

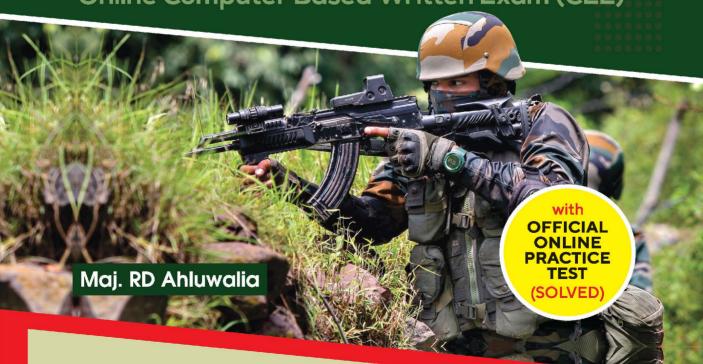


INDIAN ARMY

AGHILLES GENERAL DUTY

PHASEI

Online Computer Based Written Exam (CEE)



AGNIERAL DUTY

Phase I

Online Computer Based Written Exam (CEE)



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Phase I

Online Computer Based Written Exam (CEE)

Maj. RD Ahluwalia



Arihant Publications (India) Ltd.



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Indian Army

Agniveer General Duty

Official Online Practice Test

1. Who was to Sikhs?	he tenth and	l the last Guru of the	10. Where is the headquarters of the Internation Court of Justice?				nternational	
	an Dev	(b) Guru Gobind Singh (d) Guru Nanak Dev		(a) Rome (b) Paris	ue (Netherlan	ds)		
(a) Chanakya	ı	(b) Banabhatta	11	(d) Washingt The Jallian	on			
(c) Aryabhat3. The famou(a) Kalidas		(d) None of these t Govind' was written by (b) Banabhatta	,,,	(a) Phagwara (c) Gandhina		(b) Amritsa (d) Ferozep	r	
(c) Jayadev		(d) Mirabai	12.	Ahmedabad	d is located	on the bank	s of which	
4. Where is the (a) London(c) Geneva	ne Headquai	ter of United Nations? (b) New York (d) New Delhi		(a) Narmada (c) Luni rive		(b) Banas ri (d) Sabarma		
5. The National Aeronautical Laboratory is situated at			13.	share land	Which state amongst the following does not share land boundary with Tamil Nadu? (a) Telangana (b) Andhra Pradesh (c) Kerala (d) Karnataka			
sportsmen	women in I	(d) Delhi en to the distinguished ndia is known as	14.	When did (a) 1939-43 (c) 1934-36			5	
(a) Bharat A (c) Urvashi A		(b) Nehru Award (d) Arjuna Award	15.	When did	~		C	
7. Who is pre (a) Smriti Ira (c) Sushma S	ıni	oreign Minister of India? (b) Arun Jaitley (d) S. Jaishanker	16.	(a) 1929 Who discov (a) Albert Ein		(c) 1940 n? (b) John Er	(d) 1929 mburey	
	he first lady	Sultan of India? (b) Kohinoor (d) Mumtaz Mahal	17.	(c) Graham I Formation (a) Lactobaci	of curd by 1	(d) Joseph	•	
(a) Bhagat Si (b) JL Nehru	ngh 1 1. Mohan Sing	of Indian National Army. _t h	18.	(c) Moulds Which gas atmosphere (a) Carbon n (c) Argon	e? nonoxide	(d) None o in abundan (b) Oxygen (d) Nitroge	ce in	

(c) Argon

(d) Nitrogen

Official Online Practice Test

19.	What is Orion? (a) Constellation (c) Galaxy	(b) Meteor (d) Planet	32. If $x + y = 4$ and $\frac{1}{x} + \frac{1}{y} = 4$, then find the of $x^3 + y^3$.	value		
20.	is essential in so (a) Carbon dioxide (c) Nitrogen	il for plant growth. (b) Oxygen (d) Hydrogen	(a) 52 (b) 25 (c) 4 (d) 64 33. If 10 men can do a piece of work in 4 da	uve how		
21.	Polio is caused by a type (a) bacteria (c) fungus	e of (b) virus (d) None of these	many men will be required to get the sar done in 5 days? (a) 8 (b) 6			
22.	Which type of pollution rain? (a) Soil pollution (c) Water pollution	n is responsible for acid (b) Air pollution (d) Noise pollution	(c) 12 (d) 10 34. The average of 3, 6, 9, 6 is (a) 20 (b) 6 (c) 22 (d) 8			
23.	How many colours are light? (a) 5 (b) 1	there in a spectrum of (c) 7 (d) 3	35. A batsman scores 80 runs in his sixth innings are thus increases his average by 5. What is haverage after six innings?			
24.	Urea fertiliser is (a) nitrogenous (c) phosphoric	(b) potassium based (d) mixed	(a) 65 (b) 60 (c) 50 (d) 55 36. What is 25% of 200?			
25.	What is required for the photosynthesis? (a) Chlorophyll (b) Carbon dioxide and wa (c) Sunlight (d) All of the above		(a) 55.5 (b) 50 (c) 100 (d) 150 37. Which among the following is the larges digit number that is divisible by 88? (a) 9944 (b) 9988 (c) 9966 (d) 6888	t four		
26.	In nuclear reactor, heav (a) moderator (c) coolant	y water is used as (b) atomic smasher (d) fuel	38. A man loses 10% by selling his watch fo Find the cost price of the watch.(a) ₹ 500(b) ₹ 140	r ₹ 450.		
27.	What is the chemical for (a) ZnC (b) NaCl	rmula of salt? (c) NaOH (d) KCl	(c) ₹ 600 (d) ₹ 400 39. The number 20% more than 80 is			
28.	is produced by the (a) Electricity (c) Thunder	ne vibration of bodies. (b) Light (d) Sound	(a) 96 (b) 30 (c) 90 (d) 36 40. 34.36 – 45.67 + 86.56 = ? + 37.96			
29.	Which colour objects al (a) White (c) Green	bsorb the most heat? (b) Black (d) None of these	(a) 37.29 (b) 36.29 (c) 37.49 (d) 32.29 41. A number added to its two-thirds is equal to the control of the	al to 35		
30.	` '	due to the deficiency of (b) Scurvy	Find the number? (a) 21 (b) 22 (c) 24 (d) 23			
31.	(c) Berry-Berry Ravi bought 1 shirt for ₹ 900, find his profit po (a) 9 (b) 2.5	(d) Rickets ₹ 800 and sold for	42. The area of a circle is 154 cm ² whose ra? (a) 7 (b) 8 (c) 6 (d) 5	dius is		

- **43.** The diagonal and one side of a rectangular field are 289 m and 161 m respectively. Find the other side.
 - (a) 220 m
- (b) 180 m
- (c) 230 m
- (d) 240 m
- **44.** A can do a piece of work in 8h while B alone can do in 16 h. In how many hours, both A and B working together can finish the work?
 - (a) $5\frac{1}{2}$ h
- (b) $5\frac{1}{4}$ h
- (c) $5\frac{1}{3}$ h
- (d) $5\frac{2}{3}$ l
- 45. In equilateral triangle, angles are
 - (a) 60,60,60
 - (b) 60, 80, 60
 - (c) 90,30,60
 - (d) 90, 45, 45

- **46.** Find the missing term in the series: 5760, 960, ?, 48, 16, 8
 - (a) 192
- (b) 240
- (c) 120
- (d) 160
- **47.** If TOM means 48 and DILB means 27, then HARRY stands for
 - (a) 50
- (b) 60
- (c) 67
- (d) 70
- 48. Hat: Head:: Spectacles:?
 - (a) Textiles
- (b) Eyes
- (c) Mouth
- (d) Hat
- **49.** In certain code word 'DELHI' is written in 'EFMIJ', then word 'BOMBAY' will be?
 - (a) MJXVSU
- (b) AIJMJX
- (c) AMJWUR
- (d) CPNCBZ
- **50.** 10, 16, 21, 25, ...
 - (a) 28
- (b) 31

- (c) 27
- (d) 29

⊗ Answers

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

Solutions

- 1. (b) Guru Gobind Singh was the tenth Sikh Guru, a spiritual master, warrior, poet and philosopher. When his father, Guru Tegh Bahadur, was executed by the Mughal ruler Aurangzeb, Guru Gobind Singh was formally installed as the leader of the Sikhs at the age of nine, becoming the tenth and final human Sikh Guru. He founded the Sikh warrior community called Khalsa in 1699 and introduced the Five Ks, the five articles of faith that Khalsa Sikhs wear at all times. Guru Gobind Singh is credited with the Dasam Granth whose hymns are a sacred part of Sikh prayers and Khalsa rituals. He is also credited as the one who finalised and enshrined the Guru Granth Sahib as Sikhism's primary scripture and eternal Guru.
- 2. (a) Chanakya (375-283 BCE) was an ancient Indian polymath who was active as a teacher, author, strategist, philosopher, economist, jurist and royal advisor. He is traditionally identified as Kautilya or Vishnugupta, who authored the ancient Indian political treatise, the Arthashastra, a text dated to roughly between the fourth century BCE and the third century CE. He lived in the court of first Mauryan king Chandragupta Maurya.
- 3. (c) 'The Gita Govinda' is a work composed by the 12th-century Hindu poet, Jayadeva. It describes the relationship between Krishna, Radha and gopis of Vrindavan. The Gita Govinda is organised into twelve chapters. Each chapter is further sub-divided into one or more divisions called Prabandhas, totalling twenty-four in all.
- 4. (b) The United Nations (UN) is an intergovernmental organisation whose stated purposes are to maintain international peace and security, develop friendly relations among nations, achieve international cooperation, and be a centre for harmonising the actions of nations. It is the world's largest and most familiar international organisation. The United Nations is headquartered in Midtown Manhattan, New York City, United States.
- 5. (b) National Aeronautical Research Laboratory was setup in Delhi in 1959. In March 1960, it set up an office in the palace of Maharaja of Mysore, Bengaluru. It is India's first and largest aerospace research firm established by the CSIR. It concentrates on research in advanced topics in aerospace and related disciplines.
- 6. (d) 'Arjuna Awards' are given to distinguished sportspersons for Outstanding Performance in Sports and Games. It is the second-highest sporting honour of India, the highest being the Major Dhyan Chand

- Khel Ratna Award. The award is named after Arjuna, one of the characters of the Sanskrit epic 'Mahabharata' of ancient India. It is presented by Sports Authority of India.
- 7. (d) Subrahmanyam Jaishankar is an Indian diplomat and politician who is serving as the present Minister of External Affairs of the Government of India since 30th May, 2019. He is a member of the Bharatiya Janata Party and a Member of Parliament in the Rajya Sabha.
- 8. (c) Razia Sultana, was the first lady ruler of the Delhi Sultanate. She was the first female Muslim ruler of the subcontinent, and the only female Muslim ruler of Delhi. She belonged to the Slave dynasty and was the daughter of Iltutmish.
- 9. (d) The Indian National Army was first formed in 1942 under Rash Behari Bose by Indian Prisoners of War (PoW) of the British-Indian Army captured by Japan in the Malayan campaign and at Singapore.

 This first INA, which had been handed over to Rash Behari Bose, collapsed and was disbanded in December that year after differences between the INA leadership and the Japanese military over its role in Japan's war in Asia. Rash Behari Bose handed over INA to Subhash Chandra Bose.
- 10. (c) The International Court of Justice is one of the six principal organs of the United Nations. It settles disputes between states in accordance with international law and gives advisory opinions on international legal issues.
 It is headquartered in The Haque (Netherlands).
- 11. (b) The Jallianwala Bagh massacre took place on 13th April, 1919 on the day of Baisakhi. A large peaceful crowd had gathered at the Jallianwala Bagh in Amritsar, Punjab, to protest against the Rowlatt Act and arrest of pro-independence activists Saifuddin Kitchlew and Satyapal.
 - The crowd gathered was attacked on the order of General Dyer that led to a huge mass killing.
- 12. (d) Ahmedabad is located in Gujarat on the banks of Sabarmati river. It is also known as the Manchester of India and is the largest city in the state of Gujarat. Ahmedabad is famous for its textile industry, and is known as the textile hub of India.
- 13. (a) Telangana does not share the border with the state of Tamil Nadu. Tamil Nadu is a state in southern India and is tenth largest Indian state by area and the sixth largest by population, Tamil Nadu is the home of the Tamil people, whose Tamil language is one of the longest surviving classical languages in the world.

- 14. (b) World War II or the Second World War was a global conflict that lasted from 1939 to 1945. The vast majority of the world's countries, including all of the great powers, fought as part of two opposing military alliances: the Allies and the Axis. The war was by far the deadliest conflict in human history which resulted in 70 to 85 million fatalities, mostly among civilians.
- 15. (b) The Quit India Movement, also known as the August Kranti Movement, was launched at the Bombay session of the All India Congress Committee by Mahatma Gandhi on 8th August, 1942, during World War II, demanding an end to British rule in India. The Quit India Movement has rightly been described as the most massive anti-imperialist struggle on the eve of Partition and Independence.
- **16.** (d) Oxygen is discovered by Joseph Priestly in 1774. Lavoisier recognised and named Oxygen in 1778. It is a highly reactive non-mental and an oxidizing agent. It's atomic number is 8.
- 17. (a) Formation of curd by milk is done by Lactobacillus. It produce lactic acid and reducing the pH of the milk. These bacteria convert the lactose into lactic acid.
- **18.** (d) Nitrogen gas is available in abundance in atmosphere which makes up about 78% of air. It is a non-metal and the lightest element of group 15 of the Periodic Table.
- 19. (a) Orion is a prominent constellation located on the celestial equator and visible throughout the world. It is the most conspicuous and recognisable constellation in the night.
- **20.** (c) Nitrogen is essential in soil for plant growth. It is a key component of amino acid which from the building blocks of plant proteins and enzymes.
- **21.** (b) Polio is caused by a type of Virus which is also known as Poliomellatis. It infects your throat and intestines. It can also spread to your brain and spine causing paralysis.
- **22.** (b) Acid rain is responsible for air pollution. This reaction begins when sulphur dioxide and nitrogen oxide are released into the air. These oxides are emitted by power plants and large industries.
- 23. (c) Spectrum of light has seven colours. When beam of light is passed through a glass prism the white light disperse into seven colours of light. The seven colours of spectrum of light are known as VIBGYOR. Violet has highest frequency and Red has lowest frequency.
- **24.** (a) Urea fertilizer is nitrogenous because of its high content of 46% of nitrogen. Urea provide the plants with nitrogen to promote green leafy growth and make plant look lush.

- 25. (d) Photosynthesis process required all of these substances like carbon dioxide, water, sunlight and chlorophyll to create oxygen and energy in the form of sugar.
- **26.** (a) In nuclear reactor, heavy water is used as moderator to slow down the neutrons produced during the fission reaction.
- **27.** (b) Salt chemical formula is NaCl. It is called sodium chloride ions. Salt is present in vast quantities in seawater. It is a form of a natural crystalline mineral.
- **28.** (d) Sound is produced by the vibration of bodies when it will be propagated through a medium from one point to another the energy produced in form of sound waves
- **29.** (b) Black colour object absorb the most heat because black colour object absorbs all wave length of light and reflected none.
- 30. (a) Goiter disease is caused due to deficiency of lodine. It can lead thyroid gland that is generating too less hormone or too much hormone and it is a lump or swelling at the front of the neck caused by a swollen thyroid.
- 31. (d) Cost price (CP) of the shirt

Seling price (SP) of the shirt

Profit percentage

$$= \frac{\text{Profit}}{\text{CP}} \times 100\%$$
$$= \frac{100}{800} \times 100\%$$
$$= 12.5\%$$

32. (a) Given, x + y = 4

$$\Rightarrow (x + y)^2 = 4^2$$

$$\Rightarrow x^2 + y^2 + 2xy = 16$$
Also,
$$\frac{1}{x} + \frac{1}{y} = 4 \Rightarrow \frac{x + y}{xy} = 4$$

$$\Rightarrow \frac{4}{xy} = 4 \Rightarrow xy = \frac{4}{4} = 1 \quad [\because x + y = 4]$$
Now, $x^3 + y^3 = (x + y)$

$$(x^{2} - xy + y^{2})$$

$$= (x + y)$$

$$= (x^{2} - xy + y^{2} + 2xy - 2xy)$$

$$= (x + y)(x^{2} + y^{2} + 2xy - 3xy)$$

$$= (x + y)[(x + y)^{2} - 3xy]$$
[: x + y = 4, xy = 1]

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$$= (4) [(4)^{2} - 3 \times 1]$$

$$= 4 [16 - 3]$$

$$= 4 \times 13$$

$$= 52$$

33. (a) Given,
$$M_1 = 10$$
, $D_1 = 4$,

$$M_2 = ?, D_2 = 5$$

We know that

$$\begin{array}{c} M_1D_1 = M_2D_2 \\ \Rightarrow \qquad \qquad 10 \times 4 = M_2 \times 5 \\ \Rightarrow \qquad \qquad M_2 = \frac{10 \times 4}{5} = 8 \end{array}$$

So, required number of men = $M_2 = 8$

34. (b) Required average

$$= \frac{3+6+9+6}{4} = \frac{24}{4} = 6$$

(d) Let the batsman's average score after 5th inning

Total runs after 5th inning =
$$5x$$

Given, $\frac{5x + 80}{6} = x + 5$
 $\Rightarrow 5x + 80 = 6x + 30$
 $\Rightarrow 6x - 5x = 80 - 30$

Bastsman's average after 6th inning = x + 5

x = 50

$$= 50 + 5 = 55$$

36. (b) 25% of 200 =
$$\frac{25}{100} \times 200 = 50$$

37. (a) Largest four digit number = 9999

So, the largest four digit number divisible by

$$88 = 9999 - 55 = 9944$$

38. (a) Given, loss % = 10%,

Selling price (SP) = ₹ 450

$$= \frac{100}{100 - \text{Loss}\%} \times \text{SP}$$

$$= \frac{100}{100 - 10} \times 450$$

$$= \frac{100 \times 450}{90}$$

$$= ₹ 500$$

39. (a) The number 20% more than 80
=
$$(100 + 20)$$
% of 80
= $\frac{120}{100} \times 80 = 96$

41. (a) Let the number be x.

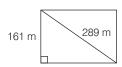
Given,
$$x + \frac{2}{3} \times x = 35$$

$$\Rightarrow \frac{3x + 2x}{3} = 35$$

$$\Rightarrow 5x = 35 \times 3$$

$$\Rightarrow x = \frac{35 \times 3}{5} = 21$$

42. (a) Area of a circle = πr^2 $\Rightarrow 154 = \frac{22}{7} \times r^2$ $\Rightarrow r^2 = \frac{154 \times 7}{22} = 49$ $\Rightarrow r = \sqrt{49} = 7 \text{ cm}$



By Pythagoras theorem,

Other side =
$$\sqrt{(289)^2 - (161)^2}$$

= $\sqrt{83521 - 25921}$
= $\sqrt{57600}$
= 240 m

44. (c) A's one hour work = $\frac{1}{8}$

B's one hour work = $\frac{1}{16}$

(A + B)'s one hour work

$$= \frac{1}{8} + \frac{1}{16}$$
$$= \frac{2+1}{16} = \frac{3}{16}$$

So, A and B together can finish the work in

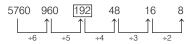
$$\frac{16}{3} = 5\frac{1}{3}$$
 h.

45. (a) In equilateral triangle, all three angles are equal to 60°

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7

46. (a) The pattern of the series is as follows



47. (d) Here, each word is coded as the sum of position of each letter of the word as in English alphabets.

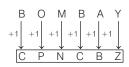
$$T_{20} O_{15} M_{13}$$
 $\Rightarrow 20 + 15 + 13 = 48$
 $D_4 I_9 L_{12} B_2$
 $\Rightarrow 4 + 9 + 12 + 2 = 27$
Similarly.
 $H_8 A_1 R_{18} R_{18} Y_{25}$
 $\Rightarrow 8 + 1 + 18 + 18 + 25 = 70$

48. (b) A hat is used to cover head. Similarly, Spectacles are use to cover eyes.

49. (d) Here,



Similary,



50. (a) The pattern of the series is as follows,

