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COACHING**

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General Science & General Awareness

- Ans.1(B)** Startup India is a flagship initiative launched by the Government of India on 16th January, 2016 to build a strong eco-system for nurturing innovation and startups in the country which will drive economic growth and generate large scale employment opportunities.
On the ninth anniversary of the Startup India mission, Union Minister Piyush Goyal highlighted its significant contribution to India's economic growth.
Initiatives like the BHASKAR platform connect startups with mentorship, financial tools, and collaboration opportunities nationwide.
India is the third-largest startup ecosystem globally, with 1,59,157 startups as of January 15, 2025, and 17.2 lakh direct jobs created.
The startup ecosystem has received a total funding of ₹13 trillion and achieved 76 IPOs in 2024.
The Startup Mahakumbh event, scheduled for April 2025, will feature participation from 2,500 startups.
The PRABHAAV Factbook, launched by DPIIT, showcases the growth of India's startup ecosystem from 2016 to 2024.
- Ans.2(B)** According to RBI, Rs 2 lakh is the minimum amount to be remitted through Real Time Gross Settlement (RTGS).
- Ans.3(D)** India is projected to maintain a growth rate of 6.7% for FY26 and FY27, as per the World Bank's Global Economic Prospects (GEP) report. India is the fastest-growing major economy, outpacing the global growth projection of 2.7% for FY26.
India's growth is attributed to a thriving services sector and a revitalized manufacturing base, supported by transformative government initiatives.
Key government initiatives include PM GatiShakti National Master Plan, Startup India, and the Production Linked Incentive Scheme.
The International Monetary Fund (IMF) forecasts India's growth rate at 6.5% for 2025 and 2026.
- Ans.4(A)** Lok Sabha Speaker Om Birla has inaugurated the 85th All India Presiding Officers' Conference (AIPOC) in Patna, Bihar, on January 20, 2025.
The conference has spanned two days and has focused on the theme: "75th Anniversary of Constitution: Contribution of Parliament and State Legislative Bodies in Strengthening Constitutional Values."
This has marked the third time the AIPOC has been held in Bihar.
During the conference, Om Birla has released the 8th edition of Practice and Procedure of Parliament, a reference book on parliamentary practices.
He has also inaugurated the Neva Seva Kendra in the Bihar Legislature premises, aimed at improving services for the legislative body.
The 61st Conference of Secretaries of Legislative Bodies in India has been held on January 19, 2025, a day before the AIPOC.
The theme for the Secretaries' Conference has been "Adoption of Modern Technologies in Legislative Bodies for Greater Efficiency, Effectiveness, and Productivity."

Ans.5(B)

Utpal Kumar Singh, Secretary-General of Lok Sabha, has inaugurated the 61st Conference of Secretaries and has addressed the delegates.
Prime Minister Narendra Modi distributed property cards under the SVAMITVA scheme to property owners in over 230 districts.
The scheme was launched in 10 states and 2 Union Territories.
Over 65 lakh families have received property cards under the scheme.
The SVAMITVA scheme has benefited about 1.5 crore people in the last 5 years.
The scheme started after the BJP government came to power in 2014.
The scheme provides legal proof of property ownership for rural citizens.
Around 23 crore Bhu-Aadhaar numbers have been issued under the scheme.
The SVAMITVA scheme's pilot project began on April 24, 2020.
The national rollout of the scheme took place on April 24, 2021.

Ans.6(B)

A Memorandum of Understanding (MoU) was signed between the Government of Uttarakhand and the Icelandic company Varkis Consulting Engineers.
The MoU focuses on the exploration and development of geothermal energy in Uttarakhand.
The signing took place in the virtual presence of Chief Minister Pushkar Singh Dhami and Icelandic Ambassador Dr Benedict Hoskulsson.
The Geological Survey of India and Wadia Institute of Himalayan Geology have identified approximately 40 geothermal sites in Uttarakhand.
Varkis Consulting Engineers, a globally recognized Icelandic company, will leverage its expertise to develop geothermal projects in Uttarakhand efficiently.

Ans.7(A)

Pankaj Mishra's latest book, The World After Gaza, focuses on the ongoing war in the Palestinian Gaza Strip.
The book portrays the conflict as a devastating blow to human rights and morality.
The World After Gaza is published by Juggernaut Books.
The book explores the atrocities and systematic injustices of the war.
Mishra reflects on global moral decay through the context of the Gaza conflict.
In an interview, Mishra shared that the book is a response to the ongoing war in Gaza.
The book highlights the moral and political incapacities of the modern world.

Ans.8(A)

Pluto is a dwarf planet in the Kuiper belt, a ring of bodies beyond Neptune. It was the first Kuiper belt object to be discovered. Mercury is the smallest and innermost planet in the Solar System. Its orbital period around the Sun of 88 days is the shortest of all the planets in the Solar System.
Jupiter is the fifth planet from the Sun and the largest in the Solar System. It is a giant planet with a mass one-thousandth that of the Sun. Saturn is the sixth planet from the Sun and the second-largest in the Solar System, after Jupiter. It is a gas giant with an average radius about nine times that of Earth.

- Ans.9(D)** Raja Ram Mohan Roy was the founder of the Brahma Sabha movement in 1828, which engendered the Brahma Samaj, an influential socio-religious reform movement. His influence was apparent in the fields of politics, public administration and education as well as religion, The 'Maker of Modern India' Raja Ram Mohan Roy was born on May 22, 1772 into a prosperous Brahmin family of Bengal. The man who challenged the traditional Hindu culture developed unorthodox religious ideas at a very young age. He undertook a lot of social reforms to change the society and worked to uplift the status of women in India. Roy fought against Sati system.
- Ans.10(C)** The Taj Mahal is an ivory-white marble mausoleum on the south bank of the Yamuna river in the Indian city of Agra. It was commissioned in 1632 by the Mughal emperor, Shah Jahan, to house the tomb of his favourite wife, Mumtaz Mahal
- Ans.11(B)** Each 1 or 0 in a binary number is called a bit. From there, a group of 4 bits is called a nibble, and 8-bits make a byte. Bytes are a pretty common buzzword when working in binary. Processors are all built to work with a set length of bits, which is usually this length is a multiple of a byte: 8, 16, 32, 64, etc.
- Ans.12(B)** Low production of Insulin
- Ans.13(A)** Fraco martin
- Ans.14(A)** Ratio of nominal to real GDP
- Ans.15(C)** Dehradun
- Ans.16(D)** Srinagar
- Ans.17(C)**
- Ans.18(A)**
- Ans.19(A)** The chief Justice of the high Court
- Ans.20(D)**
- Ans.21(D)**
- Ans.22(A)**
- Ans.23(B)** Robert Edwards
- Ans.24(C)** E. Kurosawa
- Ans.25(A)** Part of the pancreas
- Ans.26(C)**
- Ans.27(C)**
- Ans.28(A)**
- Ans.29(B)** 1976
- Ans.30(C)**
- Ans.31(D)** Shelterbelts
- Ans.32(C)** The Adriatic
- Ans.33(B)** Hyderabad
- Ans.34(B)** The total energy of the molecules of the object
- Ans.35(C)** Capillary action
- Ans.36(A)** Voltmeter –Potential difference\
- Ans.37(A)** pH
- Ans.38(A)**
- Ans.39(B)** Room will be heated
- Ans.40(C)** It can dissociate into equal number of hydrogen and hydroxyl ions
- Ans.41(D)** Ribosome
- Ans.42(D)** Farmer and Moore
- Ans.43(A)**
- Ans.44(C)**
- Ans.45(C)** Canines

Mathematics

- Ans.46(A)** Average = Produced total number of toys / No of years
= $118/6 = 19.67$

- Ans.47(A)** Produced Revenue = selling quantity × value of each quantity
for 2008 = $25 \times 2000 = 50000$
for 2010 = $28 \times 2600 = 72800$
difference = 22800

- Ans.48(A)** Increased in 2007 = $7/17 \times 100 = 41\%$
Increased in 2009 = $5/20 \times 100 = 25\%$
Increased in 2010 = $1/25 \times 100 = 4\%$

- Ans.49(B)**

$$\frac{3}{5} \times \frac{19}{24}$$

$$5 \times 19 > 3 \times 24$$

$$95 > 72$$

$$\frac{19}{24} > \frac{13}{17}$$

$$19 \times 17 > 24 \times 13$$

$$323 > 312$$

Therefore fraction 19/24 is greater than 13/17.

- Ans.50(A)** $\frac{a^3+b^3}{a^2-ab+b^2} = (a+b) \therefore 4.39 + 1.61 = 6$

- Ans.51(B)** LCM of 70/100, 560/100, 28/100

$$LCM = \frac{LCM(70,560,28)}{HCF(100,100,100)} = \frac{560}{100} = 5.6$$

- Ans.52(A)** $(A \cup B) = A + B - (A \cap B)$

$$\text{Passed in any one subject} = 70.5 + 80 - 65.5 = 85$$

$$\text{Failed in both subject} = 100 - 85 = 15$$

- Ans.53(B)**

- Ans.54(A)** Required number = $320/2 = 160$

$$\text{No of parrot} = 50$$

$$\text{Ratio} = 16 : 5$$

- Ans.55(A)** profit = 16.67% $\frac{\text{profit}}{\text{CP}} = \frac{1}{6}$

$$\text{Ratio of sp and cp} = 7/6$$

If SP is 7x and CP is 6x. then,

$$\frac{7x+6}{6x+7} = \frac{108}{100}$$

$$x = 3$$

$$CP = 6x = 18$$

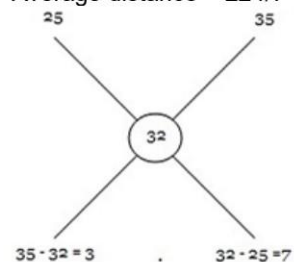
- Ans.56(B)** Required % = $-40 - 16.67 + (16.67 \times 40/100) = 50\%$

- Ans.57(B)**

- Ans.58(B)**

- Ans.59(B)**

$$\text{Average distance} = 224/7 = 32$$



$$\text{Then ratio of distance covered by them} = (3 \times 25) / (7 \times 35) = 15/49$$

- Ans.60(D)**

- Ans.61(A)**

- Ans.62(A)**

$$\text{Amount after 2 years on CI} = 8000 \times 5/4 \times 5/4 = 12500$$

$$CI = 12500 - 8000 = 4500$$

$$SI = 4500/2 = 2250$$

$$2250 = (P \times 10 \times 5) / 100$$

$$P = 2250 \times 2 = 4500$$

Ans.63(A)

$$a^3 - b^3 = (a-b)(a^2 + b^2 + ab)$$

$$= 1647 = 3 \times ((a+b)^2 - ab)$$

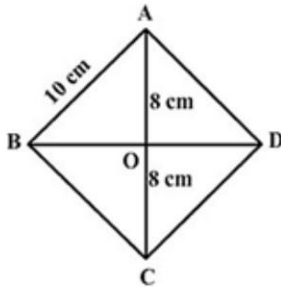
$$= 549 = (a+b)^2 - ab$$

Ans.64(A)

Ans.65(B)

No of cube = $8 \times 10 \times 12/2 \times 2 \times 2 = 120$
 Surface area of cuboid
 $= 2 \times (8 \times 10 + 8 \times 12 + 12 \times 10) = 592$
 Total surface area of 120 cube = $120 \times 6 \times 2 = 2880$
 Increased in surface area = $2880 - 592 = 2288$
 Increased % = $2288/592 \times 100 = 386.5$

Ans.66(A)



$$AB^2 = AO^2 + BO^2$$

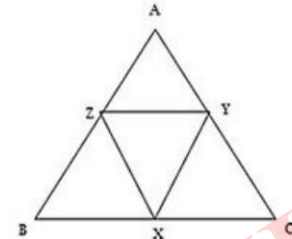
$$10^2 = 8^2 + x^2$$

$$100 - 64 = x^2$$

$$x = 6$$

side = 6cm
 diagonal = $2 \times 6 = 12$
 area of rhombus = $1/2 \times 16 \times 12 = 96$

Ans.67(A)



$$\frac{\text{Area of the parallelogram ZYBX}}{\text{Area of the trapezium AYXB}} = \frac{2}{3}$$

Ans.68(B)

Ans.69(D)

Ans.70(A)

Milk	water	total
4	1	5
7	3	10
13	2	15
milk	water	total
120	+ 30	= 150
105	+ 45	= 150
130	+ 20	= 150
355	+ 95	= 450
Ratio = $355/95 = 71/19$		

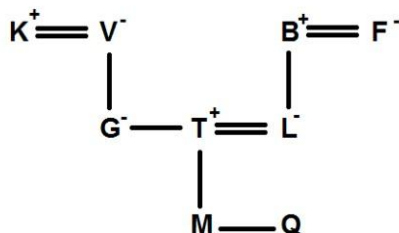
General Intelligence and Reasoning

Ans.71(B)

Ans.72(D)

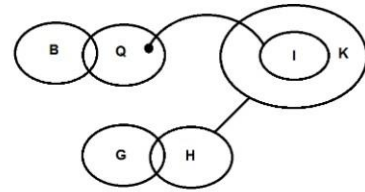
Ans.73(D)

Gender of M is not clear.



Ans.74(C)

Ans.(75-77)

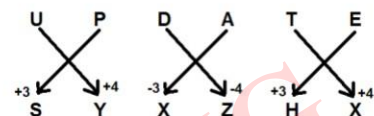
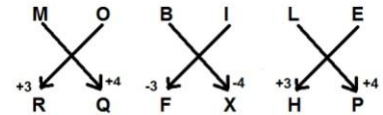


Ans.75(B)

Ans.76(A)

Ans.77(D)

Ans.78(C)



Ans.79(D)

$$24 \times 36 = 864$$

$$21 \times 36 = 756$$

Ans.80(A)

Ans.81(D)

Ans.82(B)

Ans.83(D)

Former is country Latter is national bird.
 Given word does not have "L".

In 1st column
 $(32-21) + (14)2 = 207$

In 3rd column
 $(64-26) + (23)2 = 567$

Ans.84(A)

Hydrogen is constituent of both water & atmosphere water is present in atmosphere.

Ans.85(B)

Ans.86(D)

Ans.87(D)

Except "D" all others are spices.

$$32 \times (3+2) = 160$$

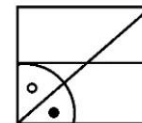
$$43 \times (4+3) = 301$$

Ans.88(B)

K - 11	R - 18
G - 7	S - 19
F - 6	P - 16
<u>24</u>	<u>53</u>

Ans.89(B)

Ans.90(B)



Ans.(91-93)

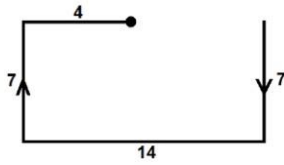
Wprd	Code
Pick/stick	tha/ tcum
You	tva
start	tpan
Are	tta
Gear/the	tga/tcha
Devil	tshe
Deal	tmo

Ans.91(C)

Ans.92(D)

Ans.93(A)

Ans.(94-95)



Ans.94(B)
Ans.95(C)

Ans.(96-97)

Eshwar > Dev > Chand > Abhi > Binod
(80) (65) (60)

Ans.96(C)
Ans.97(D)
Ans.98(B)
Ans.99(A)
Ans.100(A)

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