

HSSC Haryana Police Maha Mock | 17th October 2019 (Solutions)

S1. Ans.(d)

Sol. Lord Wellesley remained Governor General of Fort Williams from 1798 to 1805. He described himself as Bengal Tiger.

S2. Ans.(a)

Sol. In 1893, the Arya Samaj members of Punjab were divided on the question of vegetarianism. The group that refrained from eating meat were called the "Mahatma" group and the other group, the "Cultured Party".

S3. Ans.(a)

Sol. In July 1942, the Congress Working Committee met at Wardha. Here a long resolution was passed that demanded that the "British Rule in India must end immediately". The Wardha Resolution is also known as "Quit India Resolution". This resolution was ratified in the All India Congress Committee at Bombay on August 7, 1942. Here a nonviolent mass struggle under the leadership of Gandhi was sanctioned in the "August Kranti Maidan".

S4. Ans.(d)

Sol. Mahatma Gandhi gave the title 'Nightingale of India' to Sarojini Naidu.

S5. Ans.(c)

Sol. Sri Guru Nanak Dev was born in 1469 in Talwandi, a village in the Sheikhpura district, 65 kms. west of Lahore. His father was a village official in the local revenue administration. As a boy, Sri Guru Nanak learnt, besides the regional languages, Persian and Arabic.

S6. Ans.(b)

Sol. Hazrat Nizamuddin used these words "Hunuz Dilli dur ast" for the Tughlaq ruler Ghiyassuddin Tughlaq.

S7. Ans.(c)

Sol. Harshavardhan's Vallabhi conquest is found in Navsari Copper Plate inscription.


S8. Ans.(c)

Sol. In solar system 3 planets are smaller than Earth. They are Mercury, Mars and Venus.

S9. Ans.(b)

Sol. China has the maximum number of neighbours touching its border. The 14 countries touching its border are: India, Pakistan, Afghanistan, Tajikistan, Kyrgyzstan, Kazakhstan, Mongolia, Russia, North Korea, Vietnam, Laos, Myanmar, Bhutan and Nepal.

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S10. Ans.(b)

Sol. A line drawn on a weather map connecting points that receive equal amounts of precipitation during a given period of time is called Isohyet.

S11. Ans.(c)

Sol. Almost all weather occurs in the lowest layer of the atmosphere, called the Troposphere. The exception being large storms like hurricanes and large Thunderstorms. These storms have clouds with great vertical development and the tops of these storms go into the Stratosphere.

S12. Ans.(a)

Sol. Titan is the largest moon of Saturn. It is the only moon known to have a dense atmosphere, and the only object in space other than Earth where clear evidence of stable bodies of surface liquid has been found.

S13. Ans.(a)

Sol. The kharif cropping season is from July –October during beginning of the south-west monsoon.

S14. Ans.(d)

Sol. Part XV of the constitution of India consists of Articles on Elections.

S15. Ans.(a)

Sol. As per article 84 of the constitution, a person is qualified to be a member of parliament provided he: is a citizen of India, has completed 30 years of age in case of Rajya Sabha and 25 years in case of Lok Sabha and possesses such other qualifications as may be prescribed in that behalf by or under any law made by Parliament.

S16. Ans.(d)

Sol. Along with 'Right to Life and personal liberty' in Article 21 of Indian constitution, it also includes Right to Health, Right to Food and Right to water.

S17. Ans.(c)

Sol. The Indian Constitution has elaborate provisions regarding the distribution of revenues between Article 268 to 293 in Part XII deal with the financial relations.

S18. Ans.(d)

Sol. Salary and Allowances of the President, Speaker / Deputy speaker of Lok Sabha, Chairman/ Deputy chairman of Rajya Sabha, Salaries and Allowances of Supreme Court judges, Pensions of Supreme Court as well as High Court Judges, Salaries and Allowances of CAG, Lok Pal are withdrawal from Consolidated Fund of India.

S19. Ans.(c)

Sol. Abraham Lincoln was an American politician and lawyer who served as the 16th President of the United States. Lincoln led the United States through its Civil War.

S20. Ans.(c)

Sol. The Third Five-year Plan, stressed agriculture and improvement in the production of wheat, but the brief Sino-Indian War of 1962 exposed weaknesses in the economy. In 1965–1966, India fought a War with Pakistan. The war led to inflation and the priority was shifted to price stabilisation.

S21. Ans.(a)

Sol. Generally unemployment in a developing country takes place because of lack of complementary factors of production.

S22. Ans.(a)

Sol. The Nikkei 225, more commonly called the Nikkei, the Nikkei index, or the Nikkei Stock Average, is a stock market index for the Tokyo Stock Exchange.

S23. Ans.(a)

Sol. A pure monopoly is a market structure where one company is the single source for a product and there are no close substitutes for the product available. Pure monopolies are relatively rare.

S24. Ans.(d)

Sol. Functional finance is an economic theory proposed by Abba P. Lerner, based on effective demand principles and chartalism. It states that government should finance itself to meet explicit goals, such as taming the business cycle, achieving full employment, ensuring growth, and low inflation.

S25. Ans.(b)

Sol. Balance of Payment should always be balanced in the foreign trade of India.

S26. Ans.(a)

Sol. Relative density, or specific gravity, is the ratio of the density (mass of a unit volume) of a substance to the density of a given reference material. Specific gravity usually means relative density with respect to water. The term "relative density" is often preferred in scientific usage.

S27. Ans.(a)

Sol. We Know that

Acceleration (a) = [Final Velocity (v) – Initial Velocity (u)]/Time (t)

$$a = (40-15)/2$$

$$= 12.5 \text{ m/s}^2.$$

S28. Ans.(c)

Sol. Newton's law of universal gravitation states that every point mass in the universe attracts every other point mass with a force that is directly proportional to the product of their masses, and inversely proportional to the square of the distance between them.

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S29. Ans.(b)

Sol. Longitudinal waves in which the particles of the medium vibrate in a direction parallel to the direction of propagation of the waves.

S30. Ans.(a)

Sol. Acid rain is caused by a chemical reaction that begins when compounds like sulfur dioxide and nitrogen oxides are released into the air.

S31. Ans.(a)

Sol. Petrol has maximum calorific value as compare to other options.

S32. Ans.(d)

Sol. Atomic Number =Number of Proton

Number of proton =10

Mass number =Number of proton + Number of Neutron

Number of Neutron=23-10

=13

S33. Ans.(b)

Sol. Lymph is the fluid that circulates throughout the lymphatic system. It is formed when the interstitial fluid (the fluid which lies in the interstices of all body tissues) is collected through lymph capillaries. Some amount of plasma, proteins and blood cells escape through the pores present in the walls of capillaries into the intercellular spaces in the tissue and form lymph.

S34. Ans.(a)

Sol. A cell wall is a structural layer surrounding some types of cells, just outside the cell membrane. Cell walls are present in plant cell but absent in animal cell.

S35. Ans.(d)

Sol. The chemical process of interaction between neurons and between neurons and effector cells occur at the end of the axon, in a structure called synapse.

S36. Ans.(a)

Sol. Fatehabad districts of Haryana have the lowest percentage of area under forest cover with forest cover 18 sq.km.

S37. Ans.(d)

Sol. In Haryana the sugarcane is produced mostly in the area adjacent to western Uttar Pradesh i.e. Yamuna basin. The state accounts for 4.13% of the total area and 2.84% of total production of sugarcane in India. Sugarcane as commercial crops ranks first in production in Haryana.

S38. Ans.(b)

Sol. Kalesar National Park is a protected area located in eastern Haryana, India, 150 km from Chandigarh. It is a popular destination for bird-watching.

S39. Ans.(c)

Sol. Panchkula is famous for Electronics Industry.

S40. Ans.(a)

Sol. The incumbent chief minister is Manohar Lal Khattar, the first office holder from the Bharatiya Janata Party, who was sworn in on 26 October 2014.

S41. Ans.(b)

Sol. Wheat crop covers maximum area in Haryana.

S42. Ans.(c)

Sol. Early in the 17th century, Nawab Fidai Khan, a reputed architect and the cousin of Mughal Emperor Aurangzeb, made the design for the Pinjore Gardens.

S43. Ans.(c)

Sol. Gurdwara Satsang Sahib is one of the historical Gurdwaras situated at Ambala in Haryana. This gurdwara was built in memory of the visit of Guru Tegh Bahadur Sahib and Guru Gobind Singh Sahib.

S44. Ans.(b)

Sol. Haryana as a state came into existence on 1 November 1966 the Punjab Reorganisation Act (1966).

S45. Ans.(b)

Sol. Bhiwani district of Haryana is famous as 'Little Cuba' in India, due to large number of boxers here.

S46. Ans.(b)

Sol. The city of Hisar was founded by a Muslim ruler, Firoz Shah Tughlaq in 1354 A.D. The current name of Hisar was given in 1354 AD, as Hisar-e-Firoza by Firoz Shah Tughlaq, the Sultan of Delhi from 1351 to 1388.

S47. Ans.(c)

Sol. The National Brain Research Centre is a neuroscience research group, situated in Manesar, Gurgaon district. The National Dairy Research Institute, Karnal is India's premier institute for dairy research. YMCA University of Science and Technology (YMCA UST) is a state university located in Faridabad. Lingaya's Vidyapeeth is an institute of higher education located in Faridabad.

S48. Ans.(d)

Sol. Bhim awards are given by Haryana government in recognition of outstanding performance by state players. In 2017-18, Bhim award winners to give Rs. 5 Lakh Cash Prizes.

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S49. Ans.(c)

Sol. Mughal paintings also seeped into Hindu temples, especially in Kaithal, Kalayat and Rohtak. Here too, the subject matter is lifted right out of mythology and carry moral and spiritual messages. In Rohtak paintings have been found which are now in possession of the Manuscripts Department of Kurukshetra University.

S50. Ans.(b)

Sol. For the Gugga dance, devotees of Gugga (a saint) dance around his grave in his honour and sing songs in his praise. The Gugga is exclusively a male dance ritualistic in nature dance performed in procession taken out in memory of saint Gugga.

S51. Ans.(d);

Sol. +2 series

S52. Ans.(d);

Sol.

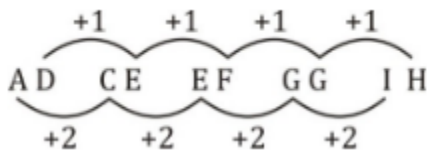
$$12^2 + 12 = 156$$
$$14^2 + 14 = 210$$

S53. Ans.(c);

Sol. +3 series, except JMQ.

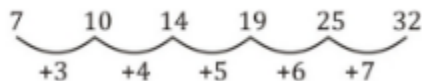
S54. Ans.(b);

Sol.



S55. Ans.(a);

Sol.



S56. Ans.(c);

Sol.

$$19 + 2 \div 2 + 2 - 14$$
$$\Rightarrow 19 \times 2 - 2 \times 2 + 14$$
$$\Rightarrow 38 - 4 + 14 \Rightarrow 48$$



S57. Ans.(d);

Sol.

$$\begin{aligned}14\% 2 * 3 \# 8 &= 31 \\ \Rightarrow 14 \div 2 + 3 \times 8 &= 31 \\ \Rightarrow 7 + 24 &= 31 \\ \Rightarrow 31 &= 31\end{aligned}$$

S58. Ans.(a);

Sol.

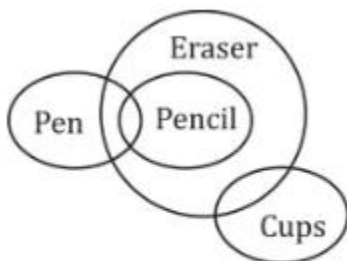
$$\begin{aligned}(11 + 2) \times 6 &= 78 \\ (15 + 4) \times 8 &= 152 \\ (17 + 6) \times 7 &= 161\end{aligned}$$

S59. Ans.(b);

Sol. $11 = 2 + 8 + 1$
 $= 0 + 4 + 5 = 9$

S60. Ans.(b)

Sol.



I. \times II. \times III. \times IV. \checkmark
Only conclusion IV follows.



S61. Ans.(b)

Sol.

$$\begin{aligned}\frac{A}{B} &= \frac{5}{2} \text{ and } \frac{B}{C} = \frac{7}{5} \\ \therefore \frac{A}{B} \times \frac{B}{C} &= \frac{5}{2} \times \frac{7}{5} \\ \frac{A}{C} &= \frac{7}{2}\end{aligned}$$

S62. Ans.(a)

Sol.

$$\begin{aligned}\text{Average} &= \frac{\text{Total sum of numbers}}{\text{Number of numbers}} \\ &= \frac{(4+5+2+8) + (\frac{1}{6} + \frac{1}{8} + \frac{3}{4} + \frac{1}{2})}{4} \\ &= \frac{19 + \frac{7}{4}}{4} = \frac{20 + \frac{8}{4}}{4} \\ &= 5 + \frac{3}{16} = 5 \frac{3}{16}\end{aligned}$$

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S63. Ans.(c)**Sol.**

Numbers between 200 to 400 which are divisible by 9 are.

207, 216, 225,396

Now,

$$t_n = a + (n - 1)d$$

$$396 = 207 + (n - 1)9$$

$$\frac{189}{9} = n - 1 \Rightarrow n = 22$$

$$\therefore \text{sum} = \frac{n}{2}(a + \ell)$$

$$= \frac{22}{2}(207 + 396)$$

$$= 11 \times 603$$

$$= 6633$$

S64. Ans.(d)**Sol.**

$$\text{Length of the train} = 36 \times \frac{5}{18} \times 10$$

$$= 100 \text{ m}$$

$$\therefore \text{time taken to cross a platform} = \frac{100+110}{36 \times \frac{5}{18}}$$

$$= \frac{210}{10}$$

$$= 21 \text{ sec}$$

S65. Ans.(b)**Sol.**

$$\frac{2}{4} \times \frac{7}{10} \times 5$$

$$= \frac{7}{4}$$

S66. Ans.(a)**Sol.**

$$\sqrt[4]{7}, \sqrt[8]{11} \text{ and } \sqrt[12]{1257}$$

$$(7)^{\frac{1}{4}}, (11)^{\frac{1}{8}}, (1257)^{\frac{1}{12}}$$

L.C.M of powers = 12

On multiplying powers by 12

$$(7)^3 (11)^4 \text{ and } (1257)^1$$

$$343 \quad \boxed{14641} \quad 1257$$

↓
Hence $\sqrt[3]{11}$ is the largest value.

S67. Ans.(d)**Sol.** By putting values from options one by one, only 468 divided by 18. The value of N = 8

S68. Ans.(b)**Sol.**

$$P \left[1 + \frac{5}{100} \right]^2 - P \left[1 + \frac{10}{100} \right] = 80 \text{ Rs}$$

$$P \left[\frac{21}{20} \times \frac{21}{20} - \frac{11}{10} \right] = 80$$

$$P \left[\frac{441 - 440}{400} \right] = 80$$

$$P = 32000$$

S69. Ans.(c)**Sol.**

$$C_1 : C_2 = 1 : 9$$

$$\ell_1 : \ell_2 = 3 : 1$$

$$\frac{C_1}{C_2} = \frac{1}{9} = \frac{\pi r_1 \ell_1}{\pi r_2 \ell_2} = \frac{1}{9} \Rightarrow \frac{r_1 \times 3}{r_2 \times 1} = \frac{1}{9}$$

$$r_1 : r_2 = 1 : 27$$

S70. Ans.(d)**Sol.**

$$\frac{22}{7} \times 7^2 \times 40 = \left[56 \times 11 - \frac{22}{7} \times 7^2 \right] \times h$$

$$6160 = (616 - 154) \times h$$

$$h = \frac{6160}{462}$$

$$h = 13.33$$

S71. Ans.(c)**Sol.**

$$\sqrt{7x + 12} + \sqrt{7x - 12} = 3 + \sqrt{33}$$

By putting the value from options one by one, only

$x = 3$ satisfy the given equation.

S72. Ans.(d)**Sol.**

$$x + \frac{1}{x} = 3\sqrt{2}$$

$$x^5 + \frac{1}{x^5} = \left(x^2 + \frac{1}{x^2}\right) \cdot \left(x^3 + \frac{1}{x^3}\right) - \left(x - \frac{1}{x}\right)$$

$$x^2 + \frac{1}{x^2} = \left(x + \frac{1}{x}\right)^2 - 2$$

$$= 18 - 2 = 16$$

$$= \left(x^3 + \frac{1}{x^3}\right) = \left(x + \frac{1}{x}\right)^3 - 3\left(x + \frac{1}{x}\right)$$

$$= (3\sqrt{2})^3 - 3 \times 3\sqrt{2}$$

$$= \left(x^3 + \frac{1}{x^3}\right) = 45\sqrt{2}$$

$$= \left(x^5 + \frac{1}{x^5}\right) = 16 \times 45\sqrt{2} - 3\sqrt{2}$$

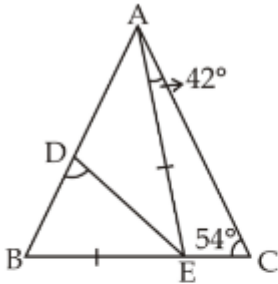
$$= 720\sqrt{2} - 3\sqrt{2}$$

$$= 717\sqrt{2}$$

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S73. Ans.(b)

Sol.



In $\triangle AEC$; $\angle AEC = 180^\circ - (54 + 42) = 84^\circ$

By exterior angle property

$$\angle BAE + \angle ABE = 84^\circ \quad \dots(i)$$

In $\triangle ABE$,

For perpendicular bisector, $AE = BE$

So, $\angle ABE = \angle BAE = x$

By Equation (i)

$$2x = 84^\circ \Rightarrow x = 42^\circ$$

S74. Ans.(c)

Sol.

$$1 + \cot A \cdot \cot\left(\frac{A}{2}\right)$$

Let $A = 60^\circ$

$$\text{Then, } 1 + \sqrt{3} \times \frac{1}{\sqrt{3}} = 2$$

Put $A = 60^\circ$ in options, by option (c)

$$\frac{1}{2} \times \operatorname{cosec}^2\left(\frac{60^\circ}{2}\right) = 2$$



S75. Ans.(c)

Sol.

$$\tan \frac{\theta}{2} \cdot \tan \frac{2\theta}{5} = 1$$

$$\tan \frac{\theta}{2} = \cot \frac{2\theta}{5}$$

$$\tan \frac{\theta}{2} = \tan \left(90 - \frac{2\theta}{5}\right)$$

$$\frac{\theta}{2} = 90 - \frac{2\theta}{5}$$

$$\frac{\theta}{2} + \frac{2\theta}{5} = 90$$

$$\theta = 100^\circ$$

S76. Ans.(a)

Sol. Ctrl+F is the short cut key combination that can be used to search in Windows Explorer.

S77. Ans.(b)

Sol. Mouse, Keyboard, Scanner all are Input Devices.

S78. Ans.(b)

Sol. A folder is a virtual location where programs, files, and other folders can be located.

S79. Ans.(a)

Sol. In computer storage media, WORM (write once, read many) is a data storage technology that allows information to be written to a disc a single time and prevents the drive from erasing the data. The discs are intentionally not rewritable, because they are especially intended to store data that the user does not want to erase accidentally.

S80. Ans.(a)

Sol. Slide sorter view in PowerPoint or OpenOffice Impress is a window that displays thumbnail versions of all your slides, arranged in horizontal rows. This view is useful to make global changes to several slides at one time. Rearranging or deleting slides is easy to do in Slide Sorter view.

S81. Ans.(a)

Sol. Pressing Windows logo key + E will open My Computer.

S82. Ans.(a)

Sol. CPU doesn't understand the C++ language (or any high level programming language). All the High level language statements must be translated into machine code before they can be executed.

S83. Ans.(a)

Sol. Optical Mark Recognition What is the technology used to read pencil or pen marks on a multiple choice answer sheet.

S84. Ans.(d)

Sol. Video Card is an expansion card which generates a feed of output images to a display

S85. Ans.(a)

Sol. Output Devices lets users to view or print data, for example: Monitor (screen display), Printer.

S86. Ans.(c)

S87. Ans.(d)

S88. Ans.(c)

S89. Ans.(a)

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S90. Ans.(a)

Sol. tyranny -cruel and oppressive government or rule. **misrule** – the unfair or inefficient conduct of the affairs of a country or state.

S91. Ans.(d)

Sol. nostalgia- a sentimental longing or wistful affection for a period in the past.

S92. Ans.(b)

S93. Ans.(d)

S94. Ans.(b)

Sol. “पीपर पात सरिस मन डोला” प्रस्तुत पंक्तियों में उपमा अलंकार है। उपमा अलंकार = जिस जगह दो वस्तुओं में अन्तर रहते हुए भी आकृति एवं गुण की समानता दिखाई जाए उसे उपमा अलंकार कहा जाता है। उदाहरण- सागर-सा गंभीर हृदय हो, गिरी-सा ऊँचा हो जिसका मन।

S95. Ans.(d)

Sol. ‘वारि’, नदी का पर्यायवाची शब्द नहीं है। ‘वारि’, पानी का पर्यायवाची शब्द है। नदी के पर्यायवाची शब्द हैं- सरिता, तटिनी, वाहिनी, तरंगिणी, निर्झरिणी, शैलजा, जलमाला, नद, शैवालिनी, प्रवाहिनी।

S96. Ans.(d)

Sol. शब्द की शुद्ध वर्तनी है- कवयित्री।

S97. Ans.(b)

Sol. यहाँ ‘तुम्हीं ने ही मेरी शिकायत की है’ के स्थान पर ‘तुमने ही मेरी शिकायत की है’ या तुम्हीं ने मेरी शिकायत की है’ का प्रयोग उचित है।

S98. Ans.(a)

Sol. ‘वनवास’ शब्द में तत्पुरुष समास है। तत्पुरुष समास = तत्पुरुष वह समास है जिसमें बाद का अथवा उत्तर पद प्रधान होता है तथा दोनों पदों के बीच का कारक-चिह्न लुप्त हो जाता है। जैसे - राजा का कुमार – राजकुमार, रचना को करने वाला – रचनाकार, गंगाजल - गंगा का जल, नीलकमल - नीला कमल।

S99. Ans.(b)

Sol. ‘ध्यानपूर्वक’ एवं ‘बिलकुल’ संज्ञा से बने हुए विशेषण नहीं हैं।

S100. Ans.(c)

Sol. ‘हाथ’ एक तद्भव शब्द है। अन्य सभी तत्सम शब्द हैं।

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