

arihant

AGNIPATH SCHEME

INDIAN ARMY

AGNIVEER TRADESMAN

PHASE I

Online Computer Based Written Exam (CEE)

The Only Study Guide Based on the Latest Exam Pattern and Syllabus

with OFFICIAL ONLINE PRACTICE TEST (SOLVED)

Maj. RD Ahluwalia

INDIAN ARMY

AGNIVEER

TRADESMAN

Phase I

Online Computer Based
Written Exam (CEE)

AGNIPATH
SCHEME

INDIAN ARMY

AGNIVEER

TRADESMAN

Phase I

Online Computer Based
Written Exam (CEE)

Maj. RD Ahluwalia

arihant
Arihant Publications (India) Ltd.

arihant
ARIHANT PUBLICATIONS (INDIA) LIMITED

All Rights Reserved

© Publisher

No part of this publication may be re-produced, stored in a retrieval system or by any means, electronic, mechanical, photocopying, recording, scanning, web or otherwise without the written permission of the publisher. Arihant has obtained all the information in this book from the sources believed to be reliable and true. However, Arihant or its editors or authors or illustrators don't take any responsibility for the absolute accuracy of any information published and the damage or loss suffered thereupon.

All disputes subject to Meerut (UP) jurisdiction only.

卐 **Administrative & Production Offices**

Regd. Office
'Ramchhaya' 4577/15, Agarwal Road, Darya Ganj, New Delhi -110002
Tele: 011- 47630600, 43518550

卐 **Head Office**
Kalindi, TP Nagar, Meerut (UP) - 250002
Tel: 0121-7156203, 7156204

卐 **Sales & Support Offices**
Agra, Ahmedabad, Bengaluru, Bareilly, Chennai, Delhi, Guwahati, Hyderabad, Jaipur, Jhansi, Kolkata, Lucknow, Nagpur & Pune.

卐 **ISBN** 978-93-88127-21-9

卐 **PRICE** ₹ 240.00

PO No : TXT-XX-XXXXXXX-X-XX

Published by Arihant Publications (India) Ltd.

For further information about the books published by Arihant, log on to www.arihantbooks.com or e-mail at info@arihantbooks.com

Follow us on

CONTENTS

OFFICIAL ONLINE PRACTICE TEST **1-10**

GENERAL KNOWLEDGE **1-84**

1. History of India 3-22
2. Geography of World and India 23-40
3. Indian Polity 41-52
4. Indian Economy 53-60
5. General Knowledge 61-79
6. Sports 80-84

GENERAL SCIENCE **1-82**

1. Units and Measurements 3-5
2. Motion and Force 6-10
3. Gravitation 11-15
4. Work, Power and Energy 16-19
5. Waves and Sound 20-23
6. Heat and Temperature 24-27
7. Light 28-33
8. Electricity and Its Applications 34-37
9. Magnetic Effect of Current 38-40
10. Our Universe 41-44
11. Matter Around Us 45-48
12. Atomic Structure, Radioactivity and Chemical Bonding 49-52
13. Acids, Bases and Salts 53-56
14. Metals and Non-Metals 57-61
15. Carbon and Its Compounds 62-65
16. Human Body 66-71
17. Health and Diseases 72-82

LOGICAL REASONING **1-78**

1. Analogy 3-7
2. Classification 8-10
3. Word Formation and Arrangement 11-15
4. Coding-Decoding 16-21
5. Series 22-25
6. Inserting the Missing Character 26-28
7. Ranking and Time Sequence Test 29-34
8. Blood Relation 35-39
9. Mathematical Operations & Reasoning 40-45
10. Direction Sense Test 46-51
11. Venn Diagram 52-55
12. Sitting Arrangement and Puzzle Test 56-61
13. Syllogism and Statement & Conclusion 62-65
14. Non-Verbal Intelligence 66-78

MATHEMATICS **1-116**

1. Number System 3-8
2. Fraction and Decimal 9-13
3. Square Root, Cube Root, Surds and Indices 14-20
4. HCF and LCM 21-26
5. Fundamental Arithmetical Operations 27-29
6. Average 30-34
7. Percentage 35-38
8. Profit, Loss and Discount 39-45
9. Simple and Compound Interests 46-49
10. Ratio and Proportion 50-53
11. Partnership 54-57
12. Mixture and Alligation 58-60
13. Time and Work 61-65
14. Speed and Distance 66-70
15. Geometry 71-83
16. Mensuration 84-92
17. Algebra 93-101
18. Trigonometry 102-107
19. Data Interpretation 108-116

PRACTICE SETS(1-5) **1-22**

All About Online CEE

The screening of candidates will be carried out for following categorie as per qualitative requirement.

S.NO.	Category	Education	Age
(a)	Agniveer Tradesmen (All Arms) 10th pass	(a) Class 10th simple pass (b) No stipulation in aggregate percentage but should have scored in 33% in each subject.	$17\frac{1}{2}$ –23

Note : The upper age limit has been relaxed from 21 years to 23 years as a onetime measure for the Recruiting Year 2022-23.

Height & Weight - As per policy in vogue.

Relaxation in Physical Standards.

S.NO.	Category	Height (cms)	Chest (cms)	Weights (kgs)
(a)	For son of service & ex-servicement, war widow and widow of ex-servicemen.	2	1	2
(b)	For adopted son/son-in-law of a war widow, if she has no son. Adoption had done during the lifetime of a soldier will be valid for the purpose of award of bonus marks/ Concessions and enrolment through UHQ enrolment.	2	1	2

Note : An elligible candidate can be grated prescribed relaxations in all three measurements i.e. height, chest and weight.

Special Physical Standards. As applicable.

Candidates will be tested as stated below

Physical Fitness Test (At Rally Site)							Remarks
1.6 km Run		**Beam (Pull Ups)**			**9 Feet Ditch**	**Zig-Zag Balance**	
Group	**Time**	**Marks**	**Pull Ups**	**Marks**	Need to Qualify	Need to Qualify	
Group-I	Group-I Up till 5 min 30 sec	60	10	40			
Group-II	5 min 31 sec to 5 min 45 sec	48	9 8 7 6	33 27 21 16			

Physical Measurement (At Rally Site)

Physical measurement will be carried out as per the Physical standards.

Medical Test

(a) As per laid down medical standards at the Rally Site.

(b) Unfit candidates will be referred to MH for specialist review. Candidates to report to designated Military Hospital within 5 days from referral and review medical exam to be completed by Military Hospital within 14 days as per policy.

Written Test through Common Entrance Examination (CEE)

(a) Will be conducted for medically fit candidates at nominated venue. Date and time of written test will be intimated at rally site and through Admit Cards.

(b) Admit Card for the CEE for the Rally Fit candidates will be issued at Rally Site itself.

(c) Admit Card for the CEE for the review Fit cases will be issued after getting medically fit by concerned specialist/specialists at MH.

INDIAN ARMY

AGNIVEER

Official Online

PRACTICE TEST

INDIAN ARMY

AGNIVEER TRADESMAN

Official Online Model Test

INSTRUCTIONS

1. This question paper consists of 50 objective type questions, to be completed in maximum 50 min.
2. All questions contain four alternatives, in which only one is correct.

1. Sachin Tendulkar is associated with which game?
(a) Table Tennis (b) Baseball
(c) Cricket (d) Hockey

2. Which football player has been named goodwill ambassador for 'Handicap International'?
(a) Cristiano Ronaldo (b) Neymar
(c) Paul Pogba (d) Lionel Messi

3. Simplicity of clothing was the symbol of which of the following in France?
(a) Liberty (b) Equality
(c) Fraternity (d) None of these

4. What was the childhood name of Mahatma Buddha?
(a) Vinay (b) Rahul
(c) Siddhartha (d) Gautam

5. After the Lok Sabha elections held in 2019 the government was formed under the Prime Ministership of whom?
(a) Sonia Gandhi
(b) Narendra Modi
(c) L.K. Advani
(d) S. Manmohan Singh

6. Which of the following is the most important raw material for generation of power in India?
(a) Uranium (b) Coal
(c) Natural Gas (d) Mineral Oil

7. Which is the least populous state in India?
(a) Arunachal Pradesh (b) Goa
(c) Sikkim (d) Tripura

8. President of India is nominated for a term of ..... years?
(a) 3 (b) 4
(c) 5 (d) 6

9. Which of the following was not a Varna of Indian society?
(a) Vaisya (b) Kshtriya
(c) Shudra (d) Valswik

10. The Opium war is the name given to the fighting between
(a) China and Russia (b) Russia and Britain
(c) Britain and China (d) None of the above

11. The hardest substance in the human body is
(a) keratin
(b) phosphorus of skeleton
(c) calcium of bone
(d) enamel of teeth

12. The caves of Ajanta and Ellora belonged to
(a) Buddhists (b) Jains
(c) Sikhs (d) Hindus

13. Harijan Sevak Sangh was organised by whom?
(a) Dr. BR Ambedkar (b) Mahatma Gandhi
(c) Raja Rammohan Roy (d) Mrs. Annie Besant

14. The first battle for independence against the British in India was fought in the year …… .
(a) 1887 (b) 1757
(c) 1947 (d) 1857

15. Republic TV channel has been launched by whom?
(a) Arnab Goswami (b) Rajat Shamar
(c) Prannay Roy (d) Vikram Chandra

16. Choose the correct alternative
Car : Garage : : Ship : ……
(a) Harbour (b) Depot (c) Airport (d) Hangar

17. A man walks 2 km to East and then he turns to South and walks 5 km. Again he turns to West and walks 2 km. After this he turns to North and walks 9 km. Now, how far is he from his starting point?
(a) 7 km (b) 3 km (c) 4 km (d) 5 km

18. Find the odd one.
Eagle, Crow, Pigeon and Hen.
(a) Pigeon (b) Eagle (c) Crow (d) Hen

19. Find the odd one from the given words
(a) Delhi (b) Bangalore
(c) Mumbai (d) Rangoon

20. In a certain code PRAISE is written as #@$27% and RESPIRE is written as @%7#2@%. How is REPAIR written in that code?
(a) @%$2#@ (b) #2@%$@
(c) %@#$2@ (d) @%#$2@

21. Jaundice is caused due to the infection of ..... .
(a) brain (b) kidney
(c) liver (d) None of these

22. Which blood cell acts as soldiers of our body?
(a) White blood cells (b) Red blood cells
(c) Plasma (d) None of these

23. Which none metal is used in water purification?
(a) Phosphorous (b) Bromine
(c) Chlorine (d) Sulphur

24. What is the heartbeat of a healthy person per minute?
(a) 120-150 (b) 70-100
(c) 50-69 (d) 110-120

25. What are corals?
(a) Sea animals (b) Sea plant
(c) Forest wood (d) None of these

26. If there is a deficiency of growth hormone in the child, then the child becomes ..... .
(a) blind (b) dwarf
(c) mentally retarded (d) giant

27. Which of the following is a synthetic fibre?
(a) Jute (b) Cotton
(c) Nylon (d) Silk

28. Which instrument is used to measure humidity?
(a) Barometer (b) Hydrometer
(c) Hygrometer (d) None of these

29. Where is National Chemical Laboratory located?
(a) Hyderabad (b) Pune
(c) Mumbai (d) Bengaluru

30. Which metal is extracted from sea?
(a) Potassium (b) Aluminum
(c) Beryllium (d) Magnesium

31. Which of the following is the best conductor of electricity?
(a) Salt water (b) Hot water
(c) Distilled water (d) Cold water

32. Which of the following is the most consumed grain in the world?
(a) Wheat (b) Millet
(c) Maize (d) Rice

33. The chemical name for caustic soda is ..... .
(a) Sodium Hydroxide (b) Sodium Hydro
(c) Sodium Nitrate (d) Sodium Chloride

34. What is the main source of energy for the planet Earth?
(a) Moon (b) Fire (c) Sun (d) Wind

35. Who developed Hydrogen Bomb?
(a) Wernher Von Braun
(b) Edward Teller
(c) Samual Cohen
(d) None of these

36. Find the total surface area of a cube with side 7 cm.
(a) 294 (b) 343 (c) 196 (d) 49

37. On the basis angle, how many types triangle are there?
(a) 3 (b) 6 (c) 7 (d) 5

38. The circumference of a circular field is 88 km, find its radius is kilometers.
(a) 0.14 (b) 14
(c) 16 (d) 7

39. Ram spent ₹ 0.50 per day on NEWS paper. His bill for February 2003 will be for how much rupees?
(a) 14 (b) 15.5 (c) 30 (d) 15

40. Find 70% of 449
(a) 333.3 (b) 349.3
(c) 314.3 (d) 339.3

41. $\frac{3.75}{2.5} = ?$
(a) 1 (b) 2 (c) 1.5 (d) 2.5

42. Fill in the blank.
$(15)^2 = ...$
(a) 24 (b) 205 (c) 215 (d) 225

43. 18 to be multiplied with which smallest number make a perfect square?
(a) 5 (b) 4 (c) 3 (d) 2

44. If two angles of a triangle are 45 degree and 75 degree, then find the third angle.
(a) 90 (b) 60 (c) 75 (d) 45

45. Solve $\frac{4}{10} + \frac{5}{100} + \frac{7}{1000} = ?$
(a) $\frac{400}{1000}$ (b) $\frac{16}{1110}$
(c) $\frac{457}{1000}$ (d) $\frac{140}{1110}$

46. Complete the series.
3, 11, 27, 59, ...
(a) 96 (b) 123 (c) 118 (d) 99

47. The sum of two numbers is 8. If the sum is four times their difference, then the numbers are ..... & .....
(a) 1, 7 (b) 4, 4 (c) 6, 2 (d) 3, 5

48. $(5a + 7b)^2 =$
(a) $(a^2 - 60ab - 49b^2)$ (b) $(25a^2 + 70ab + 49b^2)$
(c) $(25a^2 - 70ab + 49b^2)$ (d) $(25a^2 - 60ab - 49b^2)$

49. $\frac{(35614 - 26889)}{25} = ...$
(a) 359 (b) 349 (c) 329 (d) 339

50. Choose the right answer:
$12x - 1 = 143$ then $x = ...$
(a) 23 (b) 13
(c) 12 (d) 14

Answers

1 (c)	2 (b)	3 (b)	4 (c)	5 (b)	6 (b)	7 (c)	8 (c)	9 (d)	10 (c)
11 (d)	12 (a)	13 (b)	14 (d)	15 (a)	16 (a)	17 (c)	18 (d)	19 (d)	20 (d)
21 (c)	22 (a)	23 (c)	24 (b)	25 (a)	26 (b)	27 (c)	28 (c)	29 (b)	30 (d)
31 (a)	32 (d)	33 (a)	34 (c)	35 (b)	36 (a)	37 (a)	38 (b)	39 (a)	40 (c)
41 (c)	42 (d)	43 (d)	44 (b)	45 (c)	46 (b)	47 (d)	48 (b)	49 (b)	50 (c)

Solutions

1. (c) Sachin Tendulkar is associated with cricket. Tendulkar is an Indian former international cricketer who captained the Indian national team. He is regarded as one of the greatest batsmen in the history of cricket. He is the all-time highest run-scorer in both ODI and Test cricket with more than 18000 runs and 15000 runs respectively in total. He was honoured with Arjuna Award (1994), Khel Ratna (1997), the Padma Shri and Padma Vibhushan awards in 1999 and 2008, respectively, and Bharat Ratna (2013), India's highest civilian award.

2. (b) The Brazilian football player Neymar Jr. became the new ambassador of Handicap International on 15th August, 2017. Through this partnership, Neymar is using his huge fame for a good cause i.e., to support the most vulnerable people in the world, people with disabilities in poor countries, victims of conflicts and natural disasters. He plays as a forward for Ligue 1 club Paris Saint-Germain and the Brazil national team.

3. (b) Simplicity of clothing was symbol of 'equality' in France. Both men and women began wearing loose and comfortable clothing. Political symbols were also reflected in clothing. The French Revolution was started in 1789. The French Revolution has raised the question of liberty, equality and autocratic privileges.

4. (c) The childhood name of Mahatma Buddha (563 BCE to 483 BCE) was Siddhartha.

He was born in Lumbini in modern day Nepal. His father was Suddhodan, the chief of the Shakya clan. He attained enlightenment at Bodh Gaya, Bihar.

5. (b) After the Lok Sabha election held in 2019, the government was formed under the Prime Ministership of Narendra Modi. Modi is an Indian politician serving as the 14th and current Prime Minister of India since 2014. Modi was the Chief Minister of Gujarat from 2001 to 2014. He is the Member of Parliament from Varanasi. He is a member of the Bharatiya Janata Party (BJP) and of the Rashtriya Swayamsevak Sangh (RSS), a right-wing Hindu nationalist paramilitary volunteer organisation. He is the longest serving Prime Minister from outside the Indian National Congress.

6. (b) Coal is the most important raw material for generation of power in India. In India, power is generated from conventional (Thermal, Nuclear and Hydro) and renewable sources (Wind, Solar, Biomass etc.). However, major production of electricity is achieved through coal, a thermal power plant which is around 75% of the total power generation.

7. (c) According to the Census 2011 of India, Sikkim is the least populous state in India with a population of 6,07,688. Uttar Pradesh is the highly populated state in India. The population of this state is around 19.96 crores. Sikkim shares its borders with China in the North and Northeast, Bhutan in the East, Nepal in the West, and West Bengal in the South.

8. (c) President of India is nominated for a term of 5 years. The Indian President is the Head of the State and he is also called the first citizen of India. Article 52 of the Indian Constitution mentions that there shall be a President of India. Droupadi Murmu is an Indian politician who has been serving as the 15th President of India since 25th July, 2022. She is the first person belonging to the tribal community and also the second woman after Pratibha Patil to hold the office.

9. (d) Valswik was not a Varna of Indian society. Varna in the context of Hinduism, refers to a social class within a hierarchical caste system. The ideology is epitomised in texts like *Manusmriti*, which describes and ranks four Varnas, and prescribes their occupations, requirements and duties, or Dharma.

Brahmins Vedic scholars, priests or teachers
Kshatriyas Rulers, administrators or warriors
Vaishyas Agriculturalists, farmers or merchants
Shudras Artisans, labourers or servants

10. (c) The Opium War is the name given to the fighting between Britain and China. The First Opium War was fought from 1839 to 1842 between China and the United Kingdom, and was triggered by the Chinese Government's campaign to enforce its prohibition against opium trafficking by British merchants. The Second Opium War was waged by Britain and France against China from 1856 to 1860.

11. (d) Tooth enamel is the hardest substance in the human body. It helps to keep teeth strong and fights against cavity. It also helps teeth from decaying and erosion due to chewing and biting.

12. (a) The caves of Ajanta and Ellora belonged to Buddhists. The caves were developed in the period between 200 B.C. to 650 A.D.