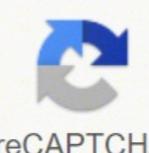


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1. Upanishad is about – Philosophy
 2. Ilutmish is from – Slave dynasty
 3. Gandhi started Styaghrah from- Champaran
 4. Defence minister in 1962 war- V.K Menon
 5. Who proposed Preamble- J. L Nehru
 6. Thomas cup from game of- Badminton
 7. Caddie term related to- Golf
 8. P.V. Sindhu defeated — to win Indian Open- Carolina Marin
 9. The Old Man and the Sea' book noble laureate – Ernest Hemingway
 10. The international date line passes through- Bering Strait
 11. Prairies grassland- North America
 12. Nobel peace prize 2016 – J. M. Santos
 13. Didn't Got noble prize posthumously – Gulzar Lal Nanda
 14. Satpura range- Maharashtra
 15. Baglihar Dam- Chenab
 16. Keolado national park- Rajasthan
 17. Mohiniyattam Dance- Kerala
 18. Most abundant gas of universe- Hydrogen

**Saidai, Sa. Duraisamy's
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4. The difference between Compound Interest and Simple Interest at the same rate of interest R percent per annum on a amount of 15,000 for 2 years is 96. What is the value of R?

	Hydrogen and helium, the lightest two gases, weigh so little that helium balloons and hydrogen dirigibles are able to float in the atmosphere. Hydrogen is a diatomic gas, and helium is a monatomic gas. Both hydrogen and helium are lighter than air.
13.	The first oil well in India was dug at:
Ans.	Dibrugarh The first oil well in India was dug at Dibrugarh . Crude oil was discovered here in late 19th century. Dibrugarh is known as the Oil City of Assam where the first oil well in Asia was drilled. The first refinery was started here as early as 1901. Dibrugarh has the oldest oil well in operation.
14.	Equator doesn't pass through which continent? A. Africa B. S America C. Asia D. Australia
Ans.	Australia
15.	In which layer of the atmosphere do Aurora Borealis appear?
Ans.	Ionosphere In the ionosphere, charged particles are affected by the magnetic fields of both Earth and the sun. This is where auroras happen.
16.	CTPS Thermal power is located in which city?
Ans.	Chandrapur Chandrapur Thermal Power Station is a thermal power plant located in Chandrapur Town in the Indian state of Jharkhand.
17.	Separation of the Judiciary from the Executive is enjoined by
Ans.	Directive Principle of State Policy Article 50 of Constitution of India is a directive principle of state policy. It gives a direction to the State to keep judiciary independent of the Executive, particularly in judicial appointments.
18.	First Afro-Asian Games held in Hyderabad played in which year?
Ans.	2005

14. According to the harmonic oscillator model, if the vibrational force constant of the chemical bond in diatomic potassium chloride ($^{39}\text{K}^{35}\text{Cl}$) is 84 N/m, what is the vibrational frequency (ν) of this molecule, in units of wavenumbers? (Choose the closest answer.)

(k)

A. 3 cm^{-1}
 B. 6 cm^{-1}
 C. 30 cm^{-1}
 D. 60 cm^{-1}
 E. 300 cm^{-1}
 F. 600 cm^{-1}
 G. $3,000 \text{ cm}^{-1}$
 H. $6,000 \text{ cm}^{-1}$
 I. $30,000 \text{ cm}^{-1}$
 J. $60,000 \text{ cm}^{-1}$

$\tilde{\nu} = \frac{1}{2\pi c} \sqrt{\frac{k}{\mu}}$

$\mu = \text{reduced mass of } ^{39}\text{K}^{35}\text{Cl} = \frac{35 \times 39 \text{ amu}}{35 + 39} (1.66 \times 10^{-27} \text{ kg})$

$= 3.1 \times 10^{-26} \text{ kg}$

$\tilde{\nu} = \frac{1}{2\pi(3.00 \times 10^10 \text{ cm/s})} \sqrt{\frac{84 \text{ N/m}}{3.1 \times 10^{-26} \text{ kg}}}$

$\tilde{\nu} = 376 \text{ cm}^{-1}$

Part III (7 questions, 35 points) - Questions selected from among the following topics:

Postulates and principles of quantum mechanics, Rigid rotator model for molecular rotation, Hydrogen atom (angular parts of wave function), angular momentum, spherical coordinates (Homeworks 5 - 7 and Problem Set 3).

15. Consider a particle of mass m in a box of length a in the following state:

$$\Psi = 1/\sqrt{2} (\Psi_2 + \Psi_4)$$

where $\Psi_n = (2/a)^{1/2} \sin(n\pi x/a)$

According to the postulates of quantum mechanics, what will be the outcome of a given (ideal) measurement of its energy?

(A) either $4 h^2/(8ma^2)$ or $16 h^2/(8ma^2)$ with equal probability, but can't predict the result of a given (single) measurement.

(B) definitely $4 h^2/(8ma^2)$

(C) definitely $16 h^2/(8ma^2)$

(D) $10 h^2/(8ma^2)$

(E) $14 h^2/(8ma^2)$

(F) $n^2 h^2 / (8ma^2)$, where n is any integer

(G) zero, since the particle's state is not a single eigenfunction of the Hamiltonian operator.

See Postulates (Ch. 4)
Slide #65 & p.122

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We have provided a step-by-step procedure to calculate your score as well as the assessment scheme below. A Name of examNumber of questionsMaximum For each correct answer, +3 points and -1 points are deducted for each incorrect response. Candidates who appeared in the computer-based test can control the card analysis of the applications easily. Answer key AFCAT 2022 day 1 2 3 To obtain an approximate estimate of their scores, candidates with anxious answering keys to the various exam experts. Questions from subjects such as English, general awareness, numerical skill, reasoning and attitudinal test. (Afcat 01/2022) To unload the common aviation admission test (Afcat 01/2022) candidates must follow the procedure shown below. Online to get the latest updates regarding the unofficial AFCAT 2022 response key and the official Afcat 2022 response key. NCC Special Flying Â¢ â € Â "10% of places on vacancies CDSE for PC and 10% of places on Afcat vacancies for SSC. Attempt score afcat = (3 points x total number of correct answers) Â¢ â € Â "(total number of wrong answers) Preparation for Afcat 2022? Third phase: following the previous steps, the PDF of the response key opens in a new tab. AFCAT 02/2020 Response code Â¢ â € Â "Shift Wise Afcat 01/2020 SHIFT WISE AFCAT analysis 01/2020 Response key Afcat Key 2022 FAQ Q Q1: Afcat provides the permanent commission for flight service ? Afcat Air Force Common Admission Test conducted by the Indian Air Force Exam Date 12 13 February 14 2022 Answer Key Afcat 01/2022 Answer Key Shift Morning Shift and Evening Shift official portal Afcat.cdac.in Check Online Afcat Answer Sheet 2022 Question Paper Solution Afcat Question Paper Solution 2022 According to the department concerned, the examination was conducted in two shifts. D4: How can I calculate my score using the reply key? The Afcat brand sheet shows the cut-off signs and scores obtained from Candidates can download the Afcat 2022 response key following the procedure below. Candidates are selected for the next turn based on scores obtained in the test and cut-off cut-off That test. Candidates can download the answer key from the link provided below, once released by officials. Official Portal Click here MPNRC Home Click here AFCAT Reply Key 2022Â¤Â¤AFCAT 1 2022 exam held from 12 to 14 February, 2022 was concluded. Latest news: The AFCAT 1 2022 exam was completed from 12 to 14 February 2022. Ans:No, is the short service fee provided through the AFCAT for the flight branch? The written exams of Flying Branch, Ground Duty Technical and Non-Technical are conducted as scheduled. Voice AFCAT Flying is 77 seats, GD Technical is 103 seats, GD Non Technical is 89 seats. Shift 1 from 09:45 to 11:45. Numerous AFCAT experts and coaching institutes release online a memory-based answer key. Applicants taking the exam can get the direct link here. Candidates may use the answer key to obtain their scores prior to the declaration of the AFCAT 2022 result. After that IAF AFCAT official homepage will open Then click on the career category and check the sol paper application (Ans key) link. With the help of the answer key, candidates can get an idea of their provisional scores on the AFCAT 1 2022 exam. We have provided a list of AFCAT scores from previous years for the convenience of the candidate. Air Force Common Admission Test for Flying Branch and Ground Duty (technical and non-technical) branch, NCC Special Entry. Candidates should familiarize themselves with the marking scheme of the AFCAT exam before calculating their scores using the answer key. All candidates appearing can download the paper application solution after being released by the IAF and some coaching institutes. No marks are given for untried questions. As it comes from various sources we collect information from all and in one place for applicants. Stay tuned to get AFCAT 1 Key 2022 from exam experts. AFCAT 2022 Shift Wise Exam Response Key in series. Each question brings 3 3 And any incorrect response 1/3 signs were deducted. Is there negative marking in the AFCAT answer key? AFCAT previous cut year off AFCATutoffAFCAT 1 / 2020153AFCAT 2 / 2019142AFCAT 01 / 2019133AFCAT 01 / 2018155AFCAT 01 / 2017150AFCAT 02 / 2016148AFCAT 01 / 2016132AFCAT 02 / 2015144AFCAT 01 / 2015126AFCAT 02 / 2014123AFCAT 01 / 2013144AFCAT 02 / 2012135AFCAT 0 201188AFCAT 01/201185 What happens after the AFCAT response key? First, download the AFCAT and EKT exam response key from the official website. Understand how the marking scheme works by referring to the above table.Add and deduce the signs following the formula below. Various coaching institutes such as the Adda247 defense, Byju exam preparation, Mania defense, TestBook.com and SSBCrackexams have released the AFCAT exam analysis and response key. Candidates must generate the letter of call for the AFSB interview by choosing the date of the interview and the Center on the official website (Afcat.cdac.in). Afcat The Indian Air Force conducts the AFCAT examination to recruit Indian nationals to fly branches in its organization. Dear Aspirants Reply Keys are not official and are available in video and PDF format. Candidates can appear for the AFSB interview once they pass the AFCAT exam. AFCAT 2022 CUTOFF The IAF determines the AFCAT examination cut-off each year. Question The paper solution will be made online after being released by the recruitment department of the Indian Air Force and some coaching institutes. AFCAT 1 Response Key Morning and evening Move for the 12th, 13th and 14th February 2022. The official response key will be available in PDF format and paper solutions by the exam experts will be available in both PDF and video format. 2nd step: click on the link the AFCAT 2022 response key on the homepage. NSA: We are not sure if the official AFCAT answer key will be issued or not, but the Commission will make AFCAT questionnaires, at the end of the entire selection process, including medical examinations and AFSB tests. It is released online, in pdf or video format. A computerized test consisting of 100 questions (multiple choice target). Hello friends, we are pleased to inform all candidates who have appeared in AFCAT 2022 "You can check AFCAT 1 Answer Key 2022 set or code-essay. As per official notification the admission test will take place on 12, 13, 14 February 2022. Check under memory based examination AFCAT day wise analysis and paper question with solution. Applicants can check the memory-based answer key, the analysis and the AFCAT 1 2022 quiz from this page. This is a negative score of 01 points for wrong answer in the AFCAT exam. AFCAT Answer Key 2022 AFCAT 1 Answer Key 2022 Indian Air Force Common Admission Test was held online in 90 exams. Indian Air Force releases the AFCAT 2022 Response Key on its official website, afcat.cdac.in. Aspirants who pass both stages are assigned to various assignments and are trained for 74 weeks at various AFSB centers. All appeared can download the question paper solution after available on this page. Answers: You can calculate the AFCAT score using this formula: (3 points x total number of correct answers) Â"Â" (total number of incorrect answers) AFCAT Continue Reading Tags: AFCAT Answer Keyafcat.cdac.inAnswer Keycareeraforce.nic.in As for the department, the will end on February 14, 2022, and analysis or paper review will be available within one week of that date. However, since 2015 he has not released the answer key for the exam. The exam takes place in two phases: an online AFCAT exam consisting of AFCAT and EKT documents and an AFSB interview. Then the candidates can analyze their answers. Candidates can know if They are qualified for the next stage through this card. 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So that aspirants can match their answers and get a better estimate of the marks. If it is released this year, we will provide it on this page. AFCAT Answer Key 2022 Shift 1 2 will be discussed here. Ans. In order to calculate the marks using the AFCAT answer key, add +3 marks for each correct answer and deduct -1 mark for each incorrect answer. Air Force Common Admission Test 1 exam on 12, 13, and 14 February 2022. Check exam analysis, memory based answer key and question paper PDF from below. below.

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