

Self employment too has a lot of

scope for a veterinarian. A veterinary practitioner can choose from varied disciplines like small animal practice in urban areas, large animal practice in rural areas, specialized diagnostic services like Radiography, Ultrasonography, Endoscopy, Laparoscopy, etc especially in metropolitan cities. Veterinarians can start a consultancy or work as partners. They can start a feed processing industry, milk collection co-operative society, diagnostic pathology, and biochemistry and microbiology laboratories.

After graduation and post-graduation veterinarians can go abroad to pursue a Masters or a PhD. There are also job offers for veterinarians abroad.

contd. from page 1 ...

CAREER BUILDING OPPURTUNITIES IN VETERINARY WORLD

pharmaceutical companies where they handle the production of vaccines or development of animal feeds & fertilizers.

• Animal Husbandry

Veterinarians in the animal husbandry Dept. of state Gov. / central Gov. also supervise periodic inoculation & vaccination of animal in the farms & market & to implement various Schemes for welfare of farm animals

• Academics & Research

There are opening as lectures at Veterinary colleges for those with a PhD in veterinary Sciences Veterinarian's scientists can work in Research institutions/ animal welfare Societies. Their work include Dealing with Pharmaceuticals / byproducts

Livestock feed/ fodder

Immunization of animals

Modern nutritional inputs on animal health

Animal genetics & breeding

Animal pathology

• Equine management

In today's competitive horse industry those who wish to become successful professionals needs to master as many skills as possible when preparing themselves for a carriers,

Veterinary is the best option. Their duties generally include assisting with moving & restraining animals, assisting with administrating medications & treatment under the supervision of the veterinarians. There are numerous jobs at different skill levels available at racetracks, horse farms& veterinary clinics not only for vets but also for other peoples.

• Centralized sectors

- 1) There are bright career prospects for veterinary doctors in the Army Remount Veterinary Corps (RMC). Army veterinarians works on three issues
 - Public health & food safety for the troops
 - Support is provided for a tremendous no. of military working dogs used for sentry & patrol duty as well as bomb/ drug detection.
 - To provide health care for pets belonging to members of military their families & retired military.
- 2) BSF/ police- To look after horses, dogs, camels etc- in the forces
- 3) ICAR- Co-ordination & funding of animal based research
- 4) Dept. of Animal Husbandry & Dairying, ministry of Agri. for Advertisement Management & co-ordination of Vet. Services.
- 5) Quarantine units- These are internal check posts preventing entry of exotic diseases like Mad

cow, Influenza.

- 6) Central farms- Same as state farms & sperm stations they also conducting training

• Wildlife Science

On Biology & Management, including ecology & conservation of wild animals, wild life scientists study native & exotic birds, mammals, reptiles & amphibions in natural or created environment, their biodiversity & human -wild life interactions.

• State government

1. Semen banks/ Sperm stations- Quality bulls are kept
2. Poultry farms-Managing egg farms, hatcheries, Chick rearing units
3. Polyclinics- where specialized service like surgery, special diagnostics, specialized treatments
4. Disease investigation centre-Survey disease profile & investigate any occurrence of a major disease
5. Biological products & vaccine institutions – Prepare control & distribute vaccines & biological diseases
6. Eradication Schemes / check posts/ vaccination camps
7. Public health laboratory-investigation of disease transmission from animals to man & vise versa.

• Extension Officers

Veterinary doctors are required for extension programme at block level; they educate & encourage livestock farmers to build up the quality of their animal stock. They also advise on animal farm management & animal health problem

• Local bodies/ Municipalities/ Panchayats

1. Slaughter houses / Cattle pounds/ Public health lab.
2. Zoos & wildlife centers.
3. Animal resource development under Panchayat Raj.

• Banking sectors

Veterinarians also find employment with banking sector as Agricultural officer through competitive examinations. Many national & international banks, institutions venturing in animal insurance plans, as the cost of animal increasing day-by-day, companies & organized dairy being filled by banks & institutions to cover the risk factor & same applied for protection factor.

• Insurance

Veterinarians also find employment with insurance Companies too. For Assignments like insurance farm Companies, the future prospects for young veterinarians are ample in the field of insurance sector & job opportunities being published in national dairies. By almost all the national & international companies taking application from veterinarians for the health certificates.

QUALIFICATION FOR ADMISSIONS TO VETERINARY COLLEGES

Veterinary Council of India

The Veterinary Council of India is a statutory body of the Government of India framed under an Act of Parliament i.e. Indian Veterinary Council Act, 1984 (52 of 1984). This is an Act to regulate Veterinary practice and Veterinary education. The Act stands extended to all the States of India except Tamilnadu and J&K as on date. Only those who possess recognised veterinary qualification and registered can practice in the country.

Qualification for admission to a Veterinary College in India

A candidate for admission to the Veterinary Course must have obtained not less than 50% of the aggregate marks in English, Physics, Chemistry & Biology, (i) at the qualifying examination (or at the higher examination) in the case of Veterinary College where the admissions are made on the basis of marks obtained at these examination or (ii) 50% of the total marks in Physics, Chemistry and Biology

taken together at the competitive entrance examination where such admissions are held for selection.

The candidates are normally admitted in colleges through competitive entrance examination. The entrance examination of the State Universities is conducted after the qualifying (12th or Plus 2) exam is held by the respective Board/ University/examining body of the States. Some States hold Joint Entrance Examination along with medical, engineering and other

professional courses.

Duration of the Course

The duration of the undergraduate course i.e. Bachelor of Veterinary Science & Animal Husbandry (B.V.Sc. & A.H.) is five academic years including compulsory internship of six months duration. The degree awarded on completion of the training period is B.V.Sc. & A.H. (Bachelor of Veterinary Science & Animal Husbandry).



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