





Campus K D Campus Pvt. Ltd

1997, GROUND FLOOR OPPOSITE MUKHERJEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI – 09

- 34. (1) Remote sensing is the acquisition of information about an object or phenomenon without making physical contact with the object and thus in contrast to on site observation. Remote sensing is used in numerous fields, including geography and most Earth Science disciplines.
- 35. (1) The Antikythera mechanism is an ancient analogue computer and orrery used to predict astronomical positions and eclipses for calendrical and astrological purposes, as well as the Olympiads, the cycles of the ancient Olympic Games.
- 36. (2) Alauddin Khilji was a militarist and imperialist to the core. He was very ambitious. Alauddin, whose original name was Ali Gurshap, assumed the title Sikandar-i-Sani (Alexander the Second) and proclaimed Delhi as Dar-ul-Khilafa (Seat of the Caliphate).
- 37. (3) A 42-day Mahamandal festival commenced at the Ram Mandir in Ayodhya following the Pran Pratishtha of Ram Lalla. Starting on January 24, the festival, overseen by Ram Mandir trustee Jagadguru Vishvesh Prapann Tirtha, includes daily Kalash puja and worship with forty-eight urns in the sanctum sanctorum.
- 39. (2) Each kidney is made up of about a million filtering units called nephrons. Each nephron filters a small amount of blood. The nephron includes a filter, called the glomerulus and a tubule. The nephrons work through a two-step process.
- 40. (4) The Union Cabinet approved a policy for long-term leasing of railway land for the PM Gati Shakti programme.
- 42. (2) The International Development Association (IDA) is an international financial institution which offers concessional loans and grants to the world's poorest developing countries. The IDA is a member of the World Bank Group and is headquartered in Washington, D.C., United States.
- 43. (3) Himalaya Diwas is celebrated every year on 9 September in the state of Uttarakhand, with an aim to conserve Himalayan ecosystem and region. It was officially declared as Himalaya Day in 2015 by the state's then Chief Minister.
- 44. (1) A new plant species, 'Andrographis theniensis,' was discovered in Tamil Nadu's Theni district in the Western Ghats. Named after its location, the plant closely resembles Andrographis megamalayana, featuring glabrous leaves and stems, a nine-veined lower lip, pale yellowish sparse hair on the middle lobe, and yellow anther. Andrographis, a tropical Asian genus, is known for treating various ailments in traditional medicine systems.
- 47. (4) Mumps is a relatively mild short term viral infection of the salivary glands that usually occurs during childhood. The salivary glands are also called the parotid glands; therefore, mumps is some times referred to as an inflammation of the parotid glands (epidemic parotitis).
- 49. (4) Taxes on tooth paste come under GST which is administered by State government. Sales tax is paid to sales tax authority in the state from where the goods are moved.
- 50. (1) Wajid Ali Shah was the tenth and last Nawab of Awadh, holding the position for 9 years, from February 13, 1847 to February 11, 1856. He was the Nawab when Awadh merged into British Empire.
- 51. (2) $\operatorname{Profit} \% = \frac{\operatorname{Real W eight} \operatorname{F alse W eight}}{\operatorname{False W eight}} \times 100$

$$\left(\frac{1000 - 800}{800} \times 100\right)\% = 25\%$$

52. (1) Ratio of efficiency of Rahim, Ram and Guru = 2 : 5 : 3 Total work = 30 × (2 + 5 + 3) units = 300 units

Time taken by Guru alone to complete the task = $\frac{300}{3}$ = 100 hours

Time taken by Guru to complete 60% of task = 60% of 100 = 60 hours

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EXAMPLE 1997. GROUND FLOR OPPOSITE MUKHERIZE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI - 09
(x + 4x + 9x = 646
19x = 646
x -
$$\frac{646}{19} - 34$$

x - 34
.: Total sum = 200x = 200 × 34 = ₹6500
66. (1) Ssin θ - 4cos θ = 0
Ssin θ = 4cos θ
.: $\frac{5 \sin \theta - 2 \cos \theta}{3 \sin \theta + 3 \cos \theta} = \frac{2}{7}$
67. (3) Let the side of cube be x cm.
Volume of cube = $(\text{side})^2 = x^2 \text{ cm}^3$
Let the cube is cut along its height So, the sides of cuboid is x cm, x cm and $\frac{x}{3}$ cm.
Total surface are of cuboid = 2(lb + bh + lh) = $2(x \times x + x \times \frac{x}{3} + x \times \frac{x}{3}) \text{ cm}^2$
 $= 2(x^4 + \frac{2x^2}{3}) \text{ cm}^2 = \frac{10x^4}{3} \text{ cm}^2$
Total surface are of cuboid = $2(lb + bh + lh) = 2(x \times x + x \times \frac{x}{3} + x \times \frac{x}{3}) \text{ cm}^2$
 $= 2(x^4 + \frac{2x^2}{3}) \text{ cm}^2 = \frac{10x^4}{3} \text{ cm}^2$
Total surface are of cube $6 \times (\text{side})^2 = (6 \times x^2) \text{ cm}^2$
.: Required ratio = $6x^4 \cdot \left[2x \cdot \frac{10x^4}{3}\right] = 18x^4 : 20x^2 = 9 : 10$
(88. (2) $\frac{2}{3} + \frac{3}{10} 6t^2 + \frac{4}{9} \times 1\frac{1}{2}, \frac{4}{3} + \frac{3}{1}, \frac{4}{3} + \frac{1}{2}$
 $= \frac{2}{3} \times \frac{10}{12} - \frac{4}{5} \times 10 \times \frac{15}{8} - \frac{3}{4} + \frac{3}{4} + \frac{1}{2}$
 $= \frac{2}{3} \times \frac{10}{12} - \frac{4}{5} \times \frac{10}{8} - \frac{3}{8} + \frac{3}{4} + \frac{1}{2}$
 $= 5 - \frac{5}{3} - \frac{3}{4} + \frac{3}{2}$
 $= \frac{60 - 20 - 9 + 18}{12} - \frac{4}{12} = \frac{4}{12}$
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MEANINGS IN ALPHABETICAL ORDER

Altruist	a person unselfishly concerned for or devoted	परोपकारी
	to the welfare of others	
Autonomy	the right or condition of self-government	स्वयं शासन
Commemorate	recall and show respect for someone or something	पुण्यस्मरण करना
Drastic	likely to have a strong or far-reaching effect	कठोर
Fatigue	extreme tiredness	थकान
Harmonize	add notes to a melody to produce harmony	स्वर योजन करना
Hinder	create difficulties for someone or something	अड़चन करना
	resulting in delay or obstruction	
Indifference	lack of interest, concern, or sympathy	उदासीनता
Intervention	the action of preventing or altering a result or	हस्तक्षेप
	course of events	
Noticeable	easily seen or noticed	उल्लेखनीय
Optimum	most conducive to a favorable outcome	इष्टतम
Perspective	a point of view	दृष्टिकोण
Priest	one who performs certain rites and administer	पादरी
	certain sacraments in church	
Selflessness	concern more with the needs and wishes of	निस्वार्थता
	others than with one's own	
Sovereignty	supreme power or authority	संप्रभुता
Vocalist	a singer	गायक

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SSC MOCK TEST - 424 (ANSWER KEY)

2. (3) $21.$ (4) $32.$ (1) $71.$ (2) 3. (4) $28.$ (1) $53.$ (3) $78.$ (1) 4. (1) $29.$ (3) $54.$ (2) $79.$ (3) 5. (4) $30.$ (3) $55.$ (4) $80.$ (2) 6. (3) $31.$ (2) $56.$ (2) $81.$ (4) 7. (4) $32.$ (4) $57.$ (1) $82.$ (2) 8. (3) $33.$ (2) $58.$ (2) $83.$ (1) 9. (1) $34.$ (1) $59.$ (4) $84.$ (3) 10. (1) $35.$ (1) $60.$ (3) $85.$ (1) 11. (1) $36.$ (2) $61.$ (4) $86.$ (1) 12. (3) $37.$ (3) $62.$ (3) $87.$ (4) 13. (2) $38.$ (2) $63.$ (1) $88.$ (3) 14. (2) $39.$ (2) $64.$ (3) $89.$ (4) 15. (2) $40.$ (4) $65.$ (1) $90.$ (4) 16. (2) $41.$ (1) $69.$ (4) $91.$ (4) 14. (2) $43.$ (3) $68.$ (2) $93.$ (3) 14. (2) $43.$ (3) $69.$ (4) $94.$ (3) 20. $($	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
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- 76. (1) Instead of 'What is needed is', it should be 'what is needed are', as the subject of the sentence is 'proper guidelines' which is plural and it will take 'are' instead of 'is'.
- 77. (2) Change 'accepts', into 'accept', it comes for 'those people', and hence should be followed by a plural verb.
- 78. (1) 'To steal somebody's thunder' means 'to do what someone else was going to do before they do it, especially if this takes success or praise away from them.'

90. (4) The correct spelling of 'Noticeble' is 'Noticeable', 'Perspactive' is 'Perspective' and 'Indifference' is 'Indifference'.

91. (4) The correct spelling is 'Accelaretor' is 'Accelerator'.