General Awareness

01. Arrange the following oceans in the decreasing order (in terms of size).
    (a) Pacific ocean – Atlantic Ocean – Indian Ocean
    (b) Atlantic ocean – Indian ocean – Pacific Ocean
    (c) Arctic ocean – Indian Ocean – Pacific Ocean
    (d) Pacific Ocean – Indian Ocean – Atlantic Ocean

02. Who is the first Lieutenant Governor of the recently formed Jammu and Kashmir UT?
    (a) Girish Chandra Murmu
    (b) Shri Banwarilal Purohit
    (c) Dr. Tamilisai Soundararajan
    (d) Smt. Anandiben Patel

03. Donald Trump, the president of US recently launched a new military service to protect US' space missions, called?
    (a) Space Ex
    (b) Space Command
    (c) Space Zone
    (d) Space Force

04. The first state in India to pass anti-CAA (Citizenship Amendment Act) resolution was?
    (a) West Bengal
    (b) Assam
    (c) Kerala
    (d) Telangana

05. Which of the following is an abiotic component of an ecosystem?
    (a) Plants
    (b) Animals
    (c) Dead organic matter
    (d) Microbes

06. Amalgam is a term used for an alloy with the metal?
    (a) Copper
    (b) Mercury
    (c) Tin
    (d) Iron

07. Who won the 2019 Women's World Rapid Chess Champion title?
    (a) Koneru Hampi
    (b) Lei Tingjie
    (c) Judit Polgá
    (d) Hou Yifan

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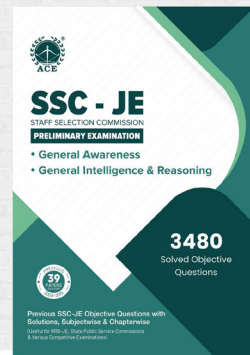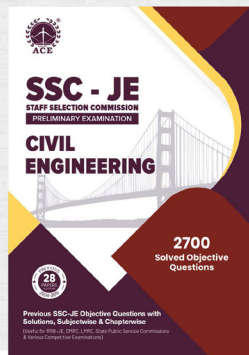
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08. Which Indian state celebrates Hornbill festival?
(a) Assam (b) Manipur
(c) Nagaland (d) Meghalaya

09. Who among the following is known for his work on medicine during the Gupta period?
(a) Samudra gupta (b) Sushrutha
(c) Sudraka (d) Simuka

10. Silapaddikaram' and 'Manimekalai' are the immortal epic works belonging to which of the following period?
(a) Gupta age (b) Pre mauryan age
(c) Sangam age (d) Harappan age

11. The role of Supreme Court collegium is?
(a) To review cases sent to it by High Courts (b) To take fresh cases on fundamental rights issues
(c) To appoint judges to the Supreme court (d) To review all death penalty cases

12. The controversial Citizenship (Amendment) Bill 2019 seeks to provide Indian citizenship to non-Muslims from which of the following countries?
(a) Bangladesh, Afghanistan, Pakistan (b) Bangladesh, Myanmar, Nepal
(c) Myanmar, Nepal, Sri Lanka, Pakistan (d) Pakistan, Afghanistan, Myanmar

13. Which countries are separated by MacMohan line?
(a) India and Pakistan (b) India and Bangladesh
(c) Tibetan region of China and India (d) India and Myanmar

14. Money bill can be introduced in?
(a) Lok sabha only (b) Rajya sabha only
(c) Either lok sabha or rajya sabha (d) Joint sitting of the parliament

15. ICAR stands for?
(a) The Indian Council of Astronomical Research (b) The Indian Council of Aeronautical Research
(c) The Indian Council of Aviation Research (d) The Indian Council of Agricultural Research

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16. Teesta River, Lohit River, Dibang River are tributaries of?
    (a) Brahmaputra river   (b) The Ganges
    (c) The Godavari   (d) Narmada river

17. Who is the current Managing Director of International Monetary Fund?
    (a) Tao Zhang   (b) David Lipton
    (c) Kristalina Georgieva   (d) Christine Lagarde

18. India by the Nile' is a cultural festival celebrated by which of the following countries?
    (a) India and South Africa   (b) India and Egypt
    (c) India and UK   (d) India and Nigeria

19. Who appoints Attorney General of India?
    (a) The President   (b) The Prime minister
    (c) Council of Ministers   (d) Chief Justice of Supreme Court

20. Who was elected the President of Indian National Congress in the famous Tripuri Session of 1939?
    (a) Subash Chandra Bose   (b) Jawaharlal Nehru
    (c) Mahatma Gandhi   (d) J B Kripalani

21. The first female ruler of Delhi was?
    (a) Chand bibi   (b) Razia sultana
    (c) Nur jahan   (d) Jahan ara

22. In India, which/who among the following decides the savings bank rate?
    (a) Central government   (b) The President
    (c) Reserve Bank of India   (d) Banks themselves

23. Which language was mostly used for the propagation of Buddhism in ancient period?
    (a) Sanskrit   (b) Pali
    (c) Prakrit   (d) Sauraseni

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24. Which of the following is responsible for giving colour to human skin?
    (a) Melanin   (b) Hemoglobin
    (c) Carotenoids   (d) Luciferin

25. India's only active volcano is located at which among the following places?
    (a) Lakshadweep   (b) Maya Bunder
    (c) Barren Island   (d) Minicpy island

26. Which of the following is referred to as 'Golden mine of timber'?
    (a) Andaman islands   (b) Lakshadweep islands
    (c) Maharashtra   (d) Nagaland

27. 'Bull' and 'Bear' are associated with which of the following economic activity?
    (a) Banking   (b) Taxation
    (c) Share market   (d) Foreign exchange

28. Which city will play host to the 2022 Common Wealth Games?
    (a) London   (b) Birmingham
    (c) Gold coast   (d) Tokyo

29. Which among the following is not correctly matched?
    (a) Article 360 – Financial Emergency   (b) Article 280 – Finance Bill
    (c) Article 368 – Amendment of the Constitution   (d) Article 323 A – Administrative tribunals

30. Which among the following is a correct statement about the French Revolution?
    (a) It gave women the right to vote
    (b) It gave France a permanent republican government
    (c) It awakened the republican goals among the French commoners
    (d) It started industrialization in France

31. What is full form of BOD?
    (a) Biological Oxygen Demand   (b) Biodiversity of Distribution
    (c) Biological oxygen Deficit   (d) Biodiversity of Demand

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32. Which of the following rainfall is caused by intense evaporation in equatorial areas?
    (a) Orographic rainfall   (b) Convectional rainfall
    (c) Cyclonic rainfall   (d) Torrential rainfall

33. Which of the following is the most abundant metal on Earth's crust?
    (a) Copper   (b) Zinc
    (c) Aluminium   (d) Iron

34. The second phase of Intensified Mission Indradhanush 2.0 began recently. What is the scheme associated with?
    (a) Universal Vaccination   (b) Universal health insurance
    (c) Life insurance to all   (d) Bank mergers

35. Australia recently witnessed which disaster that killed many lives and caused huge destruction?
    (a) Tsunami   (b) Wild fire
    (c) Cyclone   (d) Earthquake

36. Qassim Soleimani, who was killed in the US air strike, was the Military Commander of which country?
    (a) Iraq   (b) Bahrain
    (c) Iran   (d) Syria

37. The excretory organ is?
    (a) Liver   (b) Heart
    (c) Kidney   (d) Stomach

38. Botanical name for black pepper is?
    (a) Curcuma domestica   (b) Myristica fragrans
    (c) Piper nigrum   (d) Syzygium aromaticum

39. Master gland in human body is?
    (a) Adrenal   (b) Pituitary
    (c) Thyroid   (d) Thymus

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40. Lack of which of the following causes delay in blood clotting?
    (a) Vitamin K   (b) Vitamin D
    (c) Vitamin B12   (d) Vitamin B3

41. Which particles will travels at a speed of light is ?
    (a) Alpha particles   (b) β - Particles
    (c) γ particles   (d) All the above

42. Surface tension doesn't depends upon on the which of the following?
    (a) Surface area   (b) Nature of liquid
    (c) Temperature   (d) Contaminants

43. _____ is an electronic device that processes data converting it into information
    (a) Processor   (b) Computer
    (c) Case   (d) Stylus

44. Washing machine works on the principle of, which of the following force.
    (a) Centripetal force   (b) Centrifugal Force
    (c) Frictional force   (d) Surface tension force

45. Energy possessed by a person in a moving train is
    (a) P.E   (b) K.E
    (c) Mechanical energy   (d) Heat energy

46. Gold will melt in which of the following solution ?
    (a) Sulphoric acid   (b) Aquaregia
    (c) Hydrochloric acid   (d) Sodium hydroxide

47. Which of the following is popularity known as soda gas
    (a) CO   (b) CO_2
    (c) SO_2 (d) H_2S

48. Which of the following is "Gun Cotton"
    (a) Gun metal   (b) Cellulose Nitrate
    (c) TNT   (d) Glycogen

49. National Environmental Engineering Research Institute (NEERI) is in
    (a) Nagpur   (b) Ranchi
    (c) Tiruchi   (d) Visakapatanam

50. What is meant by the term RAM?
    (a) Memory which only be read   (b) Memory which both read & written
    (c) Memory which is used for permanent storage (d) Memory which can only be written

General Intelligence & Reasoning

01. Find the missing term(s) in the series given below.
    15, 140, ?, 10000, 69993, 419952
    (a) 1193   (b) 1187   (c) 1251   (d) 1273

02. Find the missing term(s) in the series given below.
    13, -21, 34, -55, 89, ?
    (a) – 96   (b) – 144   (c) 123   (d) 104

03. Find the missing term(s) in the series given below.
    2, 3, 6, 18, 108,…
    (a) 54   (b) 1002   (c) 216   (d) 1944

04. Find the missing term(s) in the series given below.
    QPO, NML, KJI, _____, EDC
    (a) HGF   (b) CAB   (c) JKL   (d) GHI

05. Which letter should come next in the series F, G, H, J, K, L, M, N, P, _?
    (a) Q   (b) R   (c) T   (d) O

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06. Find the missing pair in the series, EQ, FS, HW, KA, __, TL.
    (a) OF   (b) OB   (c) AL   (d) AM

07. Pick the odd one out from the given options.
    (a) WSXZ   (b) NJLO   (c) HDFI   (d) SOQT

08. Pick the odd one out from the given options.
    (a) ADG   (b) HKN   (c) PSW   (d) MPS

09. Pick the odd one out from the given options.
    (a) AFB   (b) MRN   (c) KPL   (d) RXS

10. Pick the odd one out from the given options.
    (a) TRIANGLE   (b) SQUARE   (c) PENTAGON   (d) CIRCLE

11. Pick the odd one out from the given options.
    (a) Square   (b) Triangle   (c) Rectangle   (d) Cuboid

12. Pick the odd one out from the given options.
    (a) Spoon   (b) Sword   (c) Knife   (d) Fork

13. Pick the odd one out from the given options.
    (a) 63   (b) 17   (c) 13   (d) 23

14. Pick the odd one out from the given options.
    (a) 222   (b) 10   (c) 68   (d) 125

15. Pick the odd one out from the given options.
    (a) 55 – 44   (b) 121 ÷ 11   (c) 11 + 1   (d) 11 × 1

16. Select the right option from the given alternatives.
    FILM: ADGH : : MILK : ?
    (a) ADGF   (b) HDGE   (c) HDGF   (d) HEGF

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17. Select the right option from the given alternatives.
    QPS: TSV :: IHK : ?
    (a) LKN   (b) NQP   (c) MKN   (d) LOM

18. Select the right option from the given alternatives.
    QDXM: SFYN :: UIOZ: ?
    (a) PAQM   (b) LPWA   (c) QNLA   (d) WKPA

19. Select the right option from the given alternatives.
    42: 56 : : 110: ?
    (a) 18   (b) 126   (c) 132   (d) 140

20. Select the right option from the given alternatives.
    6: 60 :: 120 : ?
    (a) 240   (b) 12   (c) 336   (d) 210

21. Select the right option from the given alternatives.
    985: 874:: 763: ?
    (a) 641   (b) 542   (c) 722   (d) 652

22. Select the right option from the given alternatives.
    Book: Publisher: : Film: ?
    (a) Producer   (b) Director   (c) Writer   (d) Editor

23. Fast is to Running as Slow is to?
    (a) Walking   (b) Pace   (c) Turtle   (d) Lazy

24. Select the right option from the given alternatives.
    ice: cold :: steel: ____
    (a) hard   (b) loud   (c) fresh   (d) small

25. Which of the given words can be formed using the letters of the below given set?

    {a, e, f, k, d, p, r, s, o, i, l, m, n, t}

    (a) DISMAL   (b) DISOBEY   (c) ESTABLISH   (d) REPUBLIC

26. Choose the answer option that arranges the given set of words in the 'most' meaningful order. The words when put in order should make logical sense according to size, quality, quantity, occurrence of events, value, appearance, nature, process etc.

    1. Judgement   2. Arrest   3. Police   4. Crime   5. Complaint   6. Court Hearing

    (a) 4,5,3,2,6,1   (b) 4,3,2,5,6,1   (c) 5,4,3,2,6,1   (d) 4,3,5,6,2,1

27. Arrange the words given below in a meaningful sequence.

    1. Key   2. Door   3. Lock   4. Room   5. Switch on

    (a) 5, 1, 2, 4, 3   (b) 4, 2, 1, 5, 3   (c) 1, 3, 2, 4, 5   (d) 1, 2, 3, 5, 4

28. Arrange the words given below in a meaningful sequence.

    1. Word   2. Paragraph   3. Sentence   4. Letters   5. Phrase

    (a) 4, 1, 5, 2, 3   (b) 4, 1, 3, 5, 2   (c) 4, 2, 5, 1, 3   (d) 4, 1, 5, 3, 2

29. Arrange the given words in alphabetical order and choose the one that comes first.

    (a) Animate   (b) Animosity   (c) Anguish   (d) Ankle   (e) Announce

30. Arrange the given words in alphabetical order and choose the one that comes first.

    (a) Blast   (b) Bottle   (c) Bondage   (d) Boisterous   (e) Bonafide

31. Arrange the given words in alphabetical order and choose the one that comes first.

    (a) Grind   (b) Growth   (c) Great   (d) Grease   (e) Greed

32. If A + B means A is the brother of B; A – B means A is the sister of B and A x B means A is the father of B. Which of the following means that C is the son of M?

    (a) M – N x C + F   (b) F – C + N x M   (c) N + M – F x C   (d) M x N – C + F

33. If in a certain code language "PAPER" is coded as "IVKZK", then how would "SALIENT" be coded in the same language?

    (a) GMVRONH   (b) GMVROPH   (c) GMVPOZH   (d) GMVROZH

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34. From a point Shalu starts walking towards North and after walking 20 meters, she turns to her right and walks 10 meters, then she turns right again and walks 20 m. Then, she turns to her left and walks 10 m and finally turns to her left and walks 20 m. In which direction is she with reference to the starting point?

    (a) North   (b) South   (c) North-East   (d) East

35. Philip was taking an evening stroll. He started walking North and walked for 50 metres, then he took a left turn and walked for another 20 metres, then he took a right turn and walked for 10 metres and sat on a bench there. In which direction does the bench lie from Philip's starting point?

    (a) North-West   (b) South-East   (c) South-West   (d) North

36. Find the odd one out among the options.
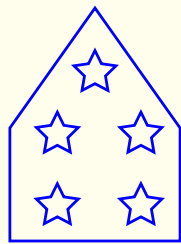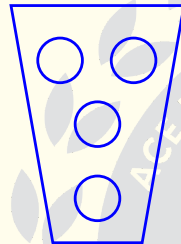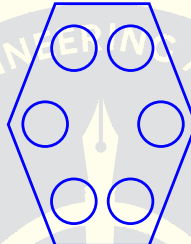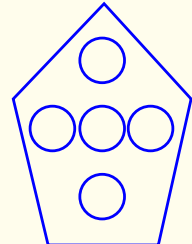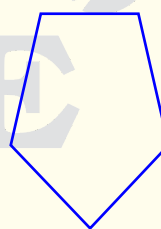
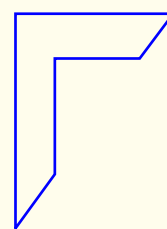

| A | B | C | D | E |

37. Pick the odd one out from the given options.
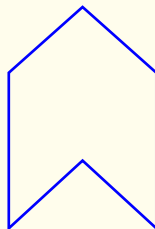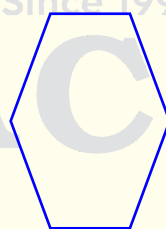
| A | B | C | D | E |

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ACE

GATE + PSUs – 2021 (Short Term Batches)				
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Short Term	Full Day Classes	28th April 2020	55 to 60 Days	ABIDS (CS&IT) DILSUKHNAGAR (EE, ME, PI) KUKATPALLY (EC, CE, INST)
		05th, 10th, 17th, 25th May 2020		
		01st & 08th June 2020		

GATE + PSUs – 2021 (Regular Batches)				
Batch Type	Timings	Batch Date	Duration	Venue & Streams
Regular	Daily 4 to 6 Hours	26th April 2020	5 to 6 Months	ABIDS (CS & IT)
		10th & 24th May 2020		
		08th & 23rd June 2020		
		07th & 22nd July 2020		
		26th April 2020	5 to 6 Months	DILSUKHNAGAR (EC, EE, INST, ME, PI) KOTHAPET (CE)
		10th & 24th May 2020		
		08th & 23rd June 2020		
		07th & 22nd July 2020		
		05th & 20th August 2020		
		17th May 2020	5 to 6 Months	KUKATPALLY, (EC, EE, ME, CE)
		01st & 15th June 2020		

| GATE + PSUs – 2021 (Spark Batches)				
Batch Type	Timings	Batch Date	Duration	Venue & Streams
Spark	Daily 4 to 6 Hours	10th May 2020,	5 to 6 Months	ABIDS (EC, EE, ME, CE, CS & IT)
		08th & 23rd June 2020		

ESE + GATE + PSUs – 2021 Regular Batches				
Batch Type	Timings	Batch Date	Duration	Venue & Streams
Regular	Daily 6 to 8 Hours	29th March 2020	9 to 10 Months	ABIDS (EE, EC) KOTHAPET (CE, ME)
		26th April 2020		
		10th & 24th May 2020		
		08th & 23rd June 2020		
		07th July 2020		

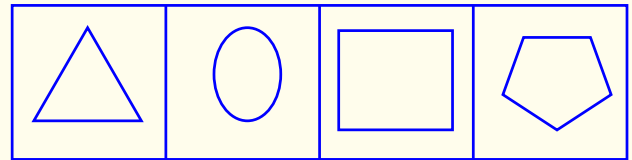| ESE + GATE + PSUs – 2021 Spark Batches				
Batch Type	Timings	Batch Date	Duration	Venue & Streams
Spark	Daily 6 to 8 Hours	10th May 2020,	9 to 10 Months	ABIDS (EC, EE, ME, CE)
		08th & 23rd June 2020		

38. Look carefully at the sequence of symbols to find the pattern. Select the correct pattern.
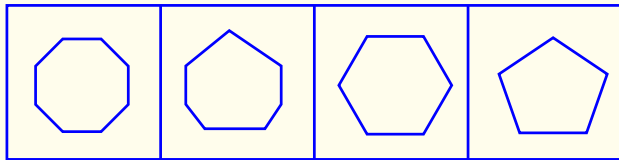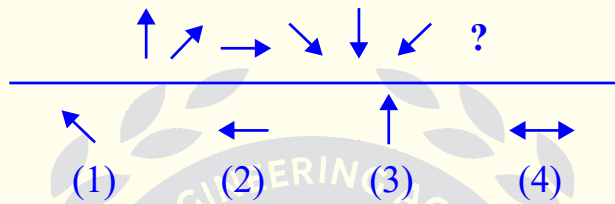

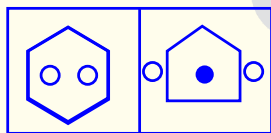
| 1 | 2 | 3 | 4 | A | B | C | D |

39. Look carefully at the sequence of symbols to find the pattern. Select the correct pattern.

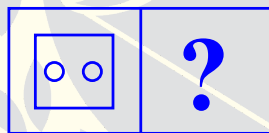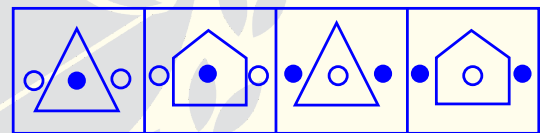(a) 1   (b) 2   (c) 3   (d) 4

40. Select the right option from the given alternatives.

| 1 | 2 | 3 | 4 | a | b | c | d |

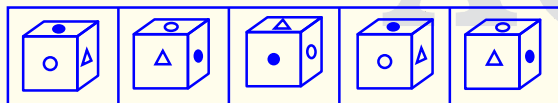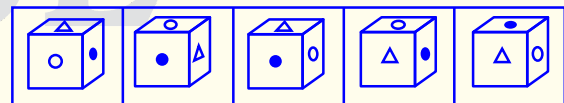41. Look carefully at the sequence of symbols to find the pattern. Select the correct pattern.

| A | B | C | D | E | 1 | 2 | 3 | 4 | 5 |

(a) 3   (b) 2   (c) 4   (d) 5

42. Choose the correct alternative from the given choices.
    If 5@6 = 131, 8@9 = 299, then 20@21 = ?
    (a) 1825　　　　　(b) 1691　　　　　(c) 1386　　　　　(d) 2025

43. If '+' means '−', '−' means '×', '×' means '÷', and '÷' mean '+' then $15 \times 3 \div 15 + 5 - 2 = ?$
    (a) 0　　　　　(b) 10　　　　　(c) 20　　　　　(d) 6

44. Rohan ranks 7th from the top and 26th from the bottom in the class. How many students are there in the class?
    (a) 31　　　　　(b) 32　　　　　(c) 33　　　　　(d) 34

45. In the following question, which answer figure will complete the question figure?

(a)　　　　　(b)　　　　　(c)　　　　　(d)
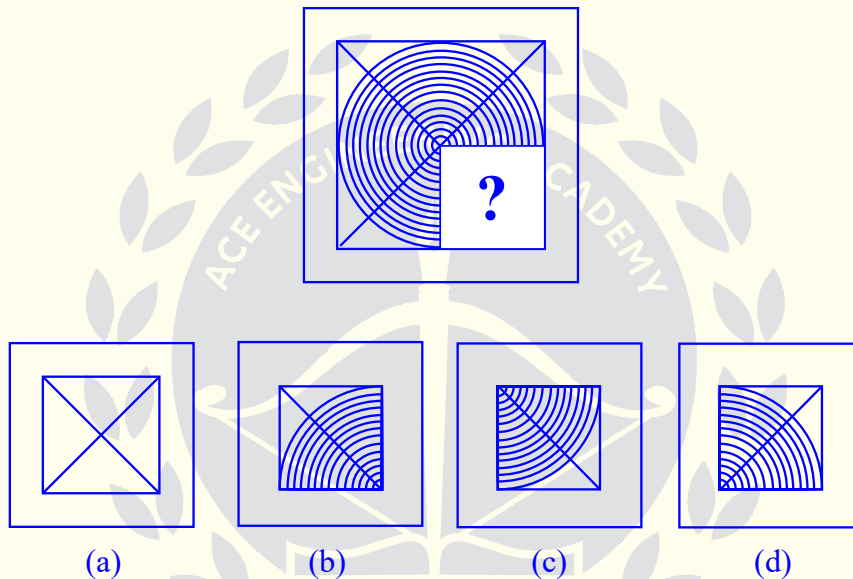
46. Which of the two conclusions can be concluded on the basis of given statements?
    Statements: I. All sides are lengths.　　　II. No length is a breadth.
    Conclusions: I. All lengths are sides　　　II. No breadth is a side

    (a) If only conclusion I follows.
    (b) If only conclusion II follows.
    (c) If either conclusion I or conclusion II follows.
    (d) If both conclusions I and II follows.

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47. Statement 1: All Dave are John Statement 2: All boys are Dave

    What conclusion can you draw based on these statements?

    (a) All boys are John

    (b) Some of the Dave are not John

    (c) None of the boys are John

    (d) None of these

48. X @ Y means X is not smaller than Y

    X % Y means X is not greater than Y

    X $ Y means X is neither smaller than nor greater than Y

    X # Y means X is neither greater than nor equal to Y

    X * Y means X is neither smaller than nor equal to Y

    Statements: W % E, P % E, P @ S.

    Conclusions: **I:** S * E   **II.** W $ S

    (a) Only conclusion I follows

    (b) Only conclusion II follows

    (c) Both conclusion I and conclusion II follow

    (d) Neither conclusion I nor conclusion II follows

    (e) Either conclusion I or conclusion II follows

49. In the following questions, a figure is followed by four suggested mirror reflections of it. Assuming that the mirror is placed to the right of the figure, pick out the correct reflected figure.
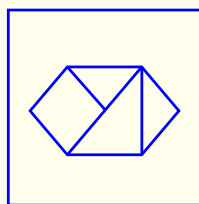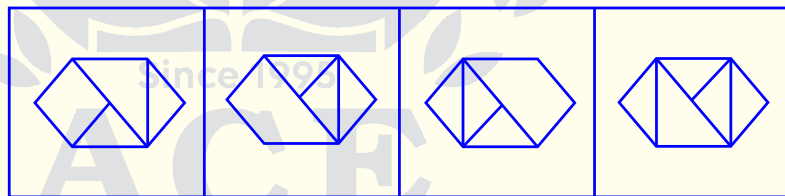
(X)   A   B   C   D

50. In the following questions, a figure is followed by four suggested mirror reflections of it. Assuming that the mirror is placed to the right of the figure, pick out the correct reflected figure.

(X)   A   B   C   D

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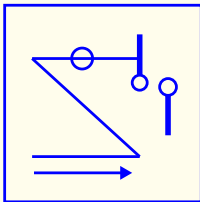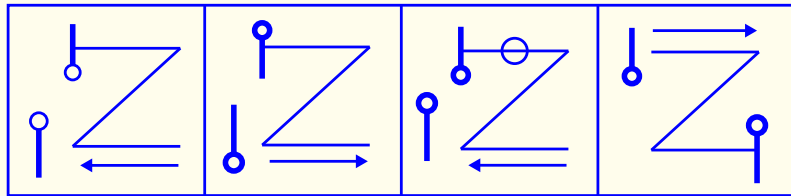
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General Awareness Detailed Solutions

01. Ans: (a)

Sol:

	Ocean / Sea	Area (sq km)	Area (sq miles)
1.	Pacific Ocean	181,343,000	70,017,000
2.	Atlantic Ocean	94,314,000	36,415,000
3.	Indian Ocean	74,118,000	28,617,000
4.	Arctic Ocean	12,256,000	4,732,000
5.	Coral Sea	4,791,000	1,850,000
6.	Arabian Sea	3,864,000	1,492,000
7.	South China Sea	3,686,000	1,423,000
8.	Caribbean Sea	2,753,000	1,063,000
9.	Mediterranean Sea	2,515,000	971,000
10.	Bering Sea	2,305,000	890,000

02. Ans: (a)

Sol: Girish Chandra Murmu is the first lieutenant governor of the Union territory of Jammu and Kashmir. He was a 1985 batch Indian Administrative Service officer of Gujarat cadre and was principal secretary to Narendra Modi during his tenure as Chief Minister of Gujarat.

03. Ans: (d)

Sol: Describing space as the world's newest war-fighting domain, US President Donald Trump officially launched US military 'Space Force' at an army base near Washington. Trump highlighted that the Space Force will help to deter aggression and control ultimate high ground.

04. Ans: (c)

Sol: The Kerala Government on December 31, 2019, passed a resolution to rollback the Citizenship Amendment Act (CAA) that was passed during this winter session of Parliament. According to the Kerala Government, the CAA act contradicts the basic principles of Constitution.

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05. Ans: (c)

Sol: The biotic components of ecosystem include the plants, animals and microbes i.e., total living community.

06. Ans: (b)

Sol: An amalgam is an alloy of mercury with another metal. It may be a liquid, a soft paste or a solid, depending upon the proportion of mercury.

07. Ans: (a)

Sol: Indian Grandmaster Koneru Humpy claimed the 2019 Women's World Rapid Chess Champion tiltle. The winner of Women's World Rapid Championship was decided in a playoff that ended with Humpy beating China's Lei Tingjie in a dramatic final in Moscow, Russia.

08. Ans: (c)

Sol: Every year the "Hornbill Festival" is celebrated between December 1 and December 10. It is also called Festival of Festivals. The festival is organized by the State Tourism and art and culture department in Kohima(Nagaland).

09. Ans: (b)

Sol: Susrutha Samitha was written by Susrutha. He was said to have been the best surgeon during the Gupta period.

10. Ans: (c)

Sol: The Sangam Age was the period of history of ancient Tamil Nadu and Kerala and parts of Sri Lanka (then known as Tamilakam) spanning from c. 6th century BCE to c. 3rd century CE. It was named after the famous Sangam academies of poets and scholars centered in the city of Madurai.

11. Ans: (c)

12. Ans: (a)

Sol: The Citizenship Amendment Act was enacted into law on 12 December 2019. The Amendment benefits Hindu, Sikh, Jain, Buddhist, Christian and Parsi refugees from Afghanistan, Pakistan and Bangladesh who sought refuge in India before 2015.

13. Ans: (c)

Sol: The McMahon Line is the demarcation line between the Tibetan region of China and the North-east region of India proposed by British colonial administrator Henry McMahon at the 1914 Simla Convention signed between British and Tibetan representatives. It is currently the effective boundary between China and India, although its legal status is disputed by the Chinese government.

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14. Ans:(a)

Sol: Money bill can be introduced only in loksabha and not in rajya sabha.

15. Ans: (d)

Sol: The Indian Council of Agricultural Research (ICAR) is an autonomous body responsible for co-ordinating agricultural education and research in India. It reports to the Department of Agricultural Research and Education, Ministry of Agriculture. The Union Minister of Agriculture serves as its president.

16   Ans: (a)

Sol: In Bangladesh, the Brahmaputra is joined by the Teesta River (or Tista), one of its largest tributaries. The Yarlung Tsangpo (Brahmaputra) enters the state of Arunachal Pradesh in India, where it is called Siang. It makes a very rapid descent from its original height in Tibet and finally appears in the plains, where it is called Dihang. It flows for about 35 km (22 mi) southward after which, it is joined by the Dibang River and the Lohit River at the head of the Assam Valley.

17. Ans: (c)

Sol: The Executive Board of the International Monetary Fund (IMF) selected Kristalina Georgieva to serve as IMF Managing Director and Chair of the Executive Board for a five-year term starting on October 1, 2019. Ms. Georgieva, who succeeds Christine Lagarde, is the first person from an emerging market economy to lead the IMF since its inception in 1944.

18. Ans: (b)

Sol: India by the Nile, India's largest ever cultural festival in Egypt, made its debut in 2013 in Cairo and Alexandria, in association with the Indian Embassy.

19. Ans: (a)

Sol: President of India appoints Attorney General.

20. Ans: (a)

Sol: Subhash Chandra Bose was re-elected the President of INC at the Tripuri Session in 1939 by defeating the Gandhi ji's Candidate Pattabhai Sitaramaiyya. He demanded that the Congress should deliver a six-month' ultimatum to Britain and in the event of its rejection a country-wide struggle for 'Poorna Swaraj' should be launched.

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21. Ans: (b)

Sol: Radhiyah bint Iltutmish or popularly known as Razia Sultana was the empress regnant of the Delhi Sultanate from 10 October 1236 to 14 October 1240. A member of the Mamluk dynasty, she is known for being one of the few women in history to have ruled a large empire and the first sovereign female ruler in both Islamic and Indian history.

22. Ans: (d)

Sol: The banks themselves fix the interest rates on saving accounts.

23. Ans: (b)

Sol: Pali or Magadhan is a Middle Indo-Aryan liturgical language native to the Indian subcontinent. It is widely studied because it is the language of the Pāli Canon or Tipiṭaka and is the sacred language of Theravāda Buddhism.

24. Ans: (a)

Sol: Melanin is a pigment that gives human skin, hair, and eyes their color. Dark-skinned people have more melanin in their skin than light-skinned people have. Melanin is produced by cells called melanocytes.

25. Ans: (c)

Sol: The Barren Island is located in the Union Territory of Andaman and Nicobar Islands and is the only confirmed active volcano in South Asia.

26. Ans: (a)

Sol: Dense forests in Andaman Islands, make them a golden mine of timber.

27. Ans: (c)

Sol: The terms "bull" and "bear" market are used to describe how stock markets are doing. A bull market is favorable and rises in value, while a bear declines.

28. Ans: (b)

Sol: The 2022 Commonwealth Games, officially known as the XXII Commonwealth Games and commonly known as Birmingham 2022, is an international multi-sport event for members of the Commonwealth that is scheduled to be held in Birmingham, England.

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29. Ans: (b)

Sol: Article 280 defines Finance Commission. Finance Bill comes under Article 112.

30. Ans: (c)

Sol: The French Revolution was motivated and shaped by several distinct ideas. Three of these ideas were encapsulated in a well-known revolutionary slogan: "Liberty! Equality! Fraternity!". The most concrete results of the French revolution were achieved in 1789-1791, when land was freed and the old corporate society was destroyed. The "abolition of feudalism" promoted individualism.

31. Ans: (a)

Sol: Biochemical Oxygen Demand is the amount of dissolved oxygen needed by aerobic biological organisms to break down organic material present in a given water sample at certain temperature over a specific time period.

32. Ans: (b)

Sol: Convectional rainfall happens when the land warms up, it heats the air above it. This causes the air to expand and rise. As the air rises it cools and and condenses. If this process continues then rain will fall.

33. Ans: (c)

Sol: Although aluminum is the most abundant metal in the earth's crust, it is never found free in nature. All of the earth's aluminum has combined with other elements to form compounds.

34. Ans: (a)

Sol: It aims to immunize all children under the age of 2 years, as well as all pregnant women, against eight vaccine preventable diseases.

35. Ans: (b)

Sol: Australia recently witnessed severe wild fires that killed nearly 25 people and destroyed several homes across the country. More than hundred bush fires were burning in New South Wales and they could not be controlled. Several million animals are also reported to be killed by the severity of bush fires.

36. Ans: (c)

Sol: The powerful Military Commander of Iran, General Qassim Soleimani was killed in the air strike conducted by the United States. The President of the US is said to have ordered a drone attack on the vehicles, in which the Iran military personnel were travelling near the Bhagdad Airport.

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37. Ans: (c)

Sol: Liver is an organ which detoxifies various metabolites, synthesizes proteins and produces biochemicals necessary for digestion and growth.

38. Ans: (c)

Sol: Black pepper (piper nigrum) is a flowering vine in the family piperaceae, cultivated for its fruit, known as pepper corn which is used as a spice and seasoning.

39. Ans: (b)

Sol: The Pituitary gland is a small pea sized gland that plays a major role in regulating vital body functions and general well being. It is referred to as 'Master gland' because it controls the activity of most other hormone secreting glands.

40. Ans: (a)

Sol: The human body requires Vitamin K for complete synthesis of proteins that are needed for blood coagulation or for controlling binding of calcium in bones and other tissues.

41. Ans: (c)	**42. Ans: (a)**	**43. Ans: (a)**	**44. Ans: (b)**
45. Ans: (c)	**46. Ans: (b)**	**47. Ans: (b)**	**48. Ans: (a)**
49. Ans: (a)	**50. Ans: (b)**		

General Intelligence & Reasoning Detailed Solutions

01. Ans: (c)

Sol: $(15 \times 10 - 10)$, $(140 \times 9 - 9)$, $(1251 \times 8 - 8)$, $(10000 \times 7 - 7)$, $(69993 \times 6 - 6)$

02. Ans: (b)

Sol: 13, 21, 13+21 = 34, 21+34 = 55, 34+55 = 89, 55+89 = 144.

Fibonacci series with alternate +, - sign.

03. Ans: (d)

Sol: 2, 3, 2×3 = 6, 3×6 = 18, 6×18 = 108, 18×108 = 1944.

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04. Ans: (a)
Sol: This series consists of letters in a reverse alphabetical order.

05. Ans: (a)
Sol: The series contains consonants in increasing order, so Q should come next in the series.

06. Ans: (a)
Sol: It is a mixed series.
   The pattern for the first letter of each segment is;
   E+1, F+2, H+3, K+4, O+5, T+6
   The pattern for the second letter of each segment is;
   Q+2, S+3, W+4, A+5, F+6, L+7
   Therefore, the missing pair is OF.

07. Ans: (a)
Sol: Observe 1st and last letters. We can identify WSXZ is different.

08. Ans: (c)
Sol: ADG   →   A+3 = D, D+3 = G.
   PSW   →   P+3 = S, **S+4 = W.**
   MPS   →   M+3 = P, P+3 = S.
   So, PSW is different.

09. Ans: (d)
Sol: AFB   →   A + 5 = F, F – 4 = B
   MRN   →   M + 5 = R, R – 4 = N
   KPL   →   K + 5 = 16, P – 4 = L
   RXS   →   R + 6 = X, X - 5 = S.
   So, RXS is different.

10. Ans: (d)
Sol: Except, Circle remaining are Polygons.

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11. Ans: (d)
Sol: All except Cuboids are 3 dimensional figures.

12. Ans: (b)
Sol: All except sword are used in kitchen

13. Ans: (a)
Sol: Except 63, all other numbers are prime numbers.

14. Ans: (d)
Sol: Except 125, remaining numbers are ($n^3 + 3$).

15. Ans: (c)
Sol: Except option C, remaining result is 11.

16. Ans:
Sol: FILM $\Rightarrow$ - 5 $\Rightarrow$ ADGH
MILK $\Rightarrow$ - 5 $\Rightarrow$ HDGE

17. Ans: (a)
Sol: QPS $\Rightarrow$ + 3 $\Rightarrow$ TSV
So, IHK $\Rightarrow$ +3 $\Rightarrow$ LKN

18. Ans:(d)
Sol: QDXM $\Rightarrow$ +2, +2, +1, +1 $\Rightarrow$ SFYN.
UIOZ $\Rightarrow$ +2,+2,+1,+1 $\Rightarrow$ WKPA.

19. Ans: (c)
Sol: 6×7: 7×8 :: 10×11: **11×12 = 132**

20. Ans: (c)
Sol: (1×2×3): (3×4×5): :(4×5×6): (6×7×8) **OR** ($2^3 - 2$): ($4^3 - 4$) :: ($5^3 - 5$): ($7^3 - 7$)

21. Ans: (d)
Sol: x: (x – 111)

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22. Ans: (a)
Sol: Publisher for book. Similarly, Producer is for Film.

23. An: (a)
Sol: If running is fast, then walking is slow – walking is the correct answer.

24. Ans: (a)
Sol: Because the relationship between *ice* and *cold* is that coldness is a quality of ice, the word that goes with *steel* is *hard*, since hardness is a quality of steel.

25. Ans: (a)
Sol: DISMAL can be formed using the given set of letters.

26. Ans: (b)
Sol: Logical sequence is Crime, Police, Arrest, Complaint, Court Hearing, Judgement.

27. Ans: (c)
Sol: The correct order is :

Key	Lock	Door	Room	Switch on
1,	3,	2,	4,	5

28. Ans: (d)
Sol The correct order is :

Letters	Word	Phrase	Sentence	Paragraph
4	1	5	3	2

29. Ans: (c)
Sol: Anguish, Animate, Animosity, Ankle, Announce

30. Ans: (a)
Sol: Blast, Boisterous, Bonafide, Bondage, Bottle

31. Ans: (d)
Sol: Grease, Great, Greed, Grind, Growth

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2	PRIYANKA GUPTA	IN
2	VINAY SEELAM	PI
3	ANKIT KULHARI	ME
3	IDRIS MANAQIBWALA	CE
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4	RAJ BHAWANI SINGH	IN
4	SIDDARTH WADHWA	ME
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5	PRADEEP KUMAR VERMA	EE
5	CHARMIN PATEL	ME
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5	RUTVIK LATHIA	XE
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6	RAJ ZUNKE	PI
7	CHIRAG RATHI	CE
7	SHREYANS MEHTA	CE
7	ANKIT KUMAR	EC
7	SAIKIRAN CHOLLETI	EC
7	DEEPITA ROY	EE
7	SHUBHAM MITTAL	EE
7	SAISH KALASKAR	IN
7	SHWETA YADAV	IN
7	AMIT LAL SHAH	PI
7	ANUJ MEENA	PI
9	RAVI SHANKAR MISHRA	CSIT
9	ARKA RAY	CSIT
9	RANJIT KUMAR SINGH	EC
9	DEEP ADHVARYU	IN
9	B. SREEKAR	IN
9	ATULYA JYOTI	PI
10	GEETH GEORGE	EE
10	ASIF KHAN	CE
10	MAHESH SINGH YADAV	ME
10	GARVIT GUPTA	XE
10	MANMOHAN ARORA	PI
10	SHUBHAM PANDE	PI

and many more...

	TOP 10	TOP 100
CE	5	44
ME	6	60
EE	7	71
EC	9	74
CS	5	28
IN	10	74
PI	10	49

32. Ans: (d)

Sol: M × N → M is the father of N

N – C → N is the sister of C and C + F → C is the brother of F.

Hence, M is the father of C or C is the son of M.

33. Ans: (d)

Sol: A → Z, B→Y, C→X, …. and Z→A are opposite pairs.

PAPER reverse is REPAP, opposite pair is IVKZK.

Similarly for SALIENT, we get GMVROZH

34. Ans: (c)

Sol: 20 North, 10 East, 20 South, 10 East, 20 North

$\Rightarrow$ 20 North, 20 East

$\sqrt{20^2 + 20^2} = 20\sqrt{2}$ North-East

So, North-East from starting point.

35. Ans: (a)

Sol: 50 North, 20 West, 10 North

$\Rightarrow$ 60 North, 20 West

So, North-West from starting point.

36. Answer: (d)

Sol: Except option D, remaining shapes have number of sides = number of elements inside the shape.

37. Ans: (d)

Sol: Except Option D, remaining has 6 sides.

38. Ans: (c)

Sol: Number of sides is decreased by 1.

39. Ans: (b)

Sol: North, NE, East, SE, South, SW, **West.** So, answer is B.

40. Ans: (a)

Sol: Hexagon $\Rightarrow$ Pentagon, Square $\Rightarrow$ Triangle

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41. Ans: (a)
Sol: Figure D = Figure A, Figure E = Figure B and Answer = Figure C.

42. Ans: (b)
Sol: $a@ b = \{(a + b)^2\} + 10$.

43. Ans: (b)
Sol: $15 \times 3 = 15 + 5 - 2$ after changing the signs $15 \div 3 + 15 - 5 \times 2 = 5 + 15 - 10 = 10$.
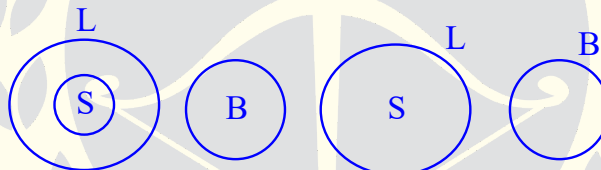
44. Ans: (b)
Sol: Clearly, the whole class consists of 6 students who have ranked higher than Rohan, and 25 students who have ranks lower than Rohan i.e. $6 + 1 + 25 = 32$ students.

45. Ans: (c)
Sol: Option C is best fitted.

46. Ans: (b)
Sol: Two possible diagrams are shown below for the given statements.

Conclusion I: False (conclusion follows from the second possibility but doesn't follow from the first possibility)
Conclusion II: True (conclusion follows from both the Venn diagram possibilities.)
Therefore, only conclusion II is true.

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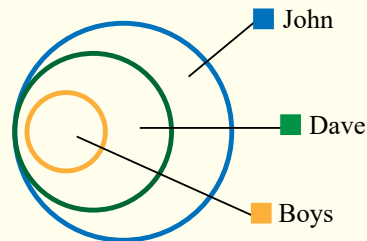
47. Ans: (a)

Sol: Using the shortcut rules: All + All = All

Statement 2: All boys are DaveStatement 1: All Dave are John

Conclusion: All boys are John

48. Ans: (d)

Sol: W % E implies W < E

P % E implies P < E

P @ S implies P > S

Hence, the consolidated relationship is E > P > S and E > W

Conclusion I: S * E implies S > E, which is definitely false.

Conclusion II: W $ S implies W = S, which may or may not be true as the relationship between S and W cannot be established.

Hence, neither conclusion follows.

Hence, option D.

49. Ans: (d)

Sol: In mirror image, left and right are interchanged. Top and bottom are same.

50. Ans: (c)

Sol: In mirror image, left and right are interchanged. Top and bottom are same.

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