

WBPSM Miscellaneous Services Exam Unofficial Answer Key with Solutions

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Q10-20 and Q30-39 were not in the available pages and are not included.

Q1. Loktak lake is located in

Answer: B) Manipur

Loktak is the largest freshwater lake in North-East India, famous for its floating 'phumdis'. Keibul Lamjao, the only floating national park in the world, is on it.

Q2. Mix milk-water 4:3 and 2:3 to get 1:1

Answer: A) 7 : 5

Milk fraction in A = $\frac{4}{7}$, in B = $\frac{2}{5}$, required = $\frac{1}{2}$.

By alligation: A : B = $(\frac{1}{2} - \frac{2}{5}) : (\frac{4}{7} - \frac{1}{2}) = (\frac{1}{10}) : (\frac{1}{14}) = 14 : 10 = 7 : 5$.

Q3. $\frac{1}{20} + \frac{1}{30} + \frac{1}{42} + \frac{1}{56} + \frac{1}{72} + \frac{1}{90}$

Answer: C) $\frac{3}{20}$

Each term is $\frac{1}{n(n+1)} = \frac{1}{n} - \frac{1}{(n+1)}$: $\frac{1}{(4 \times 5)} + \frac{1}{(5 \times 6)} + \dots + \frac{1}{(9 \times 10)}$.

Sum = $\frac{1}{4} - \frac{1}{10} = \frac{(5 - 2)}{20} = \frac{3}{20}$.

Q4. Watch prices 16:23, then +10% and +Rs 477, new ratio 11:20

Answer: B) 1,219

Let prices be 16k and 23k. New prices: 17.6k and 23k + 477.

$\frac{17.6k}{23k + 477} = \frac{11}{20} \rightarrow 352k = 253k + 5247 \rightarrow 99k = 5247 \rightarrow k = 53$.

Second watch originally = $23 \times 53 = \text{Rs } 1,219$.

Q5. Non-fossil capacity milestone, July 2026

Answer: C) 300 GW

As on 31 July 2026, India's non-fossil installed capacity reached 300.50 GW (over 54% of the ~552 GW total), per MNRE.

Q6. 2026 Commonwealth Games venue

Answer: B) Glasgow, Scotland

The 23rd Commonwealth Games (2026) were held in Glasgow after Victoria (Australia) withdrew as host.

Q7. Mirrors at 60 degrees, point on bisector

Answer: C) 5

$n = \frac{360}{60} = 6$, which is even. For an even value, number of images = $n - 1 = 5$ (irrespective of the object's position).

Q8. Pass connecting Srinagar with Leh

Answer: C) Zoji-La

Zoji-La (on NH-1 in the Zaskar range) links the Kashmir valley (Srinagar) with Ladakh (Leh).

Q9. Somnath temple was dedicated to

Answer: B) Shiva

Somnath (Gujarat) is the first of the 12 Jyotirlingas of Lord Shiva; Mahmud of Ghazni plundered it in 1025 CE.

Q21. Present Vice-President of India

Answer: C) C. P. Radhakrishnan

C. P. Radhakrishnan was elected the 15th Vice-President in September 2025 after Jagdeep Dhankhar resigned.

Q22. 1 hr 45 min as a percentage of a day

Answer: B) 7.292%

1 hr 45 min = 105 min; 1 day = 1440 min.

$(\frac{105}{1440}) \times 100 = 7.292\%$.

Q23. Tehri Dam is built on

Answer: A) Bhagirathi river

Tehri Dam (Uttarakhand), one of the tallest dams in India, is on the Bhagirathi, near its confluence with the Bhilangana.

Q24. COP 31 (2026) venue

Answer: B) Antalya, Turkiye

Under a compromise between Turkiye and Australia, COP31 is hosted in Antalya, Turkiye, with Australia leading the negotiations.

Q25. Which is a direct tax?

Answer: C) Corporate Tax

Corporate tax is paid directly by companies on their income. GST, VAT and customs duty are indirect taxes passed on to consumers.

Q26. Why the 'Deccan ulcer' ruined Aurangzeb

Answer: D) All of the above

Jadunath Sarkar argued that the prolonged Deccan wars spread across the South, demoralised the army, drained the economy and dragged on endlessly like a civil war. So all statements apply.

Q27. Chief architect of Prarthana Samaj

Answer: B) M. G. Ranade

The Samaj was founded in 1867 by Atmaram Pandurang; Justice Mahadev Govind Ranade was its leading spirit and chief architect.

Q28. BIOS is loaded from

Answer: C) ROM

BIOS is firmware stored in non-volatile ROM (EEPROM/flash) on the motherboard, so it runs as soon as the computer is switched on.

Q29. Disease triangle consists of

Answer: B) Host, pathogen and environment

Plant disease occurs only when a susceptible host, a virulent pathogen and a favourable environment are present together.

Q40. Central bank of India

Answer: B) Reserve Bank of India

RBI, established 1 April 1935 under the RBI Act 1934, is India's central bank.

Q41. Example of a merit good

Answer: B) Education

Merit goods (education, healthcare) give benefits to society beyond the individual and tend to be under-consumed, so the state promotes them. Cigarettes are demerit goods.

Q42. CEDAW was adopted by

Answer: B) United Nations

CEDAW was adopted by the UN General Assembly in 1979; it is often called the international bill of rights for women.

Q43. Fighter aircraft bought from France

Answer: D) Rafale

Rafale is made by Dassault Aviation, France. MiG-21/27 are Russian; F-16 is American.

Q44. Smallest halogen atom

Answer: D) F

Atomic size increases down a group. Fluorine is at the top of Group 17, so it is the smallest.

Q45. Number / 56 leaves 29; remainder when divided by 8?

Answer: B) 5

$N = 56k + 29$. Since 56 is divisible by 8, the remainder is $29 / 8 \rightarrow 29 = 3 \times 8 + 5 \rightarrow 5$.

Q46. Rainbow formation

Answer: B) Refraction, dispersion and internal reflection

Sunlight is refracted and dispersed on entering a raindrop, totally internally reflected at the back, and refracted again on leaving.

Q47. Sulphur-containing amino acids

Answer: A) Cysteine, methionine

Only cysteine and methionine contain sulphur (threonine and serine contain -OH groups, no S).

Q48. Purna Swaraj resolution session

Answer: A) Lahore

Passed at the Lahore session (December 1929) under Jawaharlal Nehru; 26 January 1930 was observed as Independence Day.

Q49. Main compound in LPG

Answer: A) Butane

LPG is mainly butane (with propane); ethyl mercaptan is added for smell.

Q50. Akbar introduced the Mansabdari system to

Answer: C) Organise the nobility and the army

Mansabdari ranked officers (zat and sawar) and fixed the troops they maintained, organising both the nobility and the military.

Q51. Longest river of peninsular India

Answer: C) Godavari

Godavari (about 1,465 km) is the longest peninsular river, called the 'Dakshin Ganga'.

Q52. Article for 'Equality before the law'

Answer: A) Article 14

Article 14 guarantees equality before law and equal protection of laws.

Q53. Asiatic Society of Bengal (1784) founder

Answer: A) William Jones

Founded by Sir William Jones in Calcutta on 15 January 1784.

Q54. Highest oxidizing power

Answer: C) F₂

Fluorine is the most electronegative element with the highest standard reduction potential (+2.87 V), so F₂ is the strongest oxidiser.

Q55. 2/3 of three-fourth of a number

Answer: A) 1/2 of the number

$(\frac{2}{3}) \times (\frac{3}{4}) = \frac{6}{12} = \frac{1}{2}$.

Q56. Not a basis of animal classification

Answer: D) Mode of nutrition

Animals are classified by levels of organisation, symmetry, coelom, segmentation, etc. Mode of nutrition is not used.

Q57. Full member of BRICS

Answer: D) China

BRICS: Brazil, Russia, India, China, South Africa (plus newer members). Italy, Sweden and Iraq are not members.

Q58. Biggest English settlement in Bengal before Calcutta

Answer: C) Hugli

The English factory at Hugli (from 1651) was their main settlement in Bengal before Job Charnock founded Calcutta (1690). Note: some sources mention Qasim Bazar.

Q59. Molecule with a triple bond

Answer: B) N₂

N₂ has N≡N (triple bond). H₂ has a single bond, O₂ a double bond, Br₂ a single bond.

Q60. A, B, C together

Answer: D) 4 days

A: 1/2 in 5 days → whole in 10 days. B: 3/5 in 9 days → 15 days. C: 2/3 in 8 days → 12 days.

One day work = $\frac{1}{10} + \frac{1}{15} + \frac{1}{12} = \frac{(6 + 4 + 5)}{60} = \frac{15}{60} = \frac{1}{4} \rightarrow \text{4 days}$.

Q61. Not a stem modification

Answer: C) Tuber of sweet potato

Sweet potato is a modified (tuberous) root. Onion bulb, arbi corm and potato tuber are modified stems.

Q62. Cost-push inflation is caused by

Answer: C) Increase in wages or raw materials

Rising production costs (wages, raw materials) push prices up. Increase in aggregate demand causes demand-pull inflation.

Q63. Borrowed at 5% SI, lent 50% at 10% CI, profit Rs 3,205 in 4 yrs

Answer: B) Rs 1,00,000

Let sum = P. SI paid = $P \times 5 \times 4/100 = 0.2P$.

CI earned on $0.5P = 0.5P[(1.1)^4 - 1] = 0.5P \times 0.4641 = 0.23205P$.

Profit = $0.23205P - 0.2P = 0.03205P = 3205 \rightarrow P = \text{Rs } 1,00,000$.

Q64. India is a member of

Answer: C) Quad

Quad = India, USA, Japan, Australia. India is not in NATO, Mercosur or OPEC.

Q65. Rs 840 sold at 10% gain, then at 5% loss

Answer: A) Rs 877.80

$840 \times 1.10 = 924$; $924 \times 0.95 = \text{Rs } 877.80$.

Q66. 'Portuguese man of war'

Answer: B) Physalia

Physalia physalis is a colonial cnidarian (siphonophore) of phylum Coelenterata.

Q67. SEBI stands for

Answer: B) Securities and Exchange Board of India

SEBI (est. 1988, statutory in 1992) regulates India's securities market.

Q68. Year of Vivekananda's Chicago speech

Answer: B) 1893

Delivered on 11 September 1893 at the Parliament of the World's Religions, Chicago.

Q69. Displacement-time graph parallel to time axis

Answer: B) The particle is at rest

Displacement does not change with time, so slope (velocity) = 0; the particle is at rest.

Q70. 504 students, 13:11, 3 more girls

Answer: A) 7 : 6

Boys = $504 \times 13/24 = 273$; Girls = $504 \times 11/24 = 231$.

New girls = 234. Ratio = $273 : 234 = (\text{divide by } 39) 7 : 6$.

Q71. Indigo revolt was directed against

Answer: B) The Foreign Planters

The Indigo Revolt (1859-60) in Bengal was against European (British) indigo planters who forced peasants to grow indigo.

Q72. Main source of income of Govt of India

Answer: C) Taxes

Tax revenue (income tax, corporate tax, GST, etc.) is the largest source of government receipts.

Q73. 2, 6, 12, 20, 30, ?

Answer: B) 42

Differences: 4, 6, 8, 10, 12 $\rightarrow 30 + 12 = 42$. (Also $n(n+1)$: $1 \times 2, 2 \times 3, \dots, 6 \times 7 = 42$.)

Q74. 'Grand Old Man of India'

Answer: A) Dadabhai Naoroji

Dadabhai Naoroji, author of the 'Drain Theory', is called the Grand Old Man of India.

Q75. Fundamental right not suspended in emergency

Answer: C) Right to life and personal liberty

Under Article 359 (after the 44th Amendment, 1978), Articles 20 and 21 cannot be suspended even during a national emergency.

Q76. Cost Rs 1,500, marked 20% above, profit 8%; discount?

Answer: D) 10%

MP = $1500 \times 1.2 = 1800$; SP = $1500 \times 1.08 = 1620$.

Discount = 180; rate = $180/1800 \times 100 = 10\%$.

Q77. If $a+b+c=0$, find $a^2/bc + b^2/ca + c^2/ab$

Answer: D) 3

Expression = $(a^3 + b^3 + c^3)/abc$. When $a+b+c = 0$, $a^3 + b^3 + c^3 = 3abc$.

So value = $3abc/abc = 3$.

Q78. Association of interacting species in an area

Answer: B) Community

A biotic community is a group of populations of different species living and interacting in a defined area.

Q79. Sum of even numbers between 21 and 51

Answer: B) 540

Even numbers 22, 24, ..., 50: $n = (50 - 22)/2 + 1 = 15$.

Sum = $15/2 \times (22 + 50) = 15 \times 36 = 540$.

Q80. Passes paper, stopped by few mm aluminium

Answer: B) Beta rays

Alpha is stopped by paper; beta passes through paper but is stopped by a few mm of aluminium; gamma needs thick lead.

Q81. Velocity of P waves

Answer: A) 5 to 8 km/second

Primary (P) waves are the fastest seismic waves, travelling about 5-8 km/s in the crust (S waves about 3-5 km/s).

Q82. WHO Director-General in 2026

Answer: A) Tedros Adhanom Ghebreyesus

Dr Tedros (Ethiopia) has been DG since 2017; his second term runs to 2027.

Q83. Buys 3 for Re 1, sells 4 for Re 1

Answer: D) Loss 25%

CP of 1 banana = $1/3$, SP = $1/4$.

Loss = $1/3 - 1/4 = 1/12$. Loss% = $(1/12)/(1/3) \times 100 = 25\%$.

Q84. Autobiography of Nelson Mandela

Answer: D) Long Walk to Freedom

'Long Walk to Freedom' was published in 1994.

Q85. National Science Day 2026 theme

Answer: B) Women in Science: Catalyzing Viksit Bharat

Theme announced by DST for 28 February 2026; the day marks C. V. Raman's discovery of the Raman Effect (1928).

Q86. First Law Minister of independent India

Answer: B) Dr. B. R. Ambedkar

Dr Ambedkar was the first Law Minister (1947-51) and Chairman of the Drafting Committee.

Q87. Aiming for javelin Asian Games hat-trick

Answer: C) Neeraj Chopra

Neeraj won javelin gold at the 2018 and 2022 (Hangzhou) Asian Games, and aims for a third in 2026.

Q88. Permanent members of UN Security Council

Answer: D) 5

USA, UK, France, Russia and China (P5) have veto power.

Q89. Equal sums at 7.5% SI for 4 and 5 years, difference Rs 150

Answer: C) Rs 2,000

Difference is one year's interest: $P \times 7.5 \times 1/100 = 150 \rightarrow P = 150 \times 100/7.5 = \text{Rs } 2,000$.

Q90. Disguised unemployment

Answer: B) People employed but marginal productivity zero

More people work than needed; removing some does not reduce output (common in Indian agriculture).

Q91. Feature of economic globalization

Answer: A) Foreign Direct Investment

Globalisation means free flow of capital, goods and technology across borders, of which FDI is a key feature.

Q92. Increase in CRR leads to

Answer: B) A decrease in the money supply

Higher CRR means banks must keep more with RBI, so less is available to lend and money supply contracts.

Q93. Liquid that does not wet glass - contact angle

Answer: C) Obtuse angle

For non-wetting liquids (e.g. mercury on glass), contact angle is greater than 90 degrees (obtuse).

Q94. 1200 m bridge, walking towards each other at 5 and 10 m/min

Answer: B) 80 minutes

Relative speed = $5 + 10 = 15$ m/min. Time = $1200/15 = 80$ minutes.

Q95. State where TVK formed coalition government in 2026

Answer: D) Tamil Nadu

TVK chief Vijay was sworn in as Tamil Nadu Chief Minister on 10 May 2026, heading a coalition government.

Q96. 'Red Data Book' gives account of

Answer: D) Endangered plants, animals and fungi

Maintained by IUCN, it lists threatened species of plants, animals and fungi.

Q97. 750 m upstream in 675 s, back in 7.5 min

Answer: C) 5 km/hr

Upstream speed = $750/675 = 10/9$ m/s = $(10/9) \times (18/5) = 4$ km/h.

Downstream: 7.5 min = 450 s $\rightarrow 750/450 = 5/3$ m/s = 6 km/h.

Speed in still water = $(6 + 4)/2 = 5$ km/h.

Q98. Astronauts cannot talk directly on the Moon because

Answer: B) There is no atmosphere

Sound needs a material medium. The Moon has no atmosphere, so sound cannot travel; astronauts use radio.

Q99. Product 1280, HCF 8, LCM?

Answer: A) 160

HCF $\times$ LCM = product $\rightarrow$ LCM = $1280/8 = 160$.

Q100. Odd one out: Square, Triangle, Circle, Cube

Answer: D) Cube

Square, triangle and circle are 2-D plane figures; cube is a 3-D solid. (Some keys give Circle, as it has no sides.)