

# Good general knowledge must to clear defence exam

**YOUR ACADEMIC DOUBTS CLEARED**

**ASK THE COUNSELLOR**

Shehre Banu

(Shehre Banu Kagalwala BSc, MA, PGDPC, Psychologist and Career Counsellor, Counselling for ADHD and Learning Disabilities; E-mail queries to [younghans@hmtv.in](mailto:younghans@hmtv.in))

I am a degree final year student. I have applied for the CDS 2014 exams which will commence shortly. My degree pre-final exam is also at the end of January. Please give me some tips to prepare for CDS exam as it is my dream to join the Indian Army?

- Manoj Reddy, Yaprul

Common Defense Service exam is held twice a year (CDS 1 is on Feb 9) by the UPSC for recruitment into Army, Navy and Air Force. A career in the Indian Army is exciting and adventurous. Intelligence is not the main requirement to pass this exam. They look for astuteness, presence of mind, good IQ level and awareness. Hence, a

methodical and systematic way of preparation with a lot of practice and revision is required to clarify this exam.

For permanent commission the exam consists of multiple choice objective questions on subjects including mathematics, general knowledge and English. Often candidates face problems in managing time while answering as only one minute, approximately, is allotted to answer each question. The methodical approach would be:

**Mathematics:** Start your preparation with mathematics as it's the highest scoring part of the examination and you have to

answer 60 questions right to clear this section. Focus on the most important topics like time and work, time and distance, compound interest, ratio and proportion in arithmetic and lines and angles, triangles, questions related to 3D structures such as cube, cuboids, cone, frustum of cone in geometry and linear equation in two derivatives.

onyms and antonyms). Practice the grammar rules (subject verb agreement, preposition, tense, pronoun, adjective, etc) on regular basis and solve practice exercises. Only 55 to 60 correct answers are needed to clear this part.

**General Science/GK**

This section is considered as the toughest paper of CDS which is incorrect because if you establish a habit of reading newspapers, magazines and books and watch news bulletin on regular basis, an-

swering current affairs is easy. In history section, movements during the revolt of 1857 and independence (1947), vedic period, Mauryan kings, Magadh kings are the main topics; in geography, mountain peaks, rivers, average rain, folk dances requires main focus; general knowledge about computers is also necessary. You can find more than five questions related to Indian Constitution in the exam. Proper knowledge of physics and chemistry of Classes XI

and XII is sufficient. In biology, you need basic science concepts, principles and their day to day application. Don't get into minute details.

If you want a break down of the syllabus topic wise then refer link: <http://mrunal.org/2013/06/studyplan-combined-defence-services-cds-booklist-strategy-free-study-material-previous-papers-cutoffs-physical-medical.html#368>

Practice previous papers to understand the marks distribution and also the pattern of the exam. Refer link: <http://cdsexam.com/cds-exam-previous-year-question-papers-download/> to download question papers of years 2009 - 2013. The papers are all in a pdf format.

Some best books to prepare for CDS written examination are

- CDS Exam Guide: Combined Defence Services Exam (Paperback) by Dason Rp is a book which covers all the subjects and is helpful for your preparation.
- Sanyukt Raksha Sewa Pariksha by R Gupta
- Asian Combined Defence Services Exams guide by R P Verma
- Oswaal solved papers of the last 10 years exam.



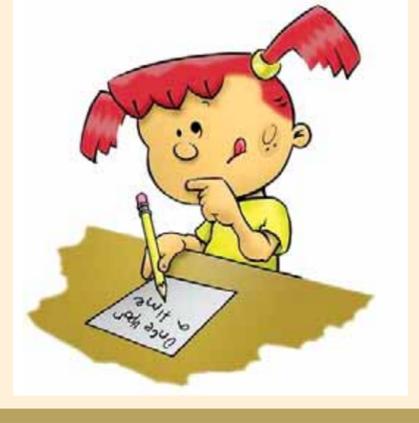
Common Defence Service exam is held twice a year

Best of Luck!

## Young Hans Essay writing contest

Explore your imagination with words by sending in your essays to Young Hans. Topic for this week is 'India of My Dreams' Students from Class V to Class X can send in essays. Three best essays will be awarded prizes worth Rs 500, Rs 300, Rs 200 depending on how good it is. Oh wait, before you start imagining, go through the set of hurdles you have to overcome.

1. The essay should not be more than 350 words
2. Inputs should not be taken from Google. We can track copy paste essays through our software.
3. Send your name, class, school name, phone number and photo along with the essay.
4. Your essay should reach us by January 21 by 6 pm
5. Essays can be sent by mail to [younghans@hmtv.in](mailto:younghans@hmtv.in) or can be sent by post to Essay Competition (mention topic), c/o The Hans India, Plot No 6, Anupuram Colony A S Rao Nagar, ECIL Hyderabad, Andhra Pradesh 500062. 040-49494545. It can also be hand delivered to the same address.



# How to apply for H1B visa?

I want to apply for a H1B visa, kindly guide me on how to go about it?

-P Sushmitha, Trimulgherry

It is the work visa/employment visa to the US, granted to an eligible and temporary worker. The H1B status requires sponsoring by a US employer who files a Labour Condition Application (LCA) with the Department of Labour, attesting to sev-

eral items, including payment of prevailing wages for the position, and the working conditions offered.

The employer must then file a Form I-129 petition plus accompanying fee of \$130 with the BCIS and unless specifically exempted under the law, an additional \$1000 fee to sponsor the H1B worker. Once the petition is approved, you are ready for the visa interview. Take online visa appointment at offi-



H1B visa is work visa

cial website for US visa appointment. ([www.ustravel-docs.com/in](http://www.ustravel-docs.com/in)).

To fill up the form for H1B visa application you need digital photographs with special format, information of your parents, address where you would stay in the US. When you go to the designated US consulate for the visa interview, carry your passport (and your old passports if any), photographs, the DS-160 visa application

confirmation page stamped at the VAC, the visa application fee receipts (applicable for application in US consulate in India), Visa appointment letter, Petition-based visa applicants (H, L, F, J, M, R visas) should also bring petition-related documents, and supporting documents, based on what kind of visa you are applying for. For detailed information refer link: [path2usa.com](http://path2usa.com)



## Literary fest at BITS

BITS Pilani-Hyderabad will host Verba Maximus: National Literary Festival on Feb 1 and 2 from 9 am onwards. For further details, log on to [www.bits-vm.org](http://www.bits-vm.org) or call Srujani on 77022-11772 or Karthik on 95421-29996.

EDN ALERT



## Ujjain

Just take a map of India and look for the town of Ujjain on it.

It is almost at the centre of our country. It was the capital of India a long time ago. It is also a sacred city. This city has been famous from ancient times for its great temple and great kings.

Mahakala is the name of the deity of the temple. It is in the form of a Linga. The river Sipra flows through the city. Pilgrims from all over the country visit this holy city.

They bathe in the holy river Sipra. They worship Lord Mahakala.

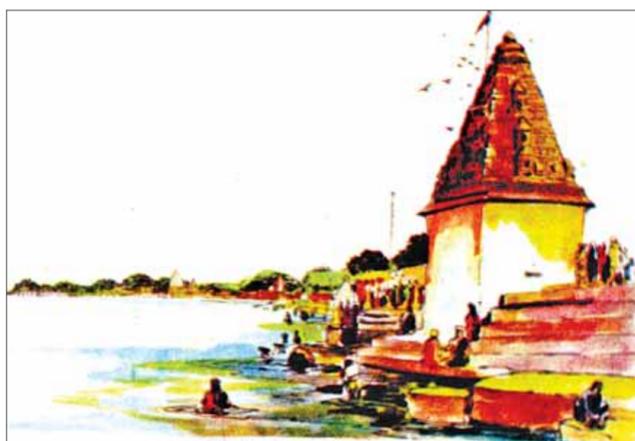
Lord Krishna, his brother Balarama and friend Sudama had their education here under their teacher Sandipani.

Many great kings ruled this city in the past.

King Vikramaditya was the foremost among them. The great poet Kalidasa was at the court of King Vikramaditya. At Vikramaditya's court there were nine great scholars. They were known as 'the nine gems of the court'. Kalidasa Day is celebrated here every year. Every twelve years, a mela is held in this place.

People in large numbers from all over the country gather here on the occasion, take holy bath and do worship.

(From Culture Course-BVB)



**Answer quiz, win prizes worth Rs 1,000**

Answer the five questions mentioned in the quiz on Page 2 and give yourself a chance to win cash prizes. Those with all-correct answers picked through a lucky draw will be awarded cash prize at the end of the week.

**I prize: Rs 500**  
**II prize: Rs 300**  
**III Prize: Rs 200**

## Bio-inspired devices to increase life expectancy, cure diseases

Students at St Francis College for Women, Hyderabad, present papers on bio-inspired devices

**PRATIMA SHANTAVEERESH**

It was interesting to hear IMSc and BSc students talk about how nanotechnology can increase life expectancy of an ailing patient; on microbes developing resistance to the chemicals which we use to kill them and about how biology and chemistry can eradicate several fatal diseases. The microbiology department of St Francis College for Women, Hyderabad, organised a national seminar on 'Bio-inspired

devices - An emerging trend in science' to give students a perspective of nanotechnology application to biology and medicine. Students got an overview of the most recent developments in the field.

Participants presented papers as well as posters on topics related to the theme. K Sai Priya, BSc final year student, presented a paper on bio-inspired medical devices. C Vidya from BSc final year spoke on bio-inspired devices used as anti microbial agents.

In her presentation, she explained how the microbes are developing resistance to the chemicals which we generally use to kill them. Giving an example, she said that mosquitoes earlier died of DDT but now, they have developed resistance towards it. She said that scientists are trying to develop chemicals that are eco-friendly, can be used in longer run and won't cause any side effects to human beings. Fareeha Saadi, from BSc final year focused on how biology and chemistry are inter-related and how scientists are using this combination to develop new ways to cure disease.

Ambili and J Nikita, both BSc second year students prepared poster on nanotech contact lens that detect blood glucose level. Purna and Ibukun, again from BSc second year showed how nanotechnology can be used to extend life of the patients de-



Poster on nanotechnology

tected with life threatening diseases.

When asked the reason behind choosing this topic for the seminar, Dr Supiya Sarkar, Assistant Professor, said that it was the latest topic in this field and this seminar would help bring awareness among the students.

The two-day seminar will end on Saturday.



Paper presentation in progress