Multi Tasking Non Technical Staff and Havaldar CBIC and CBN Examination 2024

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| ĺ | Exam Date | 22/10/2024 |
| - 1 | Exam Time | 9:00 AM - 11:00 AM |
| | Subject | MTS Non Tech Havaldar CBIC and CBN Examination 2024 |

Section: Numerical and Mathematical Ability

Q.1 During the evening patrolling, a policeman noticed a thief snatching a lady's mobile phone at a distance of 200 m. The thief starts running at a speed of 15 km/hr. If the policeman is chasing him at a speed of 16 km/hr, then the time taken to catch the thief is:

Ans X 1. 18 minutes

2. 12 minutes

X 3. 24 minutes

X 4. 30 minutes

Q.2 A television costs₹20,500 for a trader. He fixes its marked price as₹24,000 and gives a discount of 15%.He further gives a discount of 5%for cash payment. Find his percentage of profit or loss.

Ans

 \times 1. Gain $5\frac{9}{4}$ %

 \times 2. Loss $5\frac{1}{4}\%$

 \times 3. Gain $5\frac{19}{14}$ %

Q.3 The average of 42 numbers is 25 and that of other 28 numbers is 40. What is the average of all the numbers?

Ans 🗳 1. 31

X 2.70

X 3.69

X 4.30

Q.4 What sum (in ₹) will earn a simple interest of ₹240 in 4 years at 8% per year rate of interest?

Ans X 1. 1000

× 2.375

X 3. 1500

4. 750

Q.5 When 80% of a number is added to 80, the result is the same number. Find the number.

Ans X 1. 420

× 2.380

X 3. 320

4 4. 400

Q.6 A cylindrical tube, which is open at both ends, is crafted from a metal. The internal diameter of the tube is 12 cm, and its length is 35 cm. The metal throughout has a thickness of 2 cm. Determine the total surface area (in cm²) of the metal tube.

(Take $\pi = \frac{22}{1}$)

Ans

X 1. 3696

2. 3256

X 3. 3854

X 4. 3145

Q.7 The perimeter of a rhombus is 160 cm and one of its diagonals has a length 50 cm. Find the area (in cm²) of the rhombus.

Ans

× 1. 280√39

×2. 300√39

√ 3. 250√39

× 4. 175√39

Q.8 The average of runs scored by a player in 22 innings is 40 runs. How many runs should he score in the 23rd innings so that his average is increased by 6 runs?

Ans

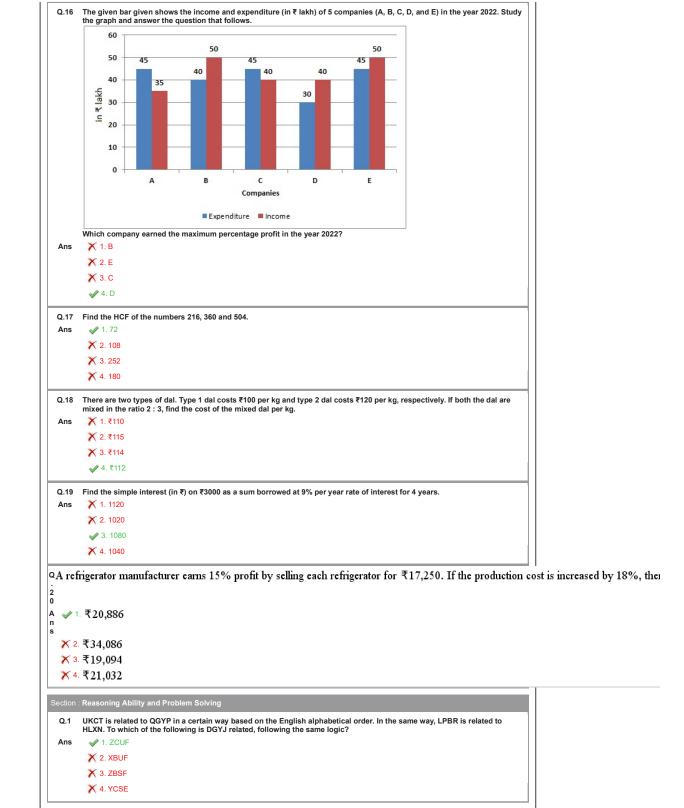
X 1. 148 runs

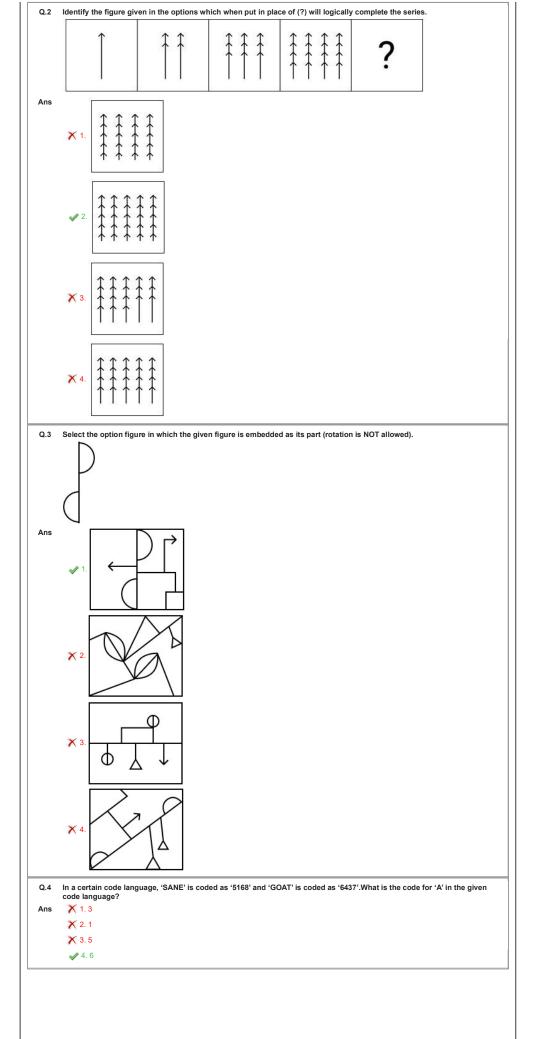
√ 2. 178 runs

X 3. 188 runs

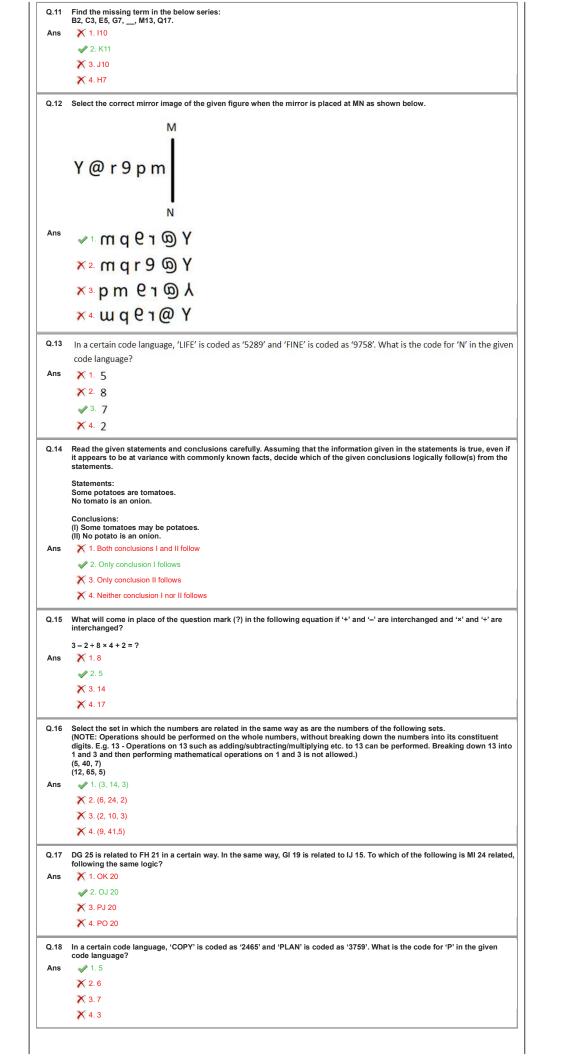
X 4. 158 runs

Q.9 In a box, Refrigerator covers and Washing Machine covers are in the ratio of 7 : 11. If the Washing Machine covers are 660, how many Refrigerator covers are there? X 1.430 Ans X 2.410 **3**. 420 **X** 4.400 Q.10 A mixture of 85 litres of alcohol and water contains 20% of water. How much water (in litres) must be added to the above mixture to make the water 25% of the resulting mixture? Ans × 4. 4 $\frac{1}{3}$ Q.11 P, Q and R start running around a circular track and complete one round in 18, 22 and 30 seconds, respectively. In how much time will they meet again at the starting point? Ans ✓ 1. 16 min 30 sec X 2. 16 min 50 sec X 3. 11 min 30 sec X 4. 11 min 50 sec Q.12 Aditya bought a mobile for ₹21,500 and sold it for ₹18,500. Find the loss percentage (up to two decimal places) in the X 1. 10.69% Ans X 2. 12.38% **3**. 13.95% X 4. 11.25% Q.13 The given table shows the number of employees in four organisations during three years. 2021 2022 2023 Company 2285 A 1560 1698 В 1965 1281 1172 1385 2190 C 1563 D 1204 2146 2035 What is the average number of employees in organisations B, C and D in 2023? X 1. 1678 Ans X 2. 1898 X 3. 1520 **4**. 1799 QThe total surface area of a right circular cone is 704 cm². If the radius of the cone is 7 cm, then the length of the slant height is: $\frac{1}{4} (use \ \pi = \frac{22}{7})$ A X 1. 17.5 cm n s X 2. 19 cm X 3. 31.5 cm √ 4. 25 cm A borrows ₹7,500 for 4 years at 8% p.a. simple interest. B borrows the same amount at simple interest of 9% for the first year, 10% for the second year and 6% for the next two years. What is simple interest paid by A and B in total (in ₹)? X 1.4,275 × 2.4,175 **3**. 4,725 X 4. 4,545





Select the set in which the numbers are related in the same way as are the numbers of the following sets. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.) (8, 24, 12) (16, 20, 5) Ans X 1. (21, 88, 16) X 2. (17, 75, 18) **X** 3. (13, 24, 8) **4**. (19, 57, 12) What should come in place of the question mark (?) in the given series? 5 ,15, 45, 135 ,405 ,? **1.** 1215 Ans X 2. 1255 X 3. 1315 X 4. 1125 I, J, K, L, M, N and O are sitting around a circular table facing the centre (but not necessarily in the same order). J sits fourth to the right of I. K sits to the immediate right of J. L sits to the immediate right of I. N sits fourth to the left of M. M is not an immediate neighbour of K. How many people sit between O and N when counted from the right of O? X 2.4 X 3.5 4.3 What will come in place of the question mark (?) in the following equation if '+' and 'x' are interchanged and '-' and '+' are interchanged? 14 ÷ 12 - 2 + 2 × 16 = ? Ans **1.** 18 X 2.42 X 3.24 X 4. 20 Q.9 Identify the figure given in the options which when put in place of? will logically complete the series. Ans This question has two statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions logically follow(s) from the given statements.
Statements: All jugs are taps. Some taps are hats. Conclusions: (I) Some taps are jugs. (II) All hats are jugs. ✓ 1. Only conclusion (I) follows Ans X 2. Only conclusion (II) follows X 3. Neither conclusion (I) nor (II) follows X 4. Both conclusions (I) and (II) follow



| | X 2.4 |
|------------|---|
| | |
| | ₹ 3.5 |
| | ★ 4.9 |
| Q.20 | Seven people A, B, C, D, E, F and G are sitting around a circular table, facing the centre (but not necessarily in the same order). Exactly three people are sitting between A and B when counted from the right of A. Exactly two people are sitting |
| | between D and G when counted from the left of G. B is not an immediate neighbour of G. D is sitting to the immediate left of B. Exactly three people are sitting between E and F when counted from the right of E. B and E are not immediate |
| | neighbours. How many people are sitting between E and G when counted from the right of E? |
| Ans | X 1.2 |
| | X 2.1 |
| | ★ 3.3 |
| | ✓ 4.4 |
| | |
| ection | : General Awareness |
| Q.1 | 0.25 g of an organic compound, on treatment with fuming nitric acid followed by AgNO ₃ , gave 0.22 g of AgBr. The percentage of bromine in the compound is |
| Ans | X 1. 34.04% |
| | ★ 2.88.00% |
| | ✓ 3. 37.45% |
| | X 4.50.00% |
| Q.2 | Rani ki Vav is a UNESCO world heritage monument, situated in which of the following states? |
| Ans | X 1. Haryana |
| | ✓ 2. Gujarat |
| | X 3. Maharashtra |
| | 🗙 4. Karnataka |
| Q.3 | Bathukamma festival is celebrated in which of the following states? |
| Ans | X 1. Uttar Pradesh |
| | |
| | X 3. Manipur |
| | |
| | X 4. Chhattisgarh |
| Q.4 | What is the collection of Vedic hymns or 'mantras' called? |
| Ans | √ 1. Samhita |
| | X 2. Smriti |
| | X 3. Shruti |
| | X 4. Upanishad |
| Q.5 | Usha Barle, who won Padma Shri 2023, is popularly associated with which genre of music? |
| Ans | X 1. Lavani |
| | √ 2. Pandwani |
| | X 3. Panihari |
| | X 4. Kajari |
| | A - regain |
| Q.6 Ans | In which of the following years India hosted the Women's Asia Cup ODI Cricket? |
| Alla | X 1.2005 |
| | X 2. 2007 |
| | ★ 3. 2004 |
| | ◆ 4. 2006 |
| Q.7 | Alarmel Valli was associated with which of the following dances? |
| Ans | X 1. Odissi |
| | √ 2. Bharatanatyam |
| | 🗙 3. Kathak |
| | 🗙 4. Manipuri |
| Q.8 | When protein-rich gelatinous egg white is heated, it turns to solid white due to: |
| Ans | 1. Protein Denaturation |
| | X 2. Emulsification |
| | X 3. Fermentation |
| | X 4. Gluten Formation |
| 0.5 | |
| Q.9 Ans | In which of the following states are the Nor Westers known as 'Bardoisila'? X 1. Bihar |
| | ✓ 2. Assam |
| | 2.700diff |
| | Y a odish |
| | X 3. OdishaX 4. Goa |

Q.19 In a certain code language, 'MELT' is coded as '6284' and 'TUNE' is coded as '9758'. What is the code for 'T' in that language?

| Q.10 | Which of the following statements is/are correct? |
|-------------|---|
| | A)Balshastri Jambhekar started the first Anglo- Maratha newspaper - 'Durpun', in 1832. B)He is remembered as the father of Marathi journalism. |
| | C)Balshastri Jambhekar published the first Marathi monthly magazine - 'Digdurshun' in 1840. |
| Ans | X 1. Only B |
| | X 2. Only A |
| | X 3. Both A and B |
| | √ 4. A, B and C |
| Q.11 | Identify the correct statement with reference to the Padma awards. |
| Ans | X 1. The Padma award can be used as a suffix or prefix to the awardees' name |
| | X 2. The total number of Padma awards to be given in a year should not more than 150. |
| | 3. The Padma Awards are given annually. |
| | X 4. The names of the awardees are never published in the Gazette of India. |
| Q.12 | Which of the following is NOT a component of revenue receipt? |
| Ans | ✓ 1. Amount borrowed from World Bank |
| | X 2. GST |
| | X 3. Fees paid for the registration of property |
| | X 4. Grant received by UNESCO |
| Q.13 | According to the Census of India 2011, what was the population growth rate in Kerala? |
| Ans | ✓ 1. 4.91% |
| | × 2. 15.01% |
| | × 3. 8.10% |
| | × 4. 12.65% |
| | |
| Q.14 Ans | In April 2023, who was appointed as the chairman of the National Technical Research Organisation (NTRO) by the centre? 1. Arvind Kumar |
| Alls | 2. Arun Sinha |
| | X 3. Anii Dhasmana |
| | X 4. Ajit Doval |
| | |
| Q.15 Ans | Which of the following is an example of the first garden-tomb on the Indian subcontinent? |
| Alls | X 1. Tomb of Tansen X 2. Safdarjung's tomb |
| | ✓ 3. Humayun's tomb |
| | X 4. Tomb of Itimad-ud-Daulah |
| | () 4. Tomb of rained de Section |
| Q.16 Ans | According to the Census 2011, what was the annual population growth rate of India (in percentage)? X 1. 1.97% |
| Ans | × 2.2.16% |
| | X 3. 2.22% |
| | ✓ 4. 1.64% |
| | 4. 1.0470 |
| Q.17 | The Indian Forest Service was created under the All India Service Act, 1951 in |
| Ans | X 1. 1954 |
| | √ 2.1966 |
| | X 3. 1060 X 4. 1957 |
| | W 4- 1991 |
| Q.18 | Organisation of agriculture and animal husbandry is included in which of the following Articles of the Indian Constitution? |
| Ans | ✓ 1. Article 48 |
| | X 2. Article 47 |
| | X 3. Article 46 |
| | X 4. Article 45 |
| Q.19 | In which of the following Indian states is the M.A. Chidambaram Stadium located? |
| Ans | X 1. West Bengal |
| | X 2. Kerala |
| | X 3. Karnataka |
| | ✓ 4. Tamil Nadu ——————————————————————————————————— |
| Q.20 | The famous English novel 'Em and the Big Hoom' is written by: |
| Ans | X 1. Esther David |
| | X 2. Amitav Ghosh |
| | ◆ 3. Jerry Pinto |
| | X 4. Shashi Tharoor |
| Q.21 | Which of the following is NOT an element of weather? |
| Ans | X 1. Temperature |
| | X 2. Humidity |
| | |
| | X 4. Rainfall |

| Q.22 | Which of the following organisms is used in bread and alcohol industries? |
|---------|---|
| Ans | X 1. Clostridium |
| | X 2. Nitrobacter |
| | |
| | X 4. Penicillium |
| Q.23 | In Union Budget 2023-24, annual production of 5 MMT under Green Hydrogen Mission is to be targeted by the year |
| Ana | to facilitate transition of the economy to low carbon intensity. |
| Ans | X 1.2032 ✓ 2.2030 |
| | X 3.2023 |
| | X 4. 2027 |
| | N 4. 2021 |
| Q.24 | The Prime Minister in India is |
| Ans | X 1. a nominal executive |
| | 2. the real executive |
| | X 3. the Supreme Commander of Armed ForcesX 4. the head of the judiciary |
| | 4. the head of the judicially |
| Q.25 | According to the Census of India-2011, what is the share of workforce engaged in the agriculture sector? |
| Ans | √ 1. 54.6% |
| | X 2.65.3% |
| | X 3.48.9% |
| | ★ 4.45.8% |
| Section | : English Language and Comprehension |
| Q.1 | Select the correct spelling to fill in the blank. |
| | Wedding is an auspicious for all. |
| Ans | X 1. occassion |
| | ★ 2. occation |
| | |
| | X 4. ocassion |
| Q.2 | Select the most appropriate synonym of the given word. |
| | Commence |
| Ans | X 1. Subvert |
| | X 2. Exert |
| | ✓ 3. Start ★ 4. Escort |
| | A 4. L3001 |
| Q.3 | In the given sentence, one of the four underlined words is incorrectly spelt. Identify the INCORRECTLY spelt word. |
| | She <u>dabbled</u> in <u>drawing</u> and painting, but <u>scalpture</u> was her <u>favourite</u> medium. |
| Ans | X 1. drawing |
| | X 2. favourite |
| | X 3. dabbled |
| | |
| Q.4 | Select the most appropriate option to fill in the blank. |
| | I couldn't believe how the math problem was; it took me hours to solve it. |
| Ans | X 1. good |
| | 2. complicated |
| | X 3. simply |
| | X 4. easily |
| Q.5 | Read the following sentence and select its future tense form from the options given below: Sarah and Fidha entered into an agreement to share the resources that are currently accessible. |
| Ans | 1. Sarah and Fidha are entering into an agreement to share the resources that are currently accessible. |
| | 2. Sarah and Fidha will enter into an agreement to share the resources that are currently accessible. |
| | X 3. Sarah and Fidha had entered into an agreement to share the resources that are currently accessible. |
| | X 4. Sarah and Fidha were entered into an agreement to share the resources that are currently accessible. |
| 0.6 | |
| Q.6 | Select the most appropriate option to fill in the blanks. |
| | When Mr. Bhanot was told a few years back that he needed to lose or face health problems, he transformed his life with the of a personal trainer. |
| Ans | √ 1. weight; help |
| | X 2. money; instructions |
| | X 3. wait; assistance |
| | ★ 4. patience; guidance |

| Q.7 | Select the most appropriate option to fill in the blank. |
|------|--|
| | Confession is good for the soul after the soul has been claimed. |
| Ans | X 1. since |
| | 💢 2. though |
| | X 3. still |
| | ◆ 4. even |
| Q.8 | Select the most appropriate option to fill in the blank. |
| | She was a,astronaut. |
| Ans | ✓ 1. smart, tall, Indian |
| | X 2. tall, smart, Indian |
| | X 3. smart, Indian, tall |
| | X 4. tall, Indian, smart |
| Q.9 | Select the most appropriate ANTONYM of the given word. |
| | Callous |
| Ans | X 1. Augment |
| | X 2. Desolate |
| | ◆ 3. Tender |
| | X 4. Beguile |
| Q.10 | Select the most appropriate synonym for the given word. |
| Ans | Species 1. Whole |
| Alls | 2. Type |
| | X 3. Detail |
| | X 4. Multiply |
| | · · · · · · · · · · · · · · · · · · · |
| Q.11 | Select the most appropriate ANTONYM of the given word. Tranquil |
| Ans | X 1. Composed |
| | X 2. Serene |
| | X 3. Shabby |
| | |
| Q.12 | Identify the word with a spelling error in the following sentence. Select the option that correctly rectifies the error. |
| Ans | In Shakespeare's play 'Hamlet', Hamlet's flaw is defined as procrustineition. X 1. pracrostination |
| | X 2. procristineition |
| | X 3. procrustination |
| | √ 4. procrastination |
| Q.13 | In the following sentence the underlined part contains an error. Alternatives to the underlined part are given as options. |
| | Select the correct alternative. Mary is the <u>quieter</u> student of the class. |
| Ans | X 1. quiet |
| | X 2. most quiet |
| | X 3. more quiet |
| | √ 4. quietest |
| Q.14 | Select the sentence with the most appropriate comparative degree. |
| Ans | ★ 1. She is the talent of all musicians in the orchestra. |
| | ★ 2. She is the talentedest musician in the orchestra. |
| | X 3. She is more talented musician in the orchestra. |
| | 4. She is the most talented musician in the orchestra. |
| Q.15 | Parts of the following sentence have been given as options. Select the option that contains a grammatical error. |
| | Ms. Malathi is old much to join a college now. |
| Ans | ★ 1. a college now |
| | X 2. to join |
| | X 3. Ms. Malathi is |
| | |
| Q.16 | Select the most appropriate meaning of the given idiom. |
| Ans | Let the cat out of the bag X 1. To buy a cat and a bag |
| | 2. To reveal a secret |
| | X 3. To not allow a cat into the bag |
| | X 4. To release a cat out of a bag |
| | |

| Q.17 | Based on the situation in the sentence, choose the most appropriate idiom to fill in the blank. You cannot before replicating your successes and achievements multiple times; otherwise, people will |
|-------------|---|
| Ans | deem your success a stroke of dumb luck. X 1. play devil's advocate |
| | X 2. sit on the fence |
| | X 3. cut to the chase |
| | |
| Q.18 | Select the correct indefinite article to fill in the blank. |
| | My neighbour is passionate photographer. |
| Ans | X 1. one |
| | X 2. an |
| | ✓ 3. a ✓ 4. the |
| Q.19 | Select the most appropriate ANTONYM of the bracketed word in the sentence given below. |
| | Surrounded by lush greenery, the house stood (submissively) atop a hill. |
| Ans | X 1. Silently |
| | X 2. Civilly |
| | X 3. Magically |
| | ◆ 4. Proudly |
| Q.20 | Select the most appropriate option to substitute the underlined segment in the given sentence. |
| | Shebna decided to take <u>a break in social media</u> , but she found it difficult to disconnect completely. |
| Ans | X 1. a break of social media |
| | 2. a break in social media |
| | X 3. a break up social media X 4. a break down social media |
| | () 4. a bleak down social filedia |
| | Comprehension: In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. |
| | Education is fundamental for achieving full human potential, developing an equitable and (1) |
| Q.21 | SubQuestion No : 21 Select the most appropriate option to fill in blank number 1. |
| Ans | ✓ 1. just ★ 2. much |
| | X 3. such |
| | X 4. more |
| | Comprehension: |
| | In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. |
| | Education is fundamental for achieving full human potential, developing an equitable and (1) |
| | SubQuestion No : 22 |
| Q.22 Ans | Select the most appropriate option to fill in blank number 2. X 1. access at |
| | ✓ 2. access to |
| | X 3. access from |
| | ★ 4. access for |
| | Comprehension: |
| | In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. |
| | Education is fundamental for achieving full human potential, developing an equitable and (1) |
| 0.22 | SubQuestion No : 23 |
| Q.23 Ans | Select the most appropriate option to fill in blank number 3. **\times 1. outcome** |
| | × 2. output |
| | X 3. result |
| | ✓ 4. forward |

| | Comprehension: |
|------|--|
| | In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. |
| | Education is fundamental for achieving full human potential, developing an equitable and (1) society, and promoting national development. Providing universal (2) quality education is the key to India's continued ascent, and leadership on the global stage in terms of economic growth, social justice and equality, scientific advancement, national integration, and cultural preservation. Universal high-quality education is the best way (3) for developing and maximising our country's rich talents and resources for the good (4) the individual, the society, the country and the world. India (5) the highest population of young people in the world over the next decade, and our ability to provide high-quality educational opportunities to them will determine the future of our country. |
| | SubQuestion No : 24 |
| Q.24 | Select the most appropriate option to fill in blank number 4. |
| Ans | √ 1. of |
| | X 2. from |
| | X 3. at |
| | ★ 4. for |
| | Comprehension: |
| | In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. |
| | Education is fundamental for achieving full human potential, developing an equitable and (1) society, and promoting national development. Providing universal (2) quality education is the key to India's continued ascent, and leadership on the global stage in terms of economic growth, social justice and equality, scientific advancement, national integration, and cultural preservation. Universal high-quality education is the best way (3) for developing and maximising our country's rich talents and resources for the good (4) the individual, the society, the country and the world. India (5) the highest population of young people in the world over the next decade, and our ability to provide high-quality educational opportunities to them will determine the future of our country. |
| | SubQuestion No : 25 |
| Q.25 | Select the most appropriate option to fill in blank number 5. |
| Ans | √ 1. will have |
| | X 2. were having |
| | X 3. might had |
| | X 4. can has |