

# JOIN INDIAN AIR FORCE

## BECOME AN

# *AGNIVEERVAYU*

**INTAKE 01/2023**

**FOR BOTH MEN & WOMEN**

**REGISTRATION DATES : 07 - 23 NOVEMBER 2022**

**VISIT : <https://agnipathvayu.cdac.in>**

**EDUCATION QUALIFICATION : INTERMEDIATE/10+2/DIPLOMA**

**DOB BETWEEN : 27 JUNE 2002 AND 27 DECEMBER 2005**  
(both days inclusive)

**6 ASC MUMBAI**

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FOR REGISTRATION



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# भारतीय वायु सेना

# Indian Air Force



INVITES ONLINE APPLICATIONS FROM UNMARRIED INDIAN MALE AND FEMALE CANDIDATES FOR SELECTION TEST FOR AGNIVEERVAYU INTAKE 01/2023 UNDER AGNIPATH SCHEME

ONLINE REGISTRATION DATES: FROM 07 NOVEMBER 2022 TO 23 NOVEMBER 2022

ONLINE EXAM DATES: FROM 18 JANUARY 2023 TO 24 JANUARY 2023

AGNIVEERVAYU INTAKE 01/2023

## CAUTION

SELECTION IN THE INDIAN AIR FORCE IS 'FAIR & TRANSPARENT' AND ON MERIT ONLY. AT NO STAGE ANY BRIBE IS REQUIRED TO BE PAID TO ANYONE FOR SELECTION OR RECRUITMENT IN THE INDIAN AIR FORCE. CANDIDATES SHOULD NOT FALL PREY TO UNSCRUPULOUS PERSONS POSING AS RECRUITING/SELECTING AGENTS.

1. Pursuant to the New HR methodology for induction of Agniveervayu under 'Agnipath Scheme', aimed to provide an opportunity to Nation's youth to experience military way of life for a period of four years, **Indian Air Force invites ONLINE application from unmarried Indian male and female candidates for selection test from 18 January 2023 onwards to join the IAF as an AGNIVEERVAYU.** The number and employability of female candidates will be decided as per service requirement.

(THE SELECTION TEST IS NOT FOR SELECTION AS COMMISSIONED OFFICERS/ PILOTS/ NAVIGATORS)

2. Application is required to be filled only ONLINE by the candidates and detailed instructions to fill up the same are available at <https://agnipathvayu.cdac.in>.

3. This examination is valid for **AGNIVEERVAYU INTAKE 01/2023**.

4. **ONLINE REGISTRATION shall commence at 1700h on 07 November 2022 and will close at 1700h on 23 November 2022.** Only **ONLINE REGISTERED** applications shall be accepted. For registration log on to <https://agnipathvayu.cdac.in>.

Note: - Candidates are advised to register at the earliest opportunity as no extension of registration dates will be accommodated.

## ELIGIBILITY CRITERIA

### 5. Age

(a) **Date of Birth Block.** Candidate born between **27 June 2002 and 27 December 2005** (both dates inclusive) are eligible to apply.

(b) In case, a candidate clears all the stages of the Selection Procedure, then the **upper age limit as on date of enrolment should be 21 years**.

6. **Marital Status.** Only unmarried Indian male and female candidates are eligible for enrolment as Agniveervayu in IAF. Candidates will have to give a certificate of being "unmarried" at the time of enrolment. Agniveervayu will not be permitted to marry during their entire tenure of four years in the IAF. A candidate may be dismissed from service if he / she marries during his / her tenure or is found to be already married inspite of giving certificate of being "unmarried".

### 7. Educational Qualification

#### (a) Science Subjects

Candidates should have passed **Intermediate/10+2/Equivalent examination** with **Mathematics, Physics and English** from an Education Board listed as COBSE member with minimum **50% marks** in aggregate and **50% marks in English**.

OR

Passed **Three years Diploma Course in Engineering** (Mechanical / Electrical / Electronics / Automobile / Computer Science / Instrumentation Technology / Information Technology) from a Government recognized Polytechnic institute with **50% marks in aggregate** and **50% marks in English** in diploma course (or in Intermediate / Matriculation, if **English is not a subject in Diploma Course**).

OR

Passed **Two years Vocational course with non-vocational subject viz. Physics and Mathematics** from State Education Boards / Councils which are listed in COBSE with **50% marks in aggregate** and **50% marks in English** in vocational course (or in Intermediate / Matriculation, if **English is not a subject in vocational course**).

#### (b) Other than Science Subjects

Passed Intermediate / 10+2 / Equivalent Examination in any subjects approved by Central / State Education Boards listed as COBSE member with minimum **50% marks in aggregate** and **50% marks in English**.

OR

Passed two years' vocational course from Education Boards listed as **COBSE** member with minimum **50% marks** in aggregate and **50% marks in English** in vocational course or in Intermediate / Matriculation if **English** is not a subject in Vocational Course.

**Note - 1:** Candidate eligible for Science Subjects examination (Including Intermediate / 10+2 / three years' diploma course in engineering or two years' vocational course with non-vocational subjects of Physics and Maths) are also eligible for Other than Science Subjects and would be given an option of appearing in both Science Subjects and Other than Science Subjects examination in one sitting while filling up the online registration form.

**Note - 2:** Education Boards listed in Council of Boards for School Education (COBSE) website ([cobse.org.in](http://cobse.org.in)) as members, as on date of registration shall only be considered.

**Note - 3:** Exact aggregate Percentage of marks before decimal as written in the marks sheet of 10+2 / Intermediate / Equivalent Examination / Three years Diploma Course / Two years Vocational Course OR calculated as per the rules of concerned Education Board/ Polytechnic Institute shall only be considered (For example 49.99% should be taken as 49% and not to be rounded off to 50%).

8. **Mandatory Medical Standards.** General Medical Standards for AGNIVEERVAYU are as follows:-

(a) **Height:** Minimum acceptable height is **152.5 cms (For Male candidates)** and **152 cms (For Female candidates)**.

(b) **Weight:** Proportionate to height and age.

(c) **Chest:** **For male candidate's** minimum chest circumference will be 77 cms and the chest expansion should be at least 5 cms. **For female candidates** the chest wall should be well proportioned with minimum range of expansion of 5 cms.

(d) **Corneal Surgery (PRK/LASIK)** is not acceptable.

(e) **Hearing:** Candidate should have normal hearing i.e. able to hear forced whisper from a distance of 6 meters by each ear separately.

(f) **Dental:** Should have healthy gums, good set of teeth and minimum 14 dental points.

(g) **Visual standards:**

Visual Acuity	Maximum limits of Refractive error	Colour Vision
6/12 each eye, correctable to 6/6 each eye	Hypermetropia: +2.0D Myopia: 1D Including $\pm$ 0.50 D Astigmatism	CP-II

**Note:** Candidates should bring latest prescription and spectacle for corrected vision, if used. The prescription must bear the signature, stamp and registration number of eye specialist. Prescription should not be more than one month old.

(h) **General Health:** Candidate should be of normal anatomy without loss of any appendages. He / She should be free from any active or latent, acute or chronic, medical or surgical disability or communicable disease, infection and skin ailments. Candidate shall be physically and mentally FIT to perform duty in any part of the world, in any climate and terrain.

(i) **Gynaecological Examination (For female candidates):** The examination covers external genitalia, hernia orifices and the perineum, any evidence of stress urinary incontinence or genital prolapse outside introitus.

(k) **Gender (For female candidates):** Any candidate if found to have predominant characteristics of the opposite gender as evident on external physical examination, will be rejected as **Unfit**. Any candidate having undergone gender reassignment surgery will be declared **Unfit**.

(l) **Pregnancy (For female candidates):** Any candidate, if found to be pregnant shall be disqualified and her candidature rejected. A candidate should not have conceived at the time of reporting or till conclusion of four years' tenure. If found to be pregnant later during the training or engagement period of four years, suitable action for Dismissal / Removal will be undertaken.

(m) Details of medical standards are available on CASB web portal <https://agnipathvayu.cdac.in>.

9. **Consumption of Narcotic Drugs and Psychotropic Substance (NDPS).** Consumption of Narcotic Drugs and Psychotropic substances banned under the NDPS Act 1985 shall be a reject criteria for selection into the IAF and AGNIVEERVAYU found either in possession or storing or distributing or consuming such drugs and substances after enrolment shall be liable for disciplinary action including dismissal from the IAF. **ZERO TOLERANCE POLICY TO ALCOHOLISM AND SUBSTANCE ABUSE IS FOLLOWED IN IAF.**

10. **Body Tattoo.** Permanent body tattoos are not permitted, however, tattoos only on inner face of the fore arms (inside of elbow to the wrist), back (dorsal) part of the hand/reverse side of the palm and Tribals with tattoo which are as per the custom and traditions of their tribes may be considered. However, right to consider a tattoo acceptable or unacceptable will rest with the selection centre. **Candidates with permanent body tattoos are to submit two Postcard size photographs (close up and distinct view) with details of size and type of the Tattoo during the second phase of testing.**

11. **Only Sikh Candidates,** whose religion prohibits cutting of the hair or shaving of face, shall be permitted to grow hair and/or retain beard and moustache. Accordingly, those Sikh candidates willing to retain the same as per laid down specification are to get their photographs with beard and moustache.

## TERMS AND CONDITIONS

12. **AGNIVEERVAYU** will be enrolled in the Indian Air Force under Air Force Act 1950, for a period of **FOUR years**. Agniveervayu would form a distinct rank in the Indian Air Force, different from any other existing ranks. The Indian Air Force is not obliged to retain Agniveervayu beyond the engagement period of four years.

13. On completion of four years of service, based on organisation's requirements and policies promulgated by the Indian Air Force, Agniveervayu will be offered an opportunity to apply for enrolment in the regular cadre of the Indian Air Force as Airmen. These applications will be considered in a centralised manner based on objective criteria, including performance during their four-year engagement period and up to 25% of each specific batch of Agniveervayu will be enrolled in regular cadre of IAF. **Agniveervayu will not have any right to be selected for further enrolment into the Indian Air Force. Selection of the Agniveervayu for further enrolment, if any, shall be at the discretion of the Government of India.**

14. **Employability.** Agniveervayu enrolled under this entry are liable to be assigned any duty in organisational interest at the discretion of the Indian Air Force.

15. **Training.** On being enrolled, Agniveervayu will be imparted military training based on Indian Air Force requirements.

16. **Leave.** Grant of leave will be subject to exigencies of Indian Air Force. The following leave is applicable for Agniveervayu during their engagement period: -

(a) **Annual Leave.** 30 days per year.

(b) **Sick Leave.** Based on medical advice.

17. **Medical and CSD Facilities.** For the duration of their engagement period in the Indian Air Force, Agniveervayu will be entitled for medical facility at Service Hospitals as well as CSD provisions.

18. **Pay, Allowances and Allied Benefits.** Agniveervayu enrolled under this Scheme will be paid an Agniveer package of Rs. 30,000/- per month with a fixed yearly increment. In addition, Risk and Hardship allowances (as applicable in IAF), Dress and Travel allowances will also be paid.

19. **Terminal Benefits - Seva Nidhi Package.** Agniveervayu will be given one time '**Seva Nidhi**' package comprising their monthly contribution along with matching contribution by the Government on completion of their engagement period, as indicated below: -

Year	Customised Package (Monthly)	In Hand (70%)	Contribution to Agniveers Corpus Fund (30%)	Contribution to Corpus fund by Gol
All Figures in Rs. (Monthly Contribution) (Approximately)				
1 <sup>st</sup> Year	30,000/-	21,000/-	9,000/-	9,000/-
2 <sup>nd</sup> Year	33,000/-	23,100/-	9,900/-	9,900/-
3 <sup>rd</sup> Year	36,500/-	25,550/-	10,950/-	10,950/-
4 <sup>th</sup> Year	40,000/-	28,000/-	12,000/-	12,000/-
All Figures in Rs. (Monthly Contribution) (Approximately)				
Total Contribution in Agniveers Corpus Fund after four years			Rs. 5.02 lakh	Rs. 5.02 lakh
Exit after 4 years	Approximately Rs. 10.04 Lakhs as Seva Nidhi Package (Absolute amount excluding interest)			

**Note 1:** AGNIVEERVAYU will not be required to contribute to any Provident Fund of the Government.

**Note 2:** There shall be no entitlement to gratuity and any kind of pensionary benefits.

20. **Insurance, Death and Disability Compensation.** AGNIVEERVAYU will be provided non-contributory Life Insurance cover of Rs. 48 Lakhs for the duration of their engagement period as AGNIVEERVAYU in the Indian Air Force. AGNIVEERVAYU will not be governed by provisions contained in the Pension Regulations/Rules for Indian Air Force. For details of Death/Disability compensation log on to <https://agnipathvayu.cdac.in>.

21. '**Agniveer Skill Certificate**'. At the end of engagement period, a detailed Skill-Set certificate will be provided to the AGNIVEERVAYU, highlighting the skills and level of competency acquired by the personnel during their engagement period.

22. '**Not Entitled to the ESM Status**'. Personnel enrolled under this Scheme will not be eligible for Ex-Servicemen status after their discharge from the Service on completion of four years engagement period.

## SEQUENCE OF EXAMINATION

**MOBILE PHONES / SMART WATCHES / ELECTRONIC DEVICES ARE PROHIBITED IN TESTING AREAS DURING PHASE-I AND PHASE-II. CANDIDATES FOUND IN POSSESSION OF MOBILE PHONES / ELECTRONIC DEVICES SHALL BE DEBARRED PERMANENTLY**

### Phase - I

23. **Online Test.** Eligible candidates will be sent provisional admit cards for Phase - I of testing on their registered **e-mail IDs** between 48-72 hrs prior to the examination. Candidates are required to download the admit card, take a colour printout and carry the same to the examination centre. Name of city & exam date will be intimated to candidates at an earlier date to enable them plan their movement. This provisional admit card can also be downloaded by the candidate under candidates login on CASB web portal <https://agnipathvayu.cdac.in>. All candidates in possession of provisional admit card will undertake Online Test at centres designated / allotted as per their admit card. Online test will be objective type and questions will be bilingual (English & Hindi) except for English paper. Candidates are to bring one blue / black pen and original **AADHAAR card** along with them for Phase - I testing. Details of the test are as follows: -

(a) **Science Subjects.** Total duration of the online test shall be **60 minutes** and shall comprise of **English, Physics and Mathematics** as per 10+2 CBSE syllabus.

(b) **Other than Science Subjects.** Total duration of the online test shall be **45 minutes** and shall comprise of **English** as per 10+2 CBSE syllabus and **Reasoning & General Awareness (RAGA)**.

(c) **Science Subjects & Other than Science Subjects.** Total duration of the online test shall be **85 minutes** and shall comprise of **English, Physics and Mathematics** as per 10+2 CBSE syllabus and **Reasoning & General Awareness (RAGA)**.

(d) **Marking pattern for online test: -**

(i) **One mark for every correct answer.**

(ii) **Nil (0) marks for unattempted question.**

(iii) **0.25 marks shall be deducted for each wrong answer**

**Note:** Above examination methodology has been designed to facilitate selection process based on qualifications of candidates. Irrespective of the examination methodology AGNIVEERVAYU enrolled under this entry are liable to be assigned any duty in organisational interest, at the discretion of Indian Air Force.

24. Marks scored by the candidates in STAR Phase-I Testing will be "Normalised" by using the formula as published on the web site <https://agnipathvayu.cdac.in>, to take into account variation in difficulty levels of the question papers across different sessions. Candidates are to note that the application of Cut-Off for shortlisting candidates for STAR Phase-II testing and preparation of Final Merit List for selection will be based on "Normalised Marks" and "Not on" the "Actual Marks" scored by the candidate in STAR Phase-I testing. Further, on normalisation, marks scored by a candidate in a subject may become less/more than actual marks, and more than total marks of that subject in exceptional cases.

**BEWARE, IMPERSONATORS WILL BE PROSECUTED**

25. **CANDIDATES ARE TO QUALIFY IN EACH PAPER INDIVIDUALLY IN SCIENCE SUBJECTS AND OTHER THAN SCIENCE SUBJECTS, with normalised marks.** The result of Phase-I and the list of shortlisted candidates for Phase-II, based on their performance in Phase-I Online test, will be uploaded on <https://agnipathvayu.cdac.in> within one month from the last date of online exam.

**Phase - II**

26. Soon after the declaration of the result of Phase-I (Online) Test, a cut off will be applied based on the marks scored by the candidates in the Phase-I Test and SHORTLISTED candidates will be sent a **New admit card** on their registered **e-mail IDs** for Phase-II test at a designated ASC. This admit card for Phase-II exam can also be downloaded online under candidate's login on CASB web portal <https://agnipathvayu.cdac.in>. Candidates have to report on the stipulated date and time for Phase-II at the designated ASC along with following:

- (a) Colour print out of Phase-II admit card.
- (b) Colour print out of duly filled application form downloaded on completion of online registration.
- (c) HB pencil, eraser, sharpener, glue stick, stapler and black/blue ball point pen for writing.
- (d) Eight copies of un-attested passport size colour photograph (**which was used for the online application registration**).
- (e) Original and four self-attested photocopies of matriculation passing certificate (**required for verification of candidate's name, father's name and his/her date of birth**).
- (f) Original and four self-attested photocopies of matriculation marks sheet (**only applicable for three years' diploma course holders when English is not a subject in diploma course**).
- (g) Original and four self-attested photocopies of Intermediate/10+2/equivalent examination passing certificate and marks sheet.

**OR**

Original and four self-attested photocopies of three years diploma course passing certificate and marks sheets of all semesters.

**OR**

- Original and four self-attested photocopies of two years Vocational course passing certificate and all marks sheets including non-vocational course with subjects English, Physics and Mathematics.
- (h) Certificate for **COAFP** (Children of Air Force Personnel), including certificate for children of serving/retired/deceased Air Force civilian employees paid out of defence estimates are to be downloaded as the case may be, from the download section of CASB web portal and brought along while reporting for Phase-II of the examination.
  - (j) Original Phase-I admit card used during Phase-I test bearing Air Force seal and invigilator's signature.
  - (k) Original and four self-attested photocopies of NCC 'A', 'B' or 'C' certificate (if applicable).

**Note:** Candidate discharged from the IAF for any reason are not eligible to appear in the selection test.

27. **Additional Skills / Qualifications / Achievements.** Candidates with any additional skills / qualifications / achievements in fields, including but not limited to, Information Technology, Motor Vehicle driving/maintenance, Hospitality, Logistics, Accounting and Sports are required to upload supporting certificates / documents through a link provided along with Phase-II call letter and also furnish them at the time of Phase-II testing. Candidates are encouraged to acquire additional skills to have an edge in their performance during training and subsequent tenure as 'Agniveervayu'.

28. **Verification of Eligibility.** Candidates should be in possession of the documents mentioned at para 26 & 27 above, when appearing for the selection test which would be scrutinised/verified prior to commencement of Phase-II to ascertain the eligibility **prima-facie**. Detailed verification of all the documents listed at para 26 & 27 above shall be carried out in respect of candidates who pass Adaptability Test - 1. Candidature of those who do not meet the laid down educational criteria shall be cancelled during **initial verification of original certificates & mark sheets** and also during **detailed verification at ASC**.

**Note-1:** In the case of **COAFP**, the name of the candidate, parent's name and the date of birth of the candidate as mentioned in the discharge book / service book / service particular certificate / casualty certificate (as applicable) must be the same as mentioned in the matriculation passing certificate of the candidate.

**Note-2:** Under no circumstances, the candidates shall be permitted to appear in Phase-II of the selection test without original educational marks sheets/passing certificates & documents mentioned above in paragraph 26. However, candidates with photocopies of educational marks sheets/ passing certificates may be permitted to appear in the selection test only on production of a certificate from college/school principal certifying that educational certificates/marks sheets are deposited with college/school. In exceptional circumstances, DigiLocker verified certificates will be accepted and candidates will be issued with CSV (Certificate Subject to Verification) status. Candidates are thereafter required to submit original certificates to nearest ASC within one month from date of issue of CSV, to clear the CSV status.

**Note-3:** The original passing certificates/marks sheets shall not be retained by the selection centre. The same shall be returned to the candidates on completion of detailed verification.

**Note-4:** Internet copy of mark-sheet not acceptable.

**Note-5:** Candidates are strictly prohibited from doing any rough work or write anything anywhere on the Admit Cards issued for Phase-I and Phase-II. Such candidates will be **DEBARRED PERMANENTLY**.

29. **Physical Fitness Test (PFT).** Names of the shortlisted candidates, who qualify the online test, shall be displayed on the CASB Web Portal <https://agnipathvayu.cdac.in> and on a stipulated date shall be called at designated ASC for Physical Fitness Test (PFT) which would consist of **1.6 Km run to be completed within Seven minutes (For male candidates)** and **Eight minutes (For female candidates)**. Male candidates shall also have to complete **10 Push-ups, 10 Sit-ups and 20 Squats** within the stipulated time as per the following to qualify in the Physical Fitness Test.

Test	Max Time Period	Remarks
10 Push-ups	01 minute	Test will be conducted after 10 minutes break on completion of run
10 Sit-ups	01 minute	Test will be conducted after 02 minutes break on completion of 10 Push-ups
20 Squats	01 minute	Test will be conducted after 02 minutes break on completion of 10 Sit-ups

Female candidates shall also have to complete **10 Sit-ups and 15 Squats** within the stipulated time as per the following to qualify in the Physical Fitness Test.

Test	Max Time Period	Remarks
10 Sit-ups	01 minute and 30 seconds	Test will be conducted after 10 minutes break on completion of run
15 Squats	01 minute	Test will be conducted after 02 minutes break on completion of 10 Sit-ups

**Note:** Candidates are advised to bring their **sports shoes and shorts/track pants**. Detailed procedure on expected technique for push-ups, sit-ups and squats is published on CASB Web Portal <https://agnipathvayu.cdac.in>.

30. Candidates shall sign a consent form prior to appearing in physical fitness test/medical test for selection in IAF. He / She shall appear in these tests at his / her own risk and shall not be paid any compensation by IAF for injury/casualty if any, sustained by him / her during such tests. The consent form shall be signed by parents/guardian of candidates below 18 years of age. The consent form is appended with Phase-II admit card.

31. **Adaptability Test-I.** All candidates who pass the Physical Fitness Test (PFT) shall have to undertake Adaptability Test-I (objective type written test) which is to assess suitability of a candidate for employment in the IAF which involves deployment in varied geographic terrain, weather and operational conditions.

32. **Adaptability Test-II.** All candidates who pass Adaptability Test-I shall have to undertake Adaptability Test-II as per policy in vogue. Adaptability Test-II is to select candidates who can adapt to the environment of Indian Air Force and are able to adjust to the military way of life.

**Phase - III**

33. **Medical Examination.** Candidates who qualify Adaptability Test-II shall be issued with medical appointment letter at respective ASCs. Medical examination shall be conducted by Air Force Medical Team as per IAF medical standards and policy in vogue on subject issue. Medical examination would also include Baseline Investigation of: -

- (a) Blood Haemogram - Hb, TLC, DLC
- (b) Urine RE/ME
- (c) Biochemistry
  - (i) Blood Sugar Fasting & PP
  - (ii) Serum Cholesterol
  - (iii) Urea, Uric acid, Creatinine
  - (iv) LFT- Serum Bilirubin, SGOT, SGPT
- (d) X- Ray chest (PA view)
- (e) Ultrasonography of lower abdomen & Pelvis (**For female candidates only**)
- (f) ECG (R)
- (g) Tests for Narcotic Drugs and Psychotropic Substance Abuse.
- (h) Any other test necessary in the opinion of the Medical Officer.

Candidates declared medically unfit can avail the option for 'Appeal Medical Board' (AMB) against their unfitness by depositing Rs. 40/- in a Government Treasury/RBI/SBI through Electronic Military Receivable Order (e-MRO)/Military Receivable Order (MRO). The application for AMB along with original copy of e-MRO/MRO, photocopy of Unfitness Certificate are to be submitted to the representative of ASC within three working days of medical examination.

34. The recruitment medical officer and the specialist doctors of Armed Forces are the final authorities on declaring a candidate fit or unfit during initial medical examination, appeal medical board and medical examination prior to enrolment. The candidates shall be governed by Armed Forces standards which may be at variance from civil standards. There is no provision for representation or review after the appeal medical board.

**Note-1:** Candidates are advised to get tartar and stains removed from their teeth before appearing for the Medical Examination. Ears should be free of wax. Candidates should be prepared to stay for the medical examination for four to five days under their own arrangement. No TA/DA shall be admissible.

**Note-2:** Passing in the medical examination is not a guarantee for employment in Indian Air Force.

**Note-3:** Request for change of Medical Examination Centre or Date of Medical Examination shall not be entertained.

**HOW TO APPLY**

35. Candidates are to fill ONLINE Applications by logging on to <https://agnipathvayu.cdac.in>.

36. During online registration, the following documents are to be uploaded as applicable by respective candidates: -

- (a) Class 10<sup>th</sup> /matriculation passing certificate.
- (b) Intermediate/10+2 or equivalent mark sheet

**OR**

3 Yrs Engineering Diploma Final Year Mark sheet (if applying on the basis of 3 Yrs Engineering Diploma from a Govt. recognised polytechnic in prescribed stream) and Intermediate/Matriculation mark sheet (if English is not a subject in Diploma Course).

**OR**

2 Yrs Vocational course mark sheets of non-vocational course with subjects English, Physics and Mathematics.

- (c) Passport size recent colour photograph (taken not before **October 2022**) of size 10 KB to 50 KB (front portrait in light background without head gear except for Sikhs). The photograph is to be taken with candidate holding a black slate in front of his/her chest with his/her name and date of photograph taken, clearly written on it with white chalk in capital letters. Change in appearance like growing beard, head gear, etc, in comparison to the photograph may result in cancellation of candidature for STAR online examination and Phase-II.
- (d) Candidate's left hand thumb impression image (Size 10 KB to 50 KB).
- (e) Candidate's signature image (Size 10 KB to 50 KB).
- (f) Candidate's parent's (Father/Mother)/Guardian's signature image (if candidate is below 18 years on the date of filling the online application).

37. **Examination Fee:** Examination fee of Rs.250/- is to be paid by the candidate while registering for the online examination. The payment can be made by using Debit Cards/Credit Cards/Internet Banking through payment gateway.

38. Candidate must have his/her valid E-mail ID and Mobile No. for successful online registration.

39. Candidate should enter AADHAAR number in on-line application. Candidates from J&K, Assam and Meghalaya are exempted for the same, if not having AADHAAR card.

40. Candidates are to reach at the examination Centre with colour print out of provisional admit card. Candidates shall be debarred from appearing in the online test in case anomalies / irregularities/ incorrect information are observed during initial verification at the examination venue or at any subsequent stage of selection process.

41. The candidates should carry his/her AADHAAR Card (as displayed on their Admit Card) as proof of identity whenever they report for the Selection Test (Phase-I & II) and Medical Test. Candidates from J&K, Assam and Meghalaya are to carry any other valid ID Proof, if not having AADHAAR Card.

42. Details about required educational qualification, physical/medical standards and job specification are available on CASB web portal <https://agnipathvayu.cdac.in> under the candidate's login and this information can be accessed by the candidate without signing in.

**GENERAL**

43. **General instructions for candidates are as follows: -**

- (a) Candidates must indicate five choices of examination centre for STAR ONLINE EXAM and seven choices of ASCs for Phase-II, in order of preference while filling up the online application form. However, CASB reserves the right to allot any centre other than those mentioned in the application.
- (b) **REQUESTS FOR CHANGE OF EXAMINATION CENTRE OR DATE OF SELECTION TEST SHALL NOT BE ENTERTAINED.**
- (c) Candidates not reporting for the test on due date and time shall not be accommodated on other dates/shifts.
- (d) Duplicate / Incomplete / erroneously filled applications shall be **rejected**.
- (e) **Candidates should be prepared to stay for the entire duration of the tests** under their own arrangement. **No TA/DA shall be admissible.**
- (f) **Candidates are required to provide an active e-mail ID which will be used by CASB for all communications till culmination of the entire selection process and enrolment for the particular intake. It is also advised to preserve e-mail ID and password for all future communications.**
- (g) Candidate should apply only once in response to this advertisement.
- (h) Candidature of candidates who apply **MORE THAN ONCE IN RESPONSE TO THIS ADVERTISEMENT AND OBTAINS** different registration numbers **SHALL BE REJECTED**.

**NOTE: PRESIDENT, CASB RESERVES THE RIGHT TO ALLOT EXAMINATION CENTRE FOR PHASE - I AND II WHICH MAY OR MAY NOT BE AS PER CHOICE OF THE CANDIDATE.**

44. **COVID-19 INSTRUCTIONS FOR CANDIDATES APPEARING FOR SELECTION TEST**

- (a) Given the risk of COVID-19, candidates are advised to follow all instructions / guidelines issued by Central/State Governments from time to time.
- (b) At the entrance any candidate showing symptoms of Influenza Like Illness (ILI), will not be allowed for the test considering the safety of other persons.

45. If there is any variation between English & Hindi/any other regional language versions of the advertisement, English version shall be taken as authentic.

46. Any **CORRIGENDUM/CHANGES/UPDATES** shall be available **ONLY** on CASB web portal <https://agnipathvayu.cdac.in> and **NO INTIMATION SHALL BE GIVEN IN ANY NEWS PAPER/ANY OTHER MEDIA**. All candidates are required to see the web portal of this office from time to time.

47. **PROVISIONAL SELECT LIST (PSL).** The PSL (merit-wise) will be prepared after the completion of selection test and the same will be displayed at all the ASCs and also on web portal <https://agnipathvayu.cdac.in> on **31 May 2023**. Inclusion of names of candidates in the PSL depends upon the performance of the candidates in the selection test and the same is determined by application of cut off marks vis-à-vis number of qualified candidates in phase-II testing and anticipated vacancies. **Inclusion of name in Provisional Select List (PSL) does not guarantee automatic enrolment.** IAF reserves the right to cancel the Selection Process even after publication of the PSL, if necessary. Enrolment is strictly in order of merit subject to medical fitness, availability of vacancies, not exceeding the age of 21 years on date of enrolment and meeting all the laid down eligibility criteria as and when called for enrolment. The validity of the PSL shall be 06 months from the date of display and shall be applicable only for **AGNIVEERVAYU INTAKE 01/2023**.

48. **ENROLMENT LIST.** List of candidates finally called for enrolment in **AGNIVEERVAYU INTAKE 01/2023** will be published on **10 June 2023**. E-Call letter **ONLY** shall be sent to candidates called for enrolment on their Registered e-mail IDs.

49. **FOR ANY QUERY CONTACT, PRESIDENT, CASB, BRAR SQUARE, DELHI CANTT, NEW DELHI - 110010, TELEPHONE NO. 011-25694209/ 25699606 AND E-MAIL: casbiaf@cdac.in OR LOG ON TO CASB WEB PORTAL <https://agnipathvayu.cdac.in> UNDER CANDIDATE'S LOG IN. For queries pertaining to filling up of online application form, candidates may also contact on Telephone No. 020-25503105/ 25503106.**

**DISCLAIMER**

The terms and conditions given in the advertisement are guidelines only and orders issued by the Government, as amended from time to time, will apply for the selected candidates.

FOR DETAILED SYLLABUS, MODEL QUESTION PAPERS, PROVISIONAL SELECT LIST AND ENROLMENT LIST, LOG ON TO CASB WEB PORTAL: <https://agnipathvayu.cdac.in>

**IAF RESERVES THE RIGHT TO CANCEL ENTIRE SELECTION PROCESS AT ANY STAGE WITHOUT ASSIGNING ANY REASONS**

**CANDIDATES FOUND INDULGING I N ANY TYPE OF MALPRACTICES / UNFAIR MEANS DURING THE EXAMINATION SHALL BE DEBARRED PERMANENTLY**

**THE DATA ENTERED DURING REGISTRATION WILL BE FINAL AND NO CHANGES WILL BE PERMITTED LATER. ENTRY OF WRONG DATA WILL DISQUALIFY CANDIDATURE.**



# भारतीय वायु सेना INDIAN AIR FORCE

## JOIN INDIAN AIR FORCE AS AN AGNIVEERVAYU



INDIAN AIR FORCE INVITES ONLINE APPLICATIONS FROM UNMARRIED MALE AND FEMALE (INDIAN) CANDIDATES FOR SELECTION TEST FOR AGNIVEERVAYU INTAKE 01/2023 UNDER AGNIPATH SCHEME

Online Registration dates : From 1700h on 07 November 2022 to 1700h on 23 November 2022.  
Online Examination dates : From 18 January 2023 onwards.  
Webportal for registration : <https://agnipathvayu.cdac.in>  
Date of Birth Block : Born between 27 June 2002 and 27 December 2005 (both dates inclusive)  
Educational Qualification :

(a) SCIENCE SUBJECTS

Passed Intermediate/10+2/ Equivalent examination with Mathematics, Physics and English from an Education Board listed as COBSE member with minimum 50% marks in aggregate and 50% marks in English.

OR

Passed Three years Diploma Course in Engineering (Mechanical/Electrical/Electronics/Automobile/Computer Science Instrumentation Technology/ Information Technology) from a Government recognised Polytechnic Institute with 50% marks in aggregate and 50% marks in English in Diploma course (or in Intermediate/Matriculation, if English is not a subject in Diploma Course).

OR

Passed Two years Vocational course with non-vocational subject viz. Physics and Mathematics from State Education Boards/Councils which are listed in COBSE with 50% marks in aggregate and 50% marks in English in Vocational course (or in Intermediate/Matriculation, if English is not a subject in Vocational Course).

(b) OTHER THAN SCIENCE SUBJECTS

Passed Intermediate/10+2/ Equivalent examination in any stream/subjects approved by Central/State Education Board listed as COBSE member with minimum 50% marks in aggregate and 50% marks in English.

OR

Passed Two years Vocational course from Education Boards listed as COBSE member with minimum 50% marks in aggregate and 50% marks in English in Vocational course or in Intermediate/Matriculation if English is not a subject in Vocational Course.

Registration & Examination Fee : Rs. 250/-

FOR DETAILED INFORMATION ON ENTRY LEVEL QUALIFICATION,  
JOB SPECIFICATION, MEDICAL STANDARDS, TERMS & CONDITIONS,  
INSTRUCTIONS FOR FILLING UP ONLINE APPLICATIONS AND REGISTRATION  
FOR AGNIVEERVAYU INTAKE 01/2023 LOG ON TO <https://agnipathvayu.cdac.in>



QR code for information and registration of application



## PAY & PERKS

Agniveervayu enrolled under this Scheme will be paid an Agniveervayu package of ₹ 30,000/- per month with a fixed yearly increment. In addition, Risk and Hardship allowances (as applicable in IAF), Dress and Travel allowances will be paid.

### 1. Terminal Benefits – Seva Nidhi Package

Agniveervayu will be given one time 'Seva Nidhi' package comprising their monthly contribution along with matching contribution by the Government on completion of their engagement period, as indicated below:-

Year	Customised Package (Monthly)	In Hand (70%)	Contribution to Agniveervayu Corpus Fund (30%)	Contribution to Corpus Fund by Gol
All Figures in Rs. (Monthly Contribution) (Approximately)				
1 <sup>st</sup> Year	30,000/-	21,000/-	9,000/-	9,000/-
2 <sup>nd</sup> Year	33,000/-	23,100/-	9,900/-	9,900/-
3 <sup>rd</sup> Year	36,500/-	25,550/-	10,950/-	10,950/-
4 <sup>th</sup> Year	40,000/-	28,000/-	12,000/-	12,000/-
All Figures in Rs. (Monthly Contribution) (Approximately)				
Total Contribution in Agniveervayu Corpus Fund after four years			Rs. 5.02 lakh	Rs. 5.02 lakh
Exit after 4 year	<b>Approximately Rs. 10.04 Lakhs as Seva Nidhi Package</b> (Absolute amount excluding interest)			

**Note 1:** Agniveervayu will not be required to contribute to any Provident Fund of the Government.

**Note 2:** There shall be no entitlement to any gratuity and any kind of pensionary benefits in the case of Agniveervayu.

2. **Leave.** Grant of leave will be subject to exigencies of the organization. The following leave may be applicable for Agniveervayu during their engagement period:-

- (a) **Annual Leave.** 30 days per year.
- (b) **Sick Leave.** Based on medical Advice.

3. **Medical and CSD Facilities.** For the duration of their engagement period in IAF, Agniveervayu will be entitled for medical facility at Service Hospitals as well as CSD provisions.

4. **Life insurance cover.** Agniveervayu will be provided non-contributory life insurance cover of ₹ 48 lakhs for the duration of their engagement period as Agniveervayu in IAF and they will not be eligible for Air Force Group Insurance Fund (AFGIS) schemes/ benefits.

5. **Compensation for Death.** Agniveervayu will not be governed by provisions contained in the Pension Regulations/ Rules for IAF (as amended from time to time). In case of death, the following will be admissible to Next of Kin (NOK) from the Agniveervayu Corpus Fund:-

- (a) Insurance cover as applicable (as per para 4 above).
- (b) All other compensation as per details placed at para 8 below.

6. **Categorisation of Death.** The death for the purpose of provision of financial benefits to Agniveervayu will be categorised as follows:-

(a) **Category X.** Death due to natural causes neither attributable to nor aggravated by military service during the engagement period.

(b) **Category Y.** Death due to causes which are accepted as attributable to or aggravated by military service or due to accidents/ mishaps in the performance of duties including training during the engagement period.

(c) **Category Z.** During the engagement period, death due to acts of violence/attack by terrorists, anti-social elements, enemy, during border skirmishes/war/ peacekeeping operations/ aid to civil power, etc; and during operational preparation and training for war including battle inoculation training/ exercise; and accidental deaths due to natural calamities/ operations specially notified by the Govt, etc.

7. **Compensation for Disability.** In case an individual is placed in Permanent low medical category (LMC), the authorities will assess the compensation based on percentage of disability and attributability. The extent of disability or functional incapacity shall be determined in the following manner for the purpose of computing the disability compensation:-

Sl No.	Percentage of disability as finally accepted	Percentage to be reckoned for computing disability compensation
(a)	Between 20% and 49%	50%
(b)	Between 50% and 75%	75%
(c)	Between 76% and 100%	100%

8. Payment on Disability/ Death.

SI No.	Category	Entitlements of Agniveervayu
(a)	Death during engagement period on Bonafide duty (Category 'Y/Z')	<p>(i) Insurance cover of ₹ 48 lakhs from Public Fund.</p> <p>(ii) One-time ex-gratia ₹ 44 lakhs from Public Fund.</p> <p>(iii) Full pay for unserved period upto four years (with effect from date of death) including <b>Seva Nidhi</b> component.</p> <p>(iv) Balance accumulated (as on date) in the individual's <b>Seva Nidhi</b> fund and Govt contribution including interest from the Agniveervayu Corpus Fund.</p>
(b)	Death during engagement period not on duty (Category 'X')	<p>(i) Insurance Cover of ₹ 48 lakhs from Public Fund.</p> <p>(ii) Balance accumulated (as on date) in the individual's <b>Seva Nidhi</b> fund and Govt contribution including interest from the Agniveervayu Corpus Fund.</p>
(c)	Disability (attributed/aggravated due to conditions of engagement)	<p>(i) One-time ex-gratia ₹ 44/25/15 Lakhs based on % of disability (100/75/50) from Public Fund.</p> <p>(ii) Full pay for unserved period upto four years (with effect from date of disability) including <b>Seva Nidhi</b> component (from Public fund).</p> <p>(iii) Balance accumulated (as on date) in the individual's <b>Seva Nidhi</b> fund including interest and Govt contribution from the Agniveervayu Corpus Fund.</p>



## PHYSICAL / MEDICAL STANDARDS

To get selected as an Agniveervayu, the candidate must be physically and mentally fit to perform duties in any part of the world, climate and terrain.

General Medical Standards for AGNIVEERVAYU are as follows:-

- (a) **Height:** Minimum acceptable height is 152.5 cms (For Male candidates) and 152 cms (For Female candidates).
- (b) **Weight:** Proportionate to height and age.
- (c) **Chest:** For male candidate's minimum chest circumference will be 77 cms and the chest expansion should be at least 5 cms. For female candidates the chest wall should be well proportioned with minimum range of expansion of 5 cms.
- (d) **Corneal Surgery (PRK/LASIK)** is not acceptable.
- (e) **Hearing:** Candidate should have normal hearing i.e. able to hear forced whisper from a distance of 6 meters by each ear separately.
- (f) **Dental:** Should have healthy gums, good set of teeth and minimum 14 dental points.
- (g) **Visual standards**

Visual Acuity	Maximum limits of Refractive error	Colour Vision
6/12 each eye, correctable to 6/6 each eye	Hypermetropia: +2.0D Myopia: 1D Including $\pm 0.50$ D Astigmatism	CP-II

**Note:** Candidates should bring latest prescription and spectacle for corrected vision, if used. The prescription must bear the signature, stamp and registration number of eye specialist. Prescription should not be more than one month old.

- (h) **General Health:** Candidate should be of normal anatomy without loss of any appendages. He / She should be free from any active or latent, acute or chronic, medical or surgical disability or communicable disease, infection and skin ailments. Candidate shall be physically and mentally FIT to perform duty in any part of the world, in any climate and terrain.
- (j) **Gynaecological Examination (For female candidates):** The examination covers external genitalia, hernia orifices and the perineum, any evidence of stress urinary incontinence or genital prolapse outside introitus.
- (k) **Gender (For female candidates):** Any candidate if found to have predominant characteristics of the opposite gender as evident on external physical examination, will be rejected as Unfit. Any candidate having undergone gender reassignment surgery will be declared Unfit.

(I) **Pregnancy (For female candidates):** Any candidate, if found to be pregnant shall be disqualified and her candidature rejected. A candidate should not have conceived at the time of reporting or till conclusion of four years' tenure. If found to be pregnant later during the training or engagement period of four years, suitable action for Dismissal / Removal will be undertaken.

## **MEDICAL EXAMINATION**

1. Medical Examination. Candidates who qualify Adaptability Test-II shall be issued with medical appointment letter at respective ASCs. Medical examination shall be conducted by Air Force Medical Team as per IAF medical standards and policy in vogue on subject issue. Medical examination would also include Baseline Investigation of: -

- (a) Blood Haemogram - Hb, TLC, DLC
- (b) Urine RE/ME
- (c) Biochemistry
  - (i) Blood Sugar Fasting & PP
  - (ii) Serum Cholesterol
  - (iii) Urea, Uric acid, Creatinine
  - (iv) LFT- Serum Bilurubin, SGOT, SGPT
- (d) X- Ray chest (PA view)
- (e) Ultrasonography of lower abdomen & Pelvis (For female candidates only)
- (f) ECG (R)
- (g) Tests for Narcotic Drugs and Psychotropic Substance Abuse.
- (h) Any other test necessary in the opinion of the Medical Officer.

2. Candidates declared medically unfit can avail the option for 'Appeal Medical Board' (AMB) against their unfitness by depositing Rs. 40/- in a Government Treasury/RBI/ SBI through Electronic Military Receivable Order (e-MRO)/Military Receivable Order (MRO).

3. The application for AMB along with original copy of e-MRO/MRO, photocopy of Unfitness Certificate are to be submitted to the representative of ASC within three working days of medical examination.

4. The recruitment medical officer and the specialist doctors of Armed Forces are the final authorities on declaring a candidate fit or unfit during initial medical examination, appeal medical board and medical examination prior to enrolment.

5. The candidates shall be governed by Armed Forces standards which may be at variance from civil standards. There is no provision for representation or review after the appeal medical board.

**Note-1:** Candidates are advised to get tartar and stains removed from their teeth before appearing for the Medical Examination. Ears should be free of wax. Candidates should be prepared to stay for the medical examination for four to five days under their own arrangement. No TA/DA shall be admissible.

**Note-2:** Passing in the medical examination is not a guarantee for employment in Indian Air Force.

**Note-3:** Request for change of Medical Examination Centre or Date of Medical Examination shall not be entertained.

**Topics Proposed for New Portal**

**(i) A short passage followed by four questions to test comprehension.**

The questions will be set

1. To judge understanding of the passage
2. To draw inference
3. To judge understanding of vocabulary

**(ii) Grammar-1**

1. Subject- Verb concord
2. Forms of verbs and errors in the use of verbs, etc.
3. Sequence of tenses and errors in the use of tenses.
4. Transformation of sentences Compound, Complex, Simple, Negative, Affirmative, Comparative degree, Positive degree, Superlative degree, etc.

**(iii) Grammar-2**

1. Formation of Words- Nouns from Verbs and Adjectives, Adjectives from Nouns and Verbs, Adverbs from Adjectives, etc.
2. Determiners
3. The Preposition
4. Nouns and Pronouns
5. The Adjectives
6. The Adverb
7. The Conjunction
8. The modals
9. Clauses- Noun clauses, Adverb clauses of condition and time and Relative Clauses.

**(iv) Vocabulary**

1. Synonyms and Synonyms in context
2. Antonyms and Antonyms in context
3. One word substitution
4. Spelling pitfalls
5. Simple Idioms/ Phrases
6. Words often confused/ Selecting the correct word fitting in a sentence

**(v) Narration (Direct and Indirect)**

1. Commands and requests
2. Statements (Various tenses)

3. Questions (Various forms of questions, tenses, etc.)

(vi) **Voice (Active and Passive)**

1. Changes required under each tense
2. Other conditions for transforming Active into Passive
  - (a) The Preposition
  - (b) Modal Auxiliaries
  - (c) Infinitive
  - (d) Participles

(vii) **Jumbled Sentences**

## **MODEL QUESTION PAPER**

### **ENGLISH**

**Read the passage given below and answer the questions that follow: (Q.No.1 to 4):**

Personally I dislike the praise of poverty and suffering. I do not think they are at all desirable, and they ought to be abolished. Nor do I appreciate the ascetic life as a social ideal though it may suit individuals. I understand and appreciate simplicity, equality, self-control but not the torturing of the body, I believe that the mind and habits have also to be trained and brought under control. It would be absurd to expect that a person who is given too much self-love can endure much suffering or show unusual self-control or behave like a hero when crisis comes. To be in good moral condition requires as much training to be in physical health.

- Q.1. The writer does not like the praise of poverty. It is:  
(A) Personal opinion (B) Opinion of the all people  
(C) Opinion of the ascetics (D) Opinion of the simple people      Ans : A
- Q.2. To whom the ascetic life may be suitable?  
(A) To the writer (B) To the socially advanced  
(C) To individuals (D) To all the members of society      Ans : C
- Q.3. What does the author mean by 'ascetic life' in the passage?  
(A) Equality (B) Self-control  
(C) Simplicity (D) Mortification of the body      Ans : D
- Q.4. Which of the following words could replace the word 'absurd' as used in the passage?  
(A) reasonable (B) congruous (C) simple (D) silly      Ans : D

**Identify the incorrectly spelt word:**

- Q.5. (A) Seperate (B) Occur (C) Receive (D) Accommodate  
Ans : A

**Choose the word almost nearest in meaning to the word given below:**

- Q.6. Zest  
(A) passion (B) apathy (C) lazy (D) boredom      Ans : A

**Choose the word almost opposite in meaning to the word given below:**

- Q.7. Embellish  
(A) sacrifice (B) disfigure (C) forfeit (D) indict      Ans : B

**Choose the correct one word substitute for the following stem:**

- Q.8. A well experienced person.  
(A) Officer (B) Senior (C) Apprentice (D) Veteran      Ans : D

**A sentence, split into four parts, has been given. Choose the best order which produces the original sentence:**

- Q.9. for backward classes (1) / a vexed problem facing us (2)  
and to reserve more seats (3) / is the clamour to open more colleges (4)  
(A) 2,3,4,1 (B) 2,4,1,3 (C) 2,4,3,1 (D) 2,1,4,3 Ans : C

**Choose the most appropriate answer and fill in the blanks: (Q.No.10 to 14)**

- Q.10. The authorities seem to be \_\_\_\_\_ concerning the condition of workers.  
(A) liberal (B) insensitive (C) ignorant (D) responsible Ans : B
- Q.11. He \_\_\_\_\_ for a walk daily in the morning.  
(A) go (B) shall go (C) will go (D) goes Ans: D
- Q.12. \_\_\_\_\_ thing of beauty is a joy forever.  
(A) A (B) The (C) One (D) An Ans: A
- Q.13. The thunder was accompanied \_\_\_\_\_ a heavy rain.  
(A) from (B) up (C) by (D) with Ans : C
- Q.14. The noun form of 'detect' is \_\_\_\_\_.  
(A) dictator (B) detention (C) detective (D) detection Ans : D

**Choose the sentence that conveys the same meaning as the given sentence:**

- Q.15. He is greater than me.  
(A) I am not so great as he (B) I am the greatest  
(C) I am as great as he (D) He is as great as I Ans : A

**Spot the erroneous parts, if any, in the following sentences: (Q.No.16 to 18)**

- Q.16. He met with an accident and admitted in the hospital. No error.  
A B C D Ans : C
- Q.17. He stole a dog and sold the dog for Rs.50/- No error  
A B C D Ans : B
- Q.18. Both Mili as well as Meena are beautiful. No error  
A B C D Ans : B

**Change the narration:**

- Q.19. The teacher said to me, "Be regular and learn your lessons daily."  
(A) The teacher told me to be regular and learn your lessons daily.  
(B) The teacher asked me to be regular and learn my lessons daily.  
(C) The teacher advised me be regular and learn my lessons daily.  
(D) The teacher advised me to be regular and learn my lessons daily. Ans : D

**Change the voice:**

- Q.20. It is time to buy books.  
It is time \_\_\_\_\_.  
(A) all the books to be bought (B) for the books are being bought  
(C) for the books to be bought (D) for the books have been bought. Ans : C

## SYLLABUS- MATHEMATICS

### FOR 'AGNIPATH' RECRUITMENT SCHEME

Sr No	Topics Proposed for New Portal
1.	Sets , Relations and Functions
2.	Trigonometric Functions
3.	Inverse Trigonometric Functions
4.	Complex Numbers and Quadratic Equations
5.	Linear Inequalities
6.	Permutations and Combinations
7.	Binomial Theorem
8.	Sequences and Series
9.	Straight Lines and family of lines
10.	Circles and family of Circles
11.	Conic Sections
12.	Three-dimensional Geometry
13.	Matrices and Determinants
14.	Limit and Continuity
15.	Differentiation
16.	Application of Derivatives
17.	Indefinite Integrals
18.	Definite Integrals
19.	Application of Integrals
20.	Differential Equations
21.	Differential Equations
22.	Vectors
23.	Probability
24.	Statistics



गणित  
**MATHEMATICS**

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Q.1. यदि सम्बन्ध R इस प्रकार परिभाषित है कि  $R = \{(x, y) : 2x + y = 41, x, y \in \mathbb{N}\}$  तो R, निम्न में से किस प्रकार का सम्बन्ध है ?

What is the nature of relation R, if R is defined as  $R = \{(x, y) : 2x + y = 41, x, y \in \mathbb{N}\}$  ?

- (A) स्वतुल्य / reflexive (B) सममित / symmetric  
(C) संक्रामक / transitive (D) इनमें से कोई नहीं / None of these

Ans:D

Q.2.  $\cos 24^\circ + \cos 55^\circ + \cos 125^\circ + \cos 204^\circ + \cos 300^\circ = ?$

- (A)  $\frac{1}{2}$  (B)  $\frac{3}{2}$  (C) 3 (D) 0

Ans:A

Q.3.  $\sec^{-1} \left[ \frac{x^2 + 1}{x^2 - 1} \right] = ?$

- (A)  $2 \tan^{-1} x$  (B)  $2x^2$  (C)  $2 \cot^{-1} x$  (D)  $x^2$

Ans:C

Q.4. अतिपरवलय  $9x^2 - 16y^2 = 144$  की नाभियां ज्ञात करो ।

Find the foci of hyperbola  $9x^2 - 16y^2 = 144$ .

- (A)  $(0, \pm 5)$  (B)  $(\pm 5, 0)$  (C)  $(\pm 5, 1)$  (D)  $(5, \pm 1)$

Ans:B

Q.5. उस त्रिभुज की प्रकृति ज्ञात करो जिसके शीर्ष बिन्दु  $A(12, 8)$ ,  $B(-2, 6)$  व  $C(6, 0)$  हैं ।

Find the nature of the triangle whose vertices are  $A(12, 8)$ ,  $B(-2, 6)$  &  $C(6, 0)$ .

- (A) समद्विबाहु समकोणीय त्रिभुज / Isosceles Right angle triangle  
(B) समबाहु त्रिभुज / Equilateral triangle  
(C) विषमबाहु त्रिभुज / Scalene triangle  
(D) इनमें से कोई नहीं / None of these

Ans:A

Q.6.  $xy$ -प्लेन पर प्रत्येक बिन्दु  $P(x, y, z)$  के लिए,

For every point  $P(x, y, z)$  on the  $xy$ -plane,

- (A)  $x = 0$  (B)  $y = 0$  (C)  $z = 0$  (D) None of these

Ans:C

Q.7.  $(6 + 5i)^2$  का संयुग्म ज्ञात करो ।

Find the conjugate of  $(6 + 5i)^2$ .

- (A)  $60 + 11i$  (B)  $11 - 60i$  (C)  $11 + 60i$  (D)  $60 - 11i$

Ans:B

Q.8.  $C(n, r) + 2C(n, r-1) + C(n, r-2) = ?$

- (A)  $C(n+1, r)$  (B)  $C(n+2, r)$  (C)  $C(n+2, r-1)$  (D)  $C(n+1, r-1)$

Ans:B

Q.9. एक गुणोत्तर श्रेणी का  $n$  वाँ पद  $2^n$  है तो इसके प्रथम 6 पदों का योग ज्ञात कीजिए ।

If  $n^{\text{th}}$  term of a G.P. is  $2^n$  then find the sum of its first 6 terms.

- (A) 126 (B) 124 (C) 190 (D) 154

Ans:A

Q.10.  $\left(3x - \frac{1}{x}\right)^6$  के विस्तार में  $x^2$  का गुणांक ज्ञात कीजिए ।

Find the coefficient of  $x^2$  in the expansion of  $\left(3x - \frac{1}{x}\right)^6$ .

- (A) 405 (B) 7290 (C) 2430 (D) 1215

Ans:D

Q.11.  $\begin{vmatrix} 0 & c & b^2 \\ c & 0 & a \\ b & a & 0 \end{vmatrix} = ?$

- (A)  $a^2b^2c^2$  (B)  $4a^2b^2c^2$  (C)  $\frac{1}{4}a^2b^2c^2$  (D)  $(a+b+c)^2$

Ans:B

Q.12. यदि  $A = \begin{pmatrix} 0 & 0 & 1 \\ 0 & 1 & 0 \\ 1 & 0 & 0 \end{pmatrix}$  तो  $A^{-1} = ?$

If  $A = \begin{pmatrix} 0 & 0 & 1 \\ 0 & 1 & 0 \\ 1 & 0 & 0 \end{pmatrix}$ , then  $A^{-1} = ?$

- (A)  $A$  (B)  $-A$  (C)  $I$  (D)  $-I$

Ans:A

Q.13. यदि  $\omega$  ईकाई का घनमूल है तो  $\begin{vmatrix} 1 & \omega & \omega^2 \\ \omega & \omega^2 & 1 \\ \omega^2 & 1 & \omega \end{vmatrix} = ?$

If  $\omega$  is the cube root of unity, then  $\begin{vmatrix} 1 & \omega & \omega^2 \\ \omega & \omega^2 & 1 \\ \omega^2 & 1 & \omega \end{vmatrix} = ?$

- (A) 1 (B)  $\omega$  (C)  $\omega^2$  (D) 0

Ans:D

Q.14.  $\lim_{x \rightarrow 0} \frac{\sin(2+x) - \sin(2-x)}{x} = ?$

- (A)  $\frac{1}{2} \cos 2$  (B) 1 (C)  $2 \cos 2$  (D) 0

Ans:C

Q.15.  $\frac{d}{dx} \{ \tan^{-1}(\sec x + \tan x) \} = ?$

- (A)  $-\frac{1}{2}$  (B) 1 (C)  $-1$  (D)  $\frac{1}{2}$

Ans:D

Q.16. यदि  $\sqrt{x+y} + \sqrt{y-x} = c$  तो  $\frac{d^2y}{dx^2}$  ज्ञात करो ।

Find  $\frac{d^2y}{dx^2}$ , if  $\sqrt{x+y} + \sqrt{y-x} = c$ .

- (A)  $\frac{2}{c}$  (B)  $-\frac{2}{c^2}$  (C)  $\frac{2}{c^2}$  (D)  $\frac{4}{c^2}$

Ans:C

Q.17. एक घन की भुजा में 3 सेमी/सेकण्ड की दर से वृद्धि हो रही है । यदि घन की भुजा 10 सेमी है तो उसके आयतन में होने वाली वृद्धि की दर (सेमी<sup>3</sup>/सेकण्ड में) ज्ञात करो ।

An edge of a cube is increasing at the rate of 3 cm/sec. Find the rate at which does the volume increase (in cm<sup>3</sup>/sec) if the edge of the cube is 10 cm.

- (A) 900 (B) 725 (C) 700 (D) 825

Ans:A

Q.18. यदि  $s = t^3 - 4t^2 + 5$  कण का गति बताता है और त्वरण लुप्त हो तो इसका वेग ( ईकाई प्रति सेकण्ड) मे

If  $s = t^3 - 4t^2 + 5$  describes the motion of a particle, then its velocity (in unit/sec) when the acceleration vanishes, is

- (A)  $\frac{16}{9}$  (B)  $-\frac{32}{3}$  (C)  $\frac{4}{3}$  (D)  $-\frac{16}{3}$

Ans:D

Q.19. संख्याओं 8, 12, 13, 15, 22 का मानक विचलन ज्ञात करो ।

Find the standard deviation of 8, 12, 13, 15, 22.

- (A) 3.54 (B) 3.72 (C) 4.21 (D) 4.6

Ans:D

Q.20. यदि एक सिक्के को तीन बार उछाला जाता है तो सिक्के में एक या दो शीर्ष आने की प्रायिकता ज्ञात करो ।

If a coin is tossed thrice, find the probability of getting one or two heads.

- (A)  $\frac{4}{5}$  (B)  $\frac{5}{8}$  (C)  $\frac{3}{4}$  (D)  $\frac{6}{7}$

Ans:C

Q.21. यदि बिन्दुओं  $A(60\hat{i}+3\hat{j})$ ,  $B(40\hat{i}-8\hat{j})$  और  $C(ai-52\hat{j})$  समरेख हैं तो  $a=?$

If the points  $A(60\hat{i}+3\hat{j})$ ,  $B(40\hat{i}-8\hat{j})$ , and  $C(ai-52\hat{j})$  are collinear, then  $a$  is equal to  
 (A) 40 (B) -40 (C) 20 (D) -20

Ans:B

Q.22.  $\int_{-\frac{\pi}{3}}^{\frac{\pi}{3}} \sin^2 x \, dx = ?$

- (A) 1 (B)  $\frac{\pi}{3} - \frac{\sqrt{3}}{4}$  (C)  $\frac{\pi}{2} - \frac{1}{4}$  (D) 0

Ans:B

Q.23.  $\int \frac{\cos 2x}{\cos^2 x \cdot \sin^2 x} \, dx = ?$

- (A)  $-\cot x - \tan x + c$  (B)  $\cot x - \tan x + c$  (C)  $\cot x + \tan x + c$  (D)  $\tan x - \cot x + c$

Ans:A

Q.24. अवकल समीकरण  $\frac{dy}{dx} = e^{x+y} + x^2 e^y$  का हल ज्ञात करो ।

Find the solution of the differential equation  $\frac{dy}{dx} = e^{x+y} + x^2 e^y$ .

- (A)  $e^x - e^y + \frac{y^3}{3} = c$  (B)  $e^x + e^y + \frac{x^3}{3} = c$  (C)  $e^x + e^{-y} + \frac{x^3}{3} = c$  (D)  $e^x + e^{-y} + \frac{y^3}{3} = c$

Ans:C

Q.25. वक्र  $y^2 = 2y - x$  और  $y$  - अक्ष से परिबद्ध क्षेत्र का क्षेत्रफल (वर्ग मात्रक में) ज्ञात करो ।

Find the area of the region (in sq.units) bounded by the curve  $y^2 = 2y - x$  &  $y$  - axis.

- (A)  $\frac{8}{3}$  (B)  $\frac{4}{3}$  (C)  $\frac{5}{3}$  (D)  $\frac{2}{3}$

Ans:B

FOR 'AGNIPATH' RECRUITMENT SCHEME

Sr No	Topics Proposed for New Portal
1.	Physical World and Measurement
2.	Kinematics
3.	Laws of Motion
4.	Work, Energy and Power
5.	Motion of System of Particles and Rigid Body
6.	Gravitation
7.	Properties of Bulk Matter
8.	Thermodynamics
9.	Behaviour of Perfect Gases and Kinetic Theory of Gases
10.	Oscillations and Waves
11.	Electrostatics
12.	Current Electricity
13.	Magnetic Effects of Current and Magnetism
14.	Electromagnetic Induction and Alternating Current
15.	Electro Magnetic Waves
16.	Optics
17.	Dual Nature of Matter and Radiation
18.	Atoms and Nuclei
19.	Electronic Devices



भौतिक विज्ञान  
PHYSICS

- Q.1. एक पिण्ड त्वरण  $a$  से एक वृत्तीय पथ में गति कर रहा है। यदि उसका वेग दोगुना कर दिया जाए तो वेग बदलने के बाद तथा वेग बदलने से पहले पिण्ड के त्वरणों का अनुपात ज्ञात करो।  
A body is moving in a circular path with acceleration  $a$ . If its velocity gets doubled then find the ratio of acceleration after and before the change of velocity?

(A) 1:4                      (B) 1:2                      (C) 2:1                      (D) 4:1

**Ans : D**

- Q.2 एक उपग्रह में घूमने वाले अंतरिक्ष यात्री की भारहीनता की स्थिति है।  
Weightlessness of an astronaut moving in a satellite is a situation of -

(A) शून्य वेग / Zero velocity                      (B) कोई गुरुत्व नहीं / No gravity  
(C) शून्य संहति / Zero mass                      (D) मुक्त रूप से गिरना / Free fall

**Ans : D**

- Q.3. ताप बढ़ाने पर निम्नलिखित में से किस धातु का प्रतिरोध घटता है ?  
For which of the following metals, the resistance decreases on increasing the temperature?

(A) तौबा / Copper                      (B) टंगस्टन / Tungsten  
(C) जर्मैनियम / Germanium                      (D) एल्युमीनियम / Aluminium

**Ans : C**

- Q.4. पृथ्वी के चुम्बकीय ध्रुवों पर नमन कोण क्या है ?  
What is the angle of dip at magnetic poles of earth?

(A) शून्य / Zero                      (B)  $45^\circ$                       (C)  $90^\circ$                       (D)  $180^\circ$

**Ans : C**

- Q.5 एक आवेश चुम्बकीय क्षेत्र के लम्बवत् वृत्तीय पथ में गति करता है। इसके परिक्रमण का आवर्तकाल निम्न में से किस पर निर्भर नहीं करता है ?  
A charge moves in a circle perpendicular to a magnetic field. Upon which of the following, the time period of revolution, does not depend?

(A) चुम्बकीय क्षेत्र / Magnetic field                      (B) आवेश / Charge  
(C) कण का द्रव्यमान / Mass of the particle                      (D) कण का वेग / Velocity of the particle

**Ans : D**

- Q.6. एक नाभिक की परमाणु संख्या  $Z$  तथा परमाणु द्रव्यमान  $M$  है । न्यूट्रॉनों की संख्या ज्ञात करो .  
Atomic number of a nucleus is  $Z$  and atomic mass is  $M$ . Find the number of neutrons.

(A)  $M-Z$  (B)  $M$  (C)  $Z$  (D)  $M+Z$

**Ans : A**

- Q.7. दिष्टकारी परिपथ में एक समान दिष्ट धारा प्राप्त करने हेतु उपयोग किये गये विद्युत परिपथ को \_\_\_\_ कहते हैं ।  
The electrical circuit, used to get smooth dc output from a rectifier circuit is called \_\_\_\_.

(A) दोलित्र / Oscillator (B) फिल्टर / Filter  
(C) प्रवर्धक / Amplifier (D) लॉजिक गेट / Logic gate

**Ans : B**

- Q.8. 2 किग्रा व 4 किग्रा द्रव्यमान के दो पिण्ड क्रमशः 20 मी/से और 10 मी/से के वेग से परस्पर गुरुत्वाकर्षण के प्रभाव में एक दूसरे की ओर गतिशील हैं । इस निकाय के केन्द्रक द्रव्यमान का वेग मी/से में ज्ञात करो .  
Two bodies of 2 Kg & 4 Kg are moving with velocities 20 m/s and 10 m/s respectively towards each other under mutual gravitational attraction. Find the velocity of their centre of mass in m/s.

(A) 5 (B) 6 (C) 8 (D) शून्य / Zero

**Ans : D**

- Q.9. ' $r$ ' त्रिज्या वाले ठोस गोले की एक निश्चित अक्ष के सापेक्ष घूर्णन त्रिज्या ' $r$ ' है । इस अक्ष की गोले के केन्द्र से दूरी ज्ञात करो ।

The radius of gyration of a solid sphere of radius  $r$  about a certain axis is  $r$ . Find the distance of this axis from the centre of the sphere.

(A)  $r$  (B)  $0.5r$  (C)  $(\sqrt{40})r$  (D)  $(\sqrt{20})r$

**Ans : C**

- Q.10. रुद्धोष्म प्रसार के सम्बन्ध में निम्न में से कौन सा कथन सही है ?

Which of the following statements is correct, in case of adiabatic expansion?

(A)  $\Delta U=0$  (B)  $\Delta U$  ऋणात्मक / negative (C)  $\Delta U$  धनात्मक / positive (D)  $\Delta W=0$

**Ans : B**

- Q.11. सरल आवर्त गति कर रहे किसी कण का वेग माध्य स्थिति पर \_\_\_\_\_ होता है ।

The velocity of a particle, executing S.H.M, is at its mean position.

(A) अधिकतम / maximum (B) न्यूनतम / minimum  
(C) अनन्त / infinity (D) शून्य / zero

**Ans : A**

- Q.12.  $2 \text{ m}^2$  क्षेत्रफल की एक कुण्डली एक ऐसे चुम्बकीय क्षेत्र में रखी जाती है जो 2 सेकण्ड में  $4 \text{ वेबर/मी}^2$  से परिवर्तित होकर  $8 \text{ वेबर/मी}^2$  हो जाता है। कुण्डली में प्रेरित विद्युत वाहक बल ज्ञात करो।  
A coil of an area  $2 \text{ m}^2$  is placed in a magnetic field which changes from  $4 \text{ Wb/m}^2$  to  $8 \text{ Wb/m}^2$  in 2 seconds. Find the induced e.m.f. in the coil.

(A) 4 V (B) 5 V (C) 6 V (D) 7 V

Ans : A

- Q.13. वह प्रक्रिया जिसके द्वारा प्रत्यावर्ती धारा को दिष्ट धारा में परिवर्तित किया जाता है, \_\_\_\_\_ कहलाती है।  
The process by which an alternating current is converted into direct current is called \_\_\_\_.

(A) शुद्धिकरण / Purification (B) आवर्धन / Amplification  
(C) दिष्टकरण / Rectification (D) धारा आवर्धन / Current amplification

Ans : C

- Q.14. यदि सोडियम धातु पर प्रकाश वैद्युत प्रभाव के लिए देहली तरंगदैर्घ्य  $5000 \text{ \AA}$  है तो इसका कार्यफलन ज्ञात करो।  
If the threshold wavelength for photoelectric effect on sodium metal is  $5000 \text{ \AA}$  then find its work function.

(A) 15 J (B)  $4 \times 10^{-19} \text{ J}$  (C)  $4 \times 10^{-14} \text{ J}$  (D)  $4 \times 10^{-22} \text{ J}$

Ans : B

- Q.15. एक परिमित तापमान पर एक नैज अर्ध चालक के चालन बैंड में इलेक्ट्रॉनों को पाये जाने प्रायिकता है -  
The probability of electrons to be found in the conduction band of an intrinsic semiconductor at a finite temperature -

(A) बैंड अंतराल के बढ़ने के साथ बढ़ती है / increases with increasing band gap  
(B) बैंड अंतराल के बढ़ने के साथ घटती है / decreases with increasing band gap  
(C) तापमान के बढ़ने के साथ घटती है / decreases with increasing temperature  
(D) तापमान और बैंड अंतराल से स्वतंत्र होती है / is independent of temperature and band gap

Ans : B

- Q.16. दृश्य प्रकाश की तरंगदैर्घ्य परास क्या है ?  
What is the wavelength range of visible light ?

(A)  $4 \times 10^{-7} - 8 \times 10^{-7} \text{ m}$  (B)  $4 \times 10^{-6} - 8 \times 10^{-8} \text{ m}$   
(C)  $4 \times 10^5 - 8 \times 10^{-9} \text{ m}$  (D)  $4 \times 10^{10} - 8 \times 10^{10} \text{ m}$

Ans : A

Q.17. सार्वत्रिक गुरुत्वाकर्षण नियतांक का विमीय सूत्र क्या है ?

What is the dimensional formula for the universal gravitational constant ?

- (A)  $M^{-1} L^3 T^{-2}$  (B)  $M^{-1} L^3 T^{-1}$  (C)  $M^{-1} L^2 T^{-2}$  (D)  $M^0 L^0 T^0$

**Ans : A**

Q.18. दो गेंदों को क्रमशः  $h$  तथा  $2h$  ऊँचाई से गिराया जाता है । उनके द्वारा जमीन तक पहुँचने में लिए गए समय का अनुपात क्या होगा ?

Two balls are dropped from heights  $h$  and  $2h$  respectively. What would be the ratio of times taken by the balls to reach the earth ?

- (A)  $\sqrt{2} : 1$  (B)  $1 : \sqrt{2}$  (C)  $2 : 1$  (D)  $4 : 1$

**Ans : B**

Q.19. जब एक स्प्रिंग को 2 सेमी खींचा जाता है तो संचित ऊर्जा 100 जूल है । यदि उसे और 2 सेमी खींचा जाए तो ऊर्जा में कितने जूल की वृद्धि होगी ?

When a spring is stretched by 2 cm, the energy stored is 100 J. If it is stretched further by 2 cm, its energy increases by \_\_\_\_\_.

- (A) 300 J (B) 400 J (C) 200 J (D) 100 J

**Ans : A**

Q.20. पानी का पृष्ठ तनाव किस तापमान पर न्यूनतम होगा ?

At what temperature, will the surface tension of water, be minimum ?

- (A)  $0^\circ \text{C}$  (B)  $25^\circ \text{C}$  (C)  $60^\circ \text{C}$  (D)  $75^\circ \text{C}$

**Ans : D**

Q.21. जल की 2 बूंदों का व्यास क्रमशः 1 सेमी व 1.5 सेमी है । दोनों के अन्दर दाब आधिक्य का अनुपात ज्ञात करो ।  
Diameters of 2 water drops are 1cm and 1.5 cm respectively. Find the ratio of excess pressures inside them.

- (A) 1:1 (B) 5:3 (C) 3:2 (D) 2:3

**Ans : C**

22. यंग के द्विस्लिट प्रयोग में सोडियम प्रकाश ( $\lambda=5898 \text{ \AA}$ ) का प्रयोग करते हुए 92 फिजें प्राप्त होती हैं । यदि किसी अन्य प्रकाश ( $\lambda=5461 \text{ \AA}$ ) का प्रयोग करें तो प्राप्त फिजों की संख्या ज्ञात करो ।

In Young's double slit experiment, using sodium light ( $\lambda=5898 \text{ \AA}$ ), 92 fringes are seen. If another colour ( $\lambda=5461 \text{ \AA}$ ) is used then find the number of fringes.

- (A) 62 (B) 99 (C) 67 (D) 85

**Ans : B**

Q.23. दो समान्तर प्लेटों के विभव कमशः  $-10V$  एवं  $+30V$  हैं । यदि प्लेटों के बीच की दूरी 2 सेमी हो तो प्लेटों के मध्य विद्युत क्षेत्र ज्ञात करो .

Two plates are at potentials  $-10V$  and  $+30V$ . If the separation between the plates is 2 cm then find the electric field between them.

- (A) 2000 V/m      (B) 1000 V/m      (C) 500 V/m      (D) 3000 V/m

**Ans : A**

Q.24. किसी सूक्ष्मदर्शी में वस्तु को प्रदीप्त करने के लिए यदि लाल प्रकाश के स्थान पर नीले प्रकाश को प्रयुक्त किया जाए तो सूक्ष्मदर्शी की विभेदन क्षमता \_\_\_\_\_ ।

If red light is replaced by blue light illuminating the object in a microscope, the resolving power of the microscope \_\_\_\_\_.

- (A) घट जाएगी / will decrease      (B) बढ़ जाएगी / will increase  
(C) आधी हो जाएगी / will be halved      (D) अपवर्तित रहेगी / will remain unchanged

**Ans : B**

Q.25. द्विपरमाण्विक गैस हेतु गैस के दो विशिष्ट ऊष्माओं का अनुपात  $C_P/C_V$  का मान क्या होगा ?

In gases of diatomic molecules, find the ratio of the two specific heat of gases  $C_P/C_V$ .

- (A) 1.66      (B) 1.33      (C) 1.4      (D) 1.00

**Ans : C**



**Reasoning (Verbal and Non- Verbal )**

1. Numerical series.
2. Distance and Direction sense Test.
3. Mathematical Operations
4. Number, Ranking & Time Sequence Test.
5. Assign Artificial Values to Mathematical Digit.
6. Inserting Correct Mathematical sign.
7. Human relation.
8. Coding & Decoding
9. Odd man out.
10. Mutual relation problems.
11. Tallest, youngest relations.
12. Dictionary words.
13. Analogy.
14. Non- Verbal reasoning.
15. Number coding.
16. Number Puzzle.

**Mathematics**

1. Ratio and Proportion.
2. Average.
3. LCM & HCF.
4. Profit and Loss.
5. Time, Distance and Speed.
6. Percentage.
7. Simplifications of Numbers.
8. Fractions.
9. Area of triangle, Square and Rectangle.
10. Surface Area and volume of Cuboids, Cylinder, Cone and Sphere.
11. Probability.
12. Simple Trigonometry.

**General Knowledge and Current Affairs**

1. General Science
2. Civics
3. Geography
4. Current Events
5. History
6. Basic Computer Operations



**MODEL QUESTION PAPER**

**REASONING AND GENERAL AWARENESS (RAGA)**

- Q.1. 'रेडार' द्वारा, किसी जहाज़ की स्थिति जानने हेतु, निम्न में से किन तरंगों का प्रयोग किया जाता है ?  
Which type of waves are used by a 'RADAR' for detecting the presence of an aircraft?  
(A) ध्वनि तरंगें / Sound Waves (B) रेडियो तरंगें / Radio Waves  
(C) वैद्युत तरंगें / Electric waves (D) पराश्रव्य तरंगें / Ultrasonic Waves **Ans: B**
- Q.2. औरंगजेब द्वारा सिखों के कौन से गुरु को मृत्यु-दण्ड दिया गया था ?  
Who among the following Sikh Gurus, was executed by Aurangzeb ?  
(A) गुरु अर्जुन देव / Guru Arjun Dev (B) गुरु गोविन्द सिंह / Guru Govind Singh  
(C) गुरु तेग बहादुर / Guru Tegh Bahadur (D) गुरु नानक देव / Guru Nanak Dev **Ans: C**
- Q.3. 'योगक्षेमं वहाम्यहम्', किस शासकीय नियंत्रित संस्था का आदर्श-वाक्य है ?  
Which Government controlled organisation has its motto 'Yogakshemam Vahamyahum' ?  
(A) भारतीय जीवन बीमा निगम / Life Insurance Corporation of India  
(B) केन्द्रीय अन्वेषण ब्यूरो / Central Bureau of Investigation  
(C) केन्द्रीय माध्यमिक शिक्षा बोर्ड / Central Board of Secondary Education  
(D) भारतीय स्टेट बैंक समूह / State Bank of India Group **Ans: A**
- Q.4. \_\_\_\_\_ को 'हजार झीलों की भूमि' कहा जाता है।  
\_\_\_\_\_ is called 'the land of thousand lakes'.  
(A) स्विट्ज़रलैंड / Switzerland (B) स्वीडन / Sweden  
(C) कनाडा / Canada (D) फिनलैंड / Finland **Ans: D**
- Q.5. मृत्यु दण्ड से क्षमादान का अधिकार, निम्न में से किसके पास है ?  
Who among the following has been vested the exclusive power to grant pardon in case of death sentence.  
(A) भारत के राष्ट्रपति / President of India  
(B) भारत के प्रधानमंत्री / Prime Minister of India  
(C) भारत के प्रधान न्यायाधीश / Chief Justice of India  
(D) भारत के सॉलिसिटर जनरल / Solicitor General of India **Ans: A**
- Q.6. 'गर्बा' किस प्रदेश का प्रसिद्ध लोकनृत्य है ?  
Of which of the following states, is 'Garba', a famous folk dance ?  
(A) आन्ध्र प्रदेश / Andhra Pradesh (B) गुजरात / Gujarat  
(C) बिहार / Bihar (D) पंजाब / Punjab **Ans: B**
- Q.7. अमेरिका के किस विशेष कार्य बल द्वारा, आतंकवादी ओसामा बिन-लादेन को खोजा व मारा गया ?  
By which of the following Special Task Forces of USA, was the terrorist Osama Bin-Laden, searched & killed?  
(A) मेरीन्स / Marines (B) हॉक / Hawks  
(C) नेवी सील्स / Navy Seals (D) फॉक्स / Foxes **Ans: C**

Q.8. यदि  $\frac{5+2\sqrt{3}}{7+4\sqrt{3}} = a+b\sqrt{3}$  है तो **a** और **b** का मान ज्ञात कीजिए ।

Find the value of **a** and **b**, if  $\frac{5+2\sqrt{3}}{7+4\sqrt{3}} = a+b\sqrt{3}$ .

(A)  $a = -11, b = -6$  (B)  $a = -11, b = 6$  (C)  $a = 11, b = -6$  (D)  $a = 6, b = 11$  **Ans: C**

Q.9. दो स्टेशनों **x** और **y** के बीच की दूरी 778 किमी है । एक रेलगाड़ी **x** से **y** तक की दूरी 84 किमी/घण्टा की चाल से तथा वापसी की यात्रा 56 किमी/घण्टा की चाल से तय करती है । पूरी यात्रा के लिए, रेलगाड़ी की औसत चाल किमी/घण्टा में ज्ञात कीजिए ।

Distance between two stations **x** and **y** is 778 km. A train covers the journey from **x** to **y** at a speed of 84 kmph and returns to **x** with a speed of 56 kmph. Find the average speed of the train (in kmph) for the whole journey.

(A) 67.2 (B) 70 (C) 68 (D) 72 **Ans: A**

Q.10. 50 प्रेक्षणों का माध्य 36 है । बाद में पता चला कि एक प्रेक्षण 48 को गलती से 23 ले लिया गया है । प्रेक्षणों का सही माध्य ज्ञात कीजिए ।

The average of 50 observations is 36. It was found later that an observation 48 was wrongly taken as 23. Find the correct average of the observations.

(A) 35.2 (B) 36.1 (C) 39.1 (D) 36.5 **Ans: D**

Q.11. तीन संख्याओं का योग 136 है । यदि पहली और दूसरी संख्याओं का अनुपात 2:3 है और दूसरी और तीसरी संख्या का अनुपात 5 : 3 है तो दूसरी संख्या ज्ञात कीजिए ।

The sum of three numbers is 136. If the ratio between first and second is 2:3 and that between second and third is 5:3. Find the second number.

(A) 40 (B) 48 (C) 60 (D) 72 **Ans: C**

Q.12. 45 व्यक्ति, एक काम को 16 दिन में कर सकते हैं । 6 दिन काम करने के बाद 30 व्यक्ति और शामिल हो जाते हैं । अब सभी को, बचा हुआ कार्य समाप्त करने में कितने दिन और लेंगे ?

45 men can finish a task in 16 days. After 6 days, 30 more men join them. How many days, will they all, now take to complete the remaining task?

(A) 6 (B) 8 (C) 10 (D) 12 **Ans: A**

Q.13. ज्ञात करो, किस राशि पर 10% वार्षिक ब्याज की दर से, 3 साल के चक्रवृद्धि ब्याज और साधारण ब्याज का अन्तर, ` 31 होगा ?

Find out the sum, for which the difference, between the compound and simple interest, for 3 years at the rate of 10% per annum, would be ` 31?

(A) Rs1500 (B) Rs 1200 (C) Rs 1600 (D) Rs 1000 **Ans: D**

Q.14. वह न्यूनतम संख्या ज्ञात करो जिसे 8, 12, 20 या 25 से विभाजित करने पर प्रत्येक दशा में 5 शेष रहता हो । Find the smallest number, which when divided by 8, 12, 20 or 25 leaves a remainder 5 in each case?

(A) 595 (B) 605 (C) 1205 (D) 1195 **Ans: B**

Q.15. एक आदमी अपनी आय का 75% खर्च करता है । यदि उसकी आय में 20% की वृद्धि हो और खर्चों में 10% की वृद्धि हो तो उसकी बचत में % वृद्धि ज्ञात कीजिए ।

A man spends 75% of his income. If his income increases by 20% and his expenditure increases by 10% then find the % increase in his savings.

(A) 40% (B) 30% (C) 50% (D) 60% **Ans: C**

Q.16. विजातीय ज्ञात कीजिए ।

Find the odd one out.

- (A) मिराज 2000 /Mirage 2000  
(C) मिग-29 /MiG-29

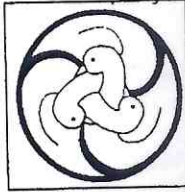
- (B) सुखोई-30 MKI /Sukhoi-30 MKI  
(D) मिग-27 /MiG-27

Ans: A

Q.17. विजातीय ज्ञात कीजिए ।

Find the odd one out.

(A)



(B)



(C)



(D)



Ans: D

Q.18. यदि किसी कूट भाषा में '786' का अर्थ 'study very hard', '958' का अर्थ 'hard work pays' और '645' का अर्थ 'study and work' है तो उस कोड भाषा में 'very' का कूट ज्ञात करो ।

If, in a code language '786' means 'study very hard', '958' means 'hard work pays' and '645' means 'study and work' then find the code for 'very'?

- (A) 8 (B) 7 (C) 6 (D) 9 Ans: C

Q.19. निम्नलिखित संख्या श्रृंखला को पूर्ण करें ।

Complete the following number series.

1, 4, 2, 8, 6, 24, 22, 88, \_\_\_\_.

- (A) 90 (B) 89 (C) 160 (D) 86 Ans: D

Q.20. एक परीक्षा, में एक छात्र ने प्रत्येक सही उत्तर के लिए 4 अंक प्राप्त किये व प्रत्येक गलत उत्तर के लिए 1 अंक खोया । यदि उसने सभी 75 प्रश्न हल किये और कुल 125 अंक प्राप्त किए तो उसके द्वारा, सही हल किये गए प्रश्नों की संख्या ज्ञात करो ।

In an examination, a student scores 4 marks for every correct answer and loses 1 mark for every wrong answer. If he attempts all 75 questions and secures 125 marks then find the number of questions, attempted correctly.

- (A) 35 (B) 40 (C) 42 (D) 46 Ans: B

Q.21. दी गई सारणी में लुप्त संख्या ज्ञात करो ।

Find the missing number in the given table.

5	8	7
11	17	15
21	33	

- (A) 29 (B) 31 (C) 28 (D) 33 Ans: A

Q.22. चार व्यक्ति A, B, C व D ताश खेल रहे हैं । A और B साझेदार हैं । यदि D का मुँह उत्तर की ओर हो तथा A का मुँह पश्चिम की ओर हो तो किसका मुँह दक्षिण की ओर होगा ?

Four persons A, B, C and D are playing cards. A & B are partners. If D is facing North and A is facing West, then whose face is towards South ?

- (A) C (B) B (C) D (D) A Ans: A

Q.23. निर्देश : उत्तर के रूप में सर्वोत्तम विकल्प का चयन करें ।

Direction : Choose the best alternative as the answer.

'खतरे' में हमेशा \_\_\_\_\_ होता है ।

Danger always involves \_\_\_\_\_.

(A) शत्रु /Enemy (B) हमला /Attack (C) डर /Fear (D) सहायता /Aid **Ans: C**

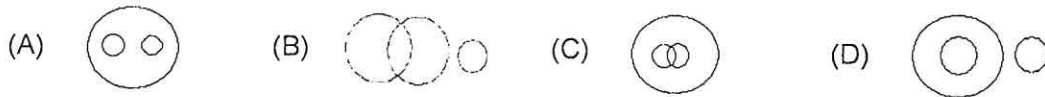
Q.24. यदि + का अर्थ  $\div$ ,  $\div$  का अर्थ -, - का अर्थ  $\times$  और  $\times$  का अर्थ + है तो  $8+2\div 3-4\times 6$  का मान ज्ञात करो ।

Evaluate  $8+2\div 3-4\times 6$ , if + means  $\div$ ,  $\div$  means -, - means  $\times$  and  $\times$  means +.

(A) 0 (B) 1 (C) -2 (D) 3 **Ans: C**

Q.25. डॉक्टरों, वकीलों और पेशेवरों के समूह के बीच सही सम्बन्ध दर्शाने वाला वेन आरेख कौन सा है ?

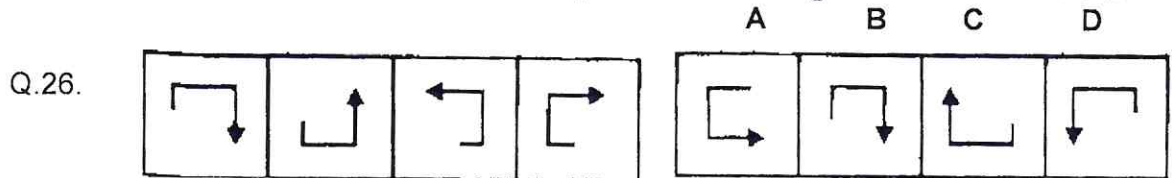
Which of the following Venn diagrams, depicts the correct relation among Doctors, Lawyers, Professionals?



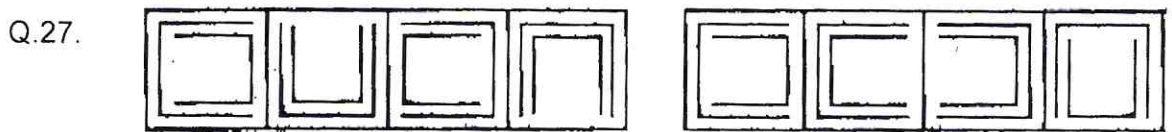
**Ans: A**

नीचे दिए गए प्रत्येक प्रश्न (प्रश्न संख्या 26-30) में, उत्तर चित्रों A, B, C तथा D में से वह चित्र चुनिये जो बाईं ओर दी गई श्रृंखला को पूर्ण करता है ।

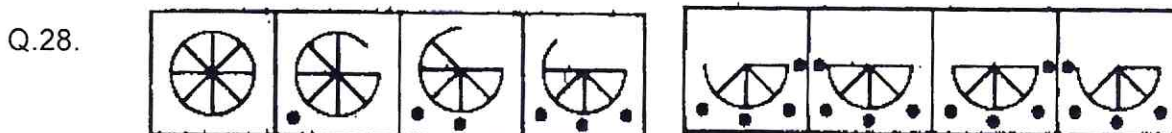
In each of the following Question (Q. No. 26-30), find the figure from the Answer figures A, B, C and D which would complete the series given on the left side.



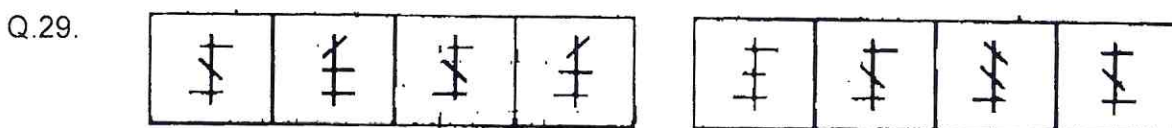
**Ans: C**



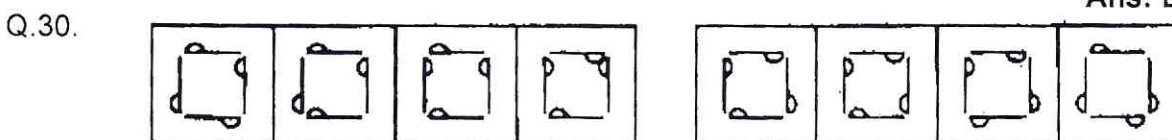
**Ans: A**



**Ans: A**



**Ans: B**



**Ans: A**

## FOR STAR AGNIVEERVAYU SELECTION

IAF has decided to apply the 'Normalisation of Marks' on the actual scores of the candidates for the STAR Agniveervayu examinations with effect from STAR-01/2023 which is being conducted in multi-shifts due to large number of candidates, to take into account any variation in the Difficulty Level of the Question Papers across different shifts. The Normalisation is done to give equal platform of the marks scored by various candidates across different shifts/QPs. This will ensure no disadvantage to the candidates writing their examination in different shifts and attempting different QPs. The following statistical formula (Standard Deviation Model) will be used by IAF to calculate the final marks (Normalised marks) of the candidates in the multi-shift examinations:

$$\widehat{M}_{ij} = \frac{\overline{M}_t^g - M_q^g}{\overline{M}_{ti} - M_{iq}} (M_{ij} - M_{iq}) + M_q^{gm}$$

Where:

$\widehat{M}_{ij}$  = Normalized marks of  $j^{\text{th}}$  candidate in the  $i^{\text{th}}$  shift.

$\overline{M}_t^g$  = is the average marks of the top 0.1% of the candidates considering all shifts (number of candidates will be rounded-up).

$M_q^g$  = is the sum of mean and standard deviation marks of the candidates in the examination considering all shifts.

$\overline{M}_{ti}$  = is the average marks of the top 0.1% of the candidates in the  $i^{\text{th}}$  shift (number of candidates will be rounded-up).

$M_{iq}$  = is the sum of mean marks and standard deviation of the  $i^{\text{th}}$  shift.

$M_{ij}$  = is the actual marks obtained by the  $j^{\text{th}}$  candidate in  $i^{\text{th}}$  shift.

$M_q^{gm}$  = is the sum of mean marks of candidates in the shift having maximum mean and standard deviation of marks of candidates in the examination considering all shifts.

\* Calculation of normalised marks will be done by rounding-off the marks up to 05 decimal places.

### Note:

1. Candidates are to note that the application of Cut-Off for shortlisting candidates for STAR Phase-II testing and preparation of Final Merit List for final selection will be based on "Normalised Marks" and "Not on" the "Original Marks" scored by the candidate in STAR Phase-I Examination. Further, on Normalisation, marks scored by a candidate in a subject may become more or less than the actual marks scored by him/her. In exceptional cases Normalised marks may become more than the maximum marks of that subject.

2. The normalisation process is completely statistical/mathematical and there is no discretion/human intervention whatsoever.



## CHECKLIST FOR SELECTION TEST : AGNIVEERVAYU

- (a) HB Pencil, Eraser, Sharpener, Glue Stick, Stapler and Black/Blue Ball Point Pen for writing.
- (b) Ten copies of un-attested recent (not taken before Oct 2022) passport size colour photograph.
- (c) Original and four self-attested photocopies of Matriculation Passing Certificate (required for verification of Candidate's Name, Father's Name and his/her Date of Birth).
- (d) Original and four self-attested photocopies of Matriculation Marks Sheet (only applicable for three years Diploma Course holders when English is not a subject in Diploma Course).
- (e) Original and four self-attested photocopies of Intermediate/10+2/Equivalent Examination Passing Certificate and Marks Sheet

**OR**

Original and four self-attested photocopies of Three Year Diploma Course Passing Certificate and Marks Sheets of all semesters.

**OR**

Original and four self-attested photocopies of Two Year Vocational Course Passing Certificate and Marks Sheets of all semesters and Marks Sheets of non-vocational subjects of English, Physics and Mathematics.

- (f) Original and four self-attested photocopies of duly filled Children of Serving Air Force Personnel (COAFP) Certificate (format available on CASB AFNet website) for children of Serving Air Force Personnel (or) Original and four self-attested photocopies of Discharge Book/Service Certificate issued from AFRO/DAV for children of retired/deceased/discharged Air Force personnel.
- (g) Candidates are to download & take colour printout of Admit Card. The same will be carried to the examination centre on the day of test.
- (h) For candidates discharged from Indian Army/Indian Navy/Any other government organisation, original and four self-attested photocopies of Discharge Certificate (as issued from Indian Army/Indian Navy/Government Organisation).
- (j) No Objection Certificate (NOC) [in original and four self-attested photocopies] issued from the employer, applicable only for candidates presently serving in any Government Organisation.
- (k) Original and four self-attested photocopies of NCC 'A', 'B' or 'C' certificate (if applicable).

### **Note:**

1. The Name of the children and his/her Date of Birth mentioned in the Discharge Book/Service Certificate must match with the details mentioned in his/her matriculation passing certificate.
2. Under no circumstances the candidates will be permitted to appear in the Selection Test without Original Educational Marks Sheets/Passing Certificates & Documents mentioned above in paragraph (c) to (e). However, candidates with photocopies of Educational Marks Sheets/Passing Certificates can be permitted to appear in the Selection Test only on production of a certificate from College/School Principal certifying that Educational Certificates/Marks sheets are deposited with College/School.
3. The original Passing Certificates/Marks Sheets will not be retained by the Selection Centre. The same will be returned to the candidates on completion of detailed verification.

