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**TEST BOOKLET**  
**GENERAL STUDIES**  
**PAPER - II**

**Test Time Allowed : (02:00PM to 04:00PM) 2 Hours**

**Maximum Marks : 200**

**INSTRUCTIONS**

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED. BY A COMPLETE TEST BOOKLET.
2. **Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/ discrepancy will render the Answer Sheet liable for rejection.**
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. DO NOT write anything else on the Test Booklet. 
4. This Test Booklet contains **80 items** (questions). Each item is printed in **English**. Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
5. You have to mark 'all your responses **ONLY** on the separate Answer Sheet provided. See directions in the Answer Sheet.
6. **All items carry equal marks.**
7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator only the Answer Sheet. You are permitted to take this Test Booklet with you.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. **Penalty for wrong answers :**  
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE IN ALL THE QUESTIONS.
  - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer is given by the candidate, one-third of the marks assigned to that question will be deducted as penalty.
  - (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above to that question.
  - (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.

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Read the following passages and answer the items that follow the passages. Your answers to these items should be based on the passages only

**Passage: 1**

Gender sensitization is an indispensable transformative process, engendering an acute cognizance of the intricate social and cultural disparities intrinsic to the dichotomy between men and women. This imperative initiative seeks to dismantle entrenched stereotypes and prejudices that precipitate systemic discrimination, violence, and injustice against women and girls in the Indian context. The pivotal outcome of gender sensitization lies in fostering parity and empowerment, integral to the nation's advancement. By disseminating erudition and cultivating awareness regarding gender nuances, we catalyze the genesis of a society that is not only inclusive and harmonious but also founded upon profound respect for all its constituents.

1. Which one of the following statements best encapsulates the intricate dynamics of gender sensitization as suggested by the passage?
  - (a) Gender sensitization is a passive endeavor, incapable of effecting substantial change in societal attitudes towards gender.
  - (b) Gender sensitization serves as a catalyst for dismantling deeply rooted societal norms that perpetuate discrimination and injustice against women and girls.
  - (c) Gender sensitization is an obsolete concept, overshadowed by other pressing issues in contemporary society.
  - (d) Gender sensitization reinforces traditional gender roles and exacerbates social divisions between men and women.

**Passage: 2**

Sanitary facilities are imperative for ameliorating the health, hygiene, and inherent dignity of myriad individuals in India. As per the World Health Organization, approximately 600 million people persist in the deleterious practice of open defecation, exposing them to sundry maladies and environmental perils. Toilets serve as bulwarks against the dissemination of debilitating infections such as diarrhea, cholera, and typhoid, prevalent culprits behind millions of annual fatalities, particularly amongst the vulnerable demographic of children below five years. Furthermore, toilets safeguard the security and confidentiality of women and girls. They also substantiate India's economic and societal progression by curtailing time and resources squandered on locating suitable defecation sites, concurrently enhancing overall productivity and educational pursuits. Ergo, toilets transcend mere convenience; they epitomize a cardinal facet of human rights and dignity.

2. Which one of the following statements best reflects the most logical and rational message conveyed by the author of the passage?
  - (a) Sanitary facilities are primarily a luxury especially in regions where open defecation is culturally accepted.
  - (b) The provision of toilets is essential not only for promoting public health but also for upholding human rights and dignity, particularly for marginalized communities.
  - (c) Open defecation is a benign practice that has minimal impact on public health and environmental sustainability, as suggested by some scholars.
  - (d) Toilets have limited significance

in societal and economic development, with their benefits being outweighed by the costs of construction and maintenance.

Passage:3

Primary education stands as the bedrock of a nation's developmental edifice, constituting the inaugural phase of formal scholasticism designed to adeptly prepare progeny for subsequent academic tiers and societal integration. In India, the primary education ambit steadfastly aspires towards universal accessibility, unwavering quality, impartiality, and the integration of children, particularly those ensconced in the margins of societal advantage. Encompassing grades 1 to 5, this educational mandate is obligatory for minors aged 6 to 14. The curriculum spans fundamental disciplines such as language, mathematics, science, social studies, and environmental education, concurrently instilling values, competencies, and attitudes requisite for nurturing responsible citizenship and fostering perpetual erudition.

3. Which one of the following statements best encapsulates the primary objective underscored by the author in delineating the significance of primary education?
- (a) Primary education, as portrayed in the passage, is a dispensable phase of schooling, particularly designed for children aged 6 to 14.
  - (b) The primary focus of primary education in India, according to the passage, is to exacerbate social disparities by excluding marginalized children from educational opportunities.
  - (c) The primary education serves as the cornerstone of a nation's educational structure, aiming to ensure universal accessibility,

quality, and integration, especially for disadvantaged children.

- (d) The passage suggests that primary education in India prioritizes subjects such as mathematics and science over essential life skills and values, thus hindering holistic development.

Passage:4

The almanac, an archaic compendium, elucidates an encyclopedic array of celestial, meteorological, and agrarian data. This erudite chronicle navigates the astronomical intricacies, offering prognostications and delineations of climatic nuances. Beyond celestial contemplation, the almanac delves into agro-phenology, guiding agricultural pursuits with sagacious insights. It serves as a venerated repository, encapsulating the ephemeris, planetary positions, and climatological prophecies, woven into an intricate tapestry of terrestrial phenomena. This compendium, steeped in esoteric lore, transcends mere informational utility, manifesting as a time-honored repository of erudition, catering to the cognoscenti and connoisseurs of traditional wisdom.

4. Which one of the following statements best implies the most rational assumption that can be made from the passage?
- (a) The almanac is primarily a tool used for weather forecasting and agricultural planning, devoid of any historical or cultural significance.
  - (b) The almanac, while containing celestial and meteorological data, has limited utility and is not valued by individuals interested in traditional wisdom.
  - (c) The almanac is a comprehensive and revered compendium that integrates celestial,



meteorological, and agrarian knowledge, embodying centuries of wisdom and tradition.

- (d) The almanac serves as a superficial guide with little depth or complexity, lacking the esoteric lore and intricate insights attributed to it in the passage.

Passage:5

Neptune, occupies the outermost echelon in the Solar System, reigning as the fourth-largest in diameter and third-most ponderous by mass. Boasting a formidable mass, surpassing Earth's magnitude seventeen-fold, it eclipses its celestial kin, the akin Uranus, with a marginal augmentation in mass and a slightly more expansive corpus. Completing a solar circumnavigation every 164.8 years at a mean distance of 30.1 astronomical units, Neptune derives its nomenclature from the Roman god of the sea, epitomizing its aquatic prowess. Its astronomical emblem, a stylized trident, pays homage to the god Neptune's dominion over the celestial aquatic realms.

5. Which one of the following statements best captures the essence of the passage, considering both the astronomical and mythological significance of Neptune?
- (a) The passage primarily emphasizes Neptune's rapid orbit around the Sun, which distinguishes it from other planets in the Solar System.
- (b) Neptune's designation as the fourth-largest planet in the Solar System is primarily attributed to its large mass compared to other celestial bodies.
- (c) The passage highlights Neptune's position as a dominant celestial entity, symbolized by its association with the Roman god of the sea and its astronomical

emblem.

- (d) Despite its massive size, Neptune's significance in the Solar System is relatively minor, overshadowed by other planets such as Jupiter and Saturn.

Passage:6

Indigenous wildlife, integral to India's biodiverse mosaic and cultural legacy, assumes a cardinal role in preserving ecological equilibrium and bestowing an array of ecosystem services, including pollination, seed dispersal, pest mitigation, soil enrichment, water purification, and climate modulation. Wild denizens not only contribute to the national economy but also sustain livelihoods, catering to sustenance, medicinal requisites, and serving as linchpins in the realms of tourism, leisure, and spiritual symbolism. Despite their paramount importance, these creatures grapple with existential threats like habitat degradation, illicit trade, human-wildlife strife, climatic perturbations, and invasive species. Hence, steadfast conservation efforts are imperative, safeguarding these species for their inherent value and the well-being of present and forthcoming generations.

6. How can the confluence of indigenous wildlife conservation and socio-economic resilience be synergized to combat the pervasive challenges of habitat degradation and human-wildlife conflict, thereby ensuring the perpetuation of India's rich biodiversity heritage?
- (a) Indigenous wildlife in India is facing numerous challenges, but conservation efforts are unnecessary due to their adaptability to changing environments.
- (b) Indigenous wildlife in India plays a

vital role in maintaining ecological balance and cultural heritage, necessitating robust conservation measures to counteract existential threats.

- (c) The economic benefits derived from indigenous wildlife in India outweigh the costs associated with conservation efforts, making it a less pressing concern for policymakers.
- (d) Given the widespread habitat degradation and human-wildlife conflict in India; it is futile to invest resources in conservation efforts for indigenous wildlife.

**Passage:7**

Post offices are indispensable institutions that facilitate myriad forms of communication and financial transactions across the nation. They are instrumental in delivering mails, remitting money by money orders, accepting deposits under various schemes, providing life insurance coverage, and offering retail services. Post offices have a colossal network of 1.5 lakh branches, which cater to the needs of millions of customers, especially in rural and remote areas. Post offices have also contributed to the socio-economic development of the country by mobilizing savings and promoting financial inclusion. Post offices are thus quintessential for the smooth functioning of the society.

7. Which one of the following statements best reflects the most logical and rational inference that can be drawn from the passage?
- (a) Post offices are merely ancillary institutions that have little impact on communication and financial transactions in society.
  - (b) The extensive network of post offices, particularly in rural

and remote areas, is redundant in the face of modern digital communication and banking services.

- (c) Post offices play a pivotal role in facilitating communication, financial transactions, and socio-economic development due to their widespread presence and diverse range of services.
- (d) Despite their widespread network, post offices are unable to effectively contribute to the socio-economic development of the country due to bureaucratic inefficiencies and outdated infrastructure.

**Passage:8**

Research is a vital component of the development and progress of any nation. It fosters innovation, creativity and problem-solving skills among the citizens. Research also contributes to the advancement of science, technology, culture and society. India, as a diverse and dynamic country, has immense potential for conducting research in various fields and domains. However, research in India faces many challenges, such as lack of funding, infrastructure, quality and recognition. Therefore, it is imperative to promote and support research in India by creating a conducive environment, providing adequate resources and incentives, enhancing collaboration and dissemination, and improving the quality and impact of research outputs. By doing so, India can harness the power of research to achieve its national goals and aspirations, as well as to contribute to the global knowledge economy.

8. Which one of the following statements best reflects the crux of the passage?
- (a) Research in India faces insurmountable challenges and is unlikely to contribute significantly

to national goals or the global knowledge economy.

- (b) India's diverse and dynamic nature presents ample opportunities for research, yet inadequate support and resources hinder its potential contribution to national and global advancement.
- (c) India has the necessary infrastructure and resources to excel in research, but lack of collaboration and dissemination prevent it from making significant contributions to science and technology.
- (d) Despite challenges, India's research endeavors are flourishing, and with proper incentives and support, they can propel the nation towards achieving its national goals and contributing to the global knowledge economy.

9. Consider the following assumptions based on the passage:

- 1. Research in India is primarily hindered by a lack of adequate resources and incentives.
- 2. The promotion and support of research in India have minimal impact on its national goals and contributions to the global knowledge economy.

Which of the assumptions given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Passage:9

The Indian Coast Guard (ICG) is an elite maritime law enforcement and search and rescue agency under the Ministry of Defence, Government of India. Established on 1 February 1977, the ICG

is responsible for safeguarding India's maritime interests, enforcing maritime laws, ensuring maritime safety, and responding to maritime emergencies. The ICG also provides protection and assistance to fishermen in distress, preserves and protects the marine environment, assists the Customs and other authorities in anti-smuggling operations, and enforces the Maritime Zones of India Act. The ICG plays a vital role in securing India's vast coastline and territorial waters from various threats and challenges.

10. What key responsibilities and functions does the Indian Coast Guard (ICG) undertake in safeguarding India's maritime interests and securing its coastline?

- 1. Enforcing maritime laws and ensuring maritime safety.
- 2. Providing protection and assistance to fishermen in distress.
- 3. Preserving and protecting the marine environment.

Select the correct answer using the code given below:

- (a) a and b only
- (b) b and c only
- (c) a and c only
- (d) All of the above

11. Which of the following statements best captures the primary intention of the author regarding the role and responsibilities of the Indian Coast Guard (ICG), as presented in the passage?

- (a) The Indian Coast Guard primarily focuses on enforcing maritime laws and responding to maritime emergencies.
- (b) The Indian Coast Guard is solely responsible for protecting and assisting fishermen in distress along India's coastline.



- (c) The Indian Coast Guard plays a pivotal role in safeguarding India's maritime interests, ensuring maritime safety, and addressing various maritime challenges.
- (d) The Indian Coast Guard's main function is to assist Customs and other authorities in anti-smuggling operations within India's territorial waters.
12. A can do work in 15 days and B in 20 days. If they work on it together for 4 days, then the fraction of the work that is left is:  
 (a)  $\frac{1}{4}$   
 (b)  $\frac{1}{10}$   
 (c)  $\frac{7}{15}$   
 (d)  $\frac{8}{15}$
13. Dev completed the school project in 20 days. How many days will Arun take to complete the same work if he is 25% more efficient than Dev?  
 (a) 10 days  
 (b) 12 days  
 (c) 16 days  
 (d) 15 days
14. Time taken by A to finish a piece of work is twice the time taken B and thrice the time taken by C. If all three of them work together, it takes them 2 days to complete the entire work. How much work was done by B alone?  
 (a) 2 days  
 (b) 6 days  
 (c) 3 days  
 (d) 5 days
15. Sonal and Preeti started working on a project and they can complete the project in 30 days. Sonal worked for 16 days and Preeti completed the remaining work in 44 days. How many days would Preeti have taken to complete the entire project all by herself?  
 (a) 20 days  
 (b) 25 days  
 (c) 55 days  
 (d) 60 days
16. A man completes  $\frac{7}{8}$  of a job in 21 days. How many more days will it take him to finish the job if quantum of work further increased by 50%?  
 (a) 24  
 (b) 21  
 (c) 18  
 (d) 15
17. Three labourers worked together for 30 days, in the course of work, all of them remained absent for few days. One of them was absent for 10 days more than the second labourer and the third labourer did one-third of the total work. How many days more than the third labourer was the first one absent?  
 (a) 4  
 (b) 5  
 (c) 6  
 (d) cannot be determined
18. A and B do a work in exactly 16 days, B and C do the same work in exactly 12 days while C and A do the same work in about 10 days. If A, B and C can together do the work in integral number of days, then C does the work alone in  
 (a) 15 days  
 (b) 16 days  
 (c) 18 days  
 (d) None of these
19. Two persons A and B can do a work alone in 29 days. A takes the rest of one day after every 4 days and B takes the rest of one day after every 5 days. If A and B starts working together, then the work will be completed on  
 (a) 15th day  
 (b) 16th day  
 (c) 17th day  
 (d) 18th day

20. Works W1 and W2 are done by two persons A and B. A takes 80% more time to do the work W1 alone than he takes to do it together with B. How much percent more time B will take to do the work W2 alone than he takes to do it together with A?
- (a) 100%  
 (b) 120%  
 (c) 125%  
 (d) Can not be determined
21. 12 men and 16 boys can do a piece of work in 5 days and 13 men and 24 boys can do it in 4 days. Compare the daily work done by a man with that done by a boy.
- (a) 3 : 2  
 (b) 2 : 1  
 (c) 4 : 7  
 (d) 3 : 1
22. It takes 6 hours for three pipes, X, Y and Z to fill a tank. When the three worked together for 2 hours, Z was closed and, X and Y filled the remaining tank in 7 hours. How many hours would it take Z alone to fill the tank?
- (a) 15 hours  
 (b) 23 hours  
 (c) 12 hours  
 (d) 14 hours
23. It takes two pipes A and B, running together, to fill a tank in 6 minutes. It takes A 5 minutes less than B to fill the tank, then what will be the time taken by B alone to fill the tank?
- (a) 10 minutes  
 (b) 15 minutes  
 (c) 20 minutes  
 (d) 25 minutes
24. Pipes A and B can fill a tank in 5 and 6 hours respectively. Pipe C can empty it in 12 hours. If all the three pipes are opened together, then the tank will be filled in:
- (a)  $1 \frac{13}{17}$  hours  
 (b)  $2 \frac{8}{11}$  hours  
 (c)  $3 \frac{9}{17}$  hours  
 (d)  $4 \frac{1}{2}$  hours
25. Pipe "X" fills a tank in 10 minutes. Pipe "Y" fills that tank in 12 minutes. How much time do these two pipes together take to fill the tank?
- (a) 120/22 minutes  
 (b) 100/10 minutes  
 (c) 150/12 minutes  
 (d) More than one of the above
26. Two pipes A and B can fill a tank in 36 hours and 46 hours respectively. If both the pipes are opened simultaneously, how much time will be taken to fill the tank?
- (a) 10 hours  
 (b) 20 hours  
 (c) 15 hours  
 (d) 25 hours
27. Two pipes can fill a tank in 10 hours and 12 hours respectively while a third, pipe empties the full tank in 20 hours. If all the three pipes operate simultaneously, in how much time will the tank be filled?
- (a) 10 hrs 10 min.  
 (b) 5 hrs 50 min.  
 (c) 8 hrs 50 min.  
 (d) 7 hrs 30 min.



28. If two pipes function simultaneously, the reservoir will be filled in 12 hours. One pipe fills the reservoir 10 hours faster than the other. How many hours does it take the second pipe to fill the reservoir?

- (a) 45 hours
- (b) 17 hours
- (c) 40 hours
- (d) 30 hours

29. What symbol comes next: \*, \$\$, \*\*\*, \$\$\$\$\$, \_\_\_?

- (a) \*\*\*\*\*
- (b) \*\*\*\*
- (c) \*\*\*\*\*
- (d) \$\$\$\$\$\$

30. If '+' stands for division, '÷' stands for multiplication, 'x' stands for subtraction and '-' stands for addition, which one of the following is correct?

- (a)  $18 \div 6 - 7 + 5 \times 2 = 20$
- (b)  $18 + 6 \div 7 \times 5 - 2 = 18$
- (c)  $18 \times 6 + 7 \div 5 - 2 = 16$
- (d)  $18 \div 6 \times 7 + 5 - 2 = 22$

31. If '+' stands for multiplication, 'x' stands for division, '-' stands for addition and '-' stands for subtraction, what is the answer for the following equation? If L = +, M = -, N = x, P = ÷, then  $5 N 5 P 5 L 5 M 5 = ?$

- (a) 0
- (b) 5
- (c) 10
- (d) 15

32. In the following question you have to identify the correct response from the given premises stated according to following symbols.

$$12348 = 0$$

- (a) - + +
- (b) ÷ + ÷
- (c) - - -
- (d) ÷ + -

33. If  $4 \odot 5 = 189$  and  $10 \odot 8 = 1512$  then  $6 \odot 9 =$

- (a) 945
- (b) 1148
- (c) 983
- (d) 764

34.  $4 - 4 = 17$ ,  $6 - 6 = 37$ ,  $2 - 2 = 5$ ,  $5 - 5 = ?$

- (a) 27
- (b) 26
- (c) 20
- (d) 24

Read the following passages and answer the items that follow the passages. Your answers to these items should be based on the passages only

Passage:1

The censor board in India, officially known as the Central Board of Film Certification (CBFC), is a statutory body that regulates the public exhibition of films in the country. The CBFC has the authority to certify films according to their suitability for different age groups and to suggest or impose cuts or modifications on the content. The CBFC has often been criticized for its arbitrary and inconsistent decisions, as well as for its alleged interference with the artistic freedom and expression of filmmakers. Some of the contentious issues that the CBFC has faced include the depiction of violence, sexuality, religion, politics, and social issues in films.

35. Which one of the following statements best reflects the most critical inference that can be made from the passage given above?

- (a) The Central Board of Film Certification (CBFC) maintains consistent and transparent decision-making processes.
- (b) The CBFC's regulatory actions have been universally praised for balancing artistic freedom and societal sensitivities.

- (c) The CBFC has frequently faced criticism for its subjective decisions and alleged infringement on filmmakers' artistic expression.
- (d) The CBFC primarily focuses on promoting creative expression in films without considering societal norms or cultural sensitivities.

Passage:2

Keeladi is a diminutive hamlet in Tamil Nadu, where archaeologists have unearthed a Sangam-era settlement. The excavations reveal that the inhabitants of Keeladi had a sophisticated urban culture, proficient in agriculture and cattle rearing. The carbon samples and Tamil-Brahmi inscriptions date back to the 6th century BCE, indicating the antiquity and literacy of the Tamils. The artefacts recovered from Keeladi include ring wells, pottery, ornaments and faunal remains. Keeladi is a significant site for understanding the cultural historiography of the Sangam age and the second urbanization in Tamil Nadu.

36. Which one of the following statements most likely reflects what the author of the passage intends to convey?
- (a) Keeladi's excavation highlights the sophistication of urban culture among its ancient inhabitants.
  - (b) The artifacts found at Keeladi provide insights into the literacy levels of Tamil society during the Sangam era.
  - (c) The discovery of carbon samples and Tamil-Brahmi inscriptions in Keeladi aids in dating the settlement back to the 6th century BCE.
  - (d) Keeladi's significance lies in its contribution to understanding the cultural historiography of Tamil Nadu's second urbanization during the Sangam age.

Passage:3

The inception of Indian Institutes of Technology (IITs) was propelled by the exigency to cultivate an elite cadre of technocrats poised to spearhead India's technological renaissance. Envisioned as crucibles of innovation, these institutions are mandated to foster a confluence of academic rigor and research acumen, thereby incubating a milieu conducive to the germination of pioneering ideas and cutting-edge solutions. The overarching aim is to sculpt a vanguard of visionary engineers and scientists capable of navigating and surmounting the multifaceted challenges inherent in the global tech frontier.

37. Which one of the following statements best reflects the most critical inference that can be made from the passage given above?
- (a) The Indian Institutes of Technology (IITs) are envisioned as crucial institutions for fostering innovation and academic excellence in India's technological landscape.
  - (b) The primary goal of the Indian Institutes of Technology (IITs) is to cultivate a highly skilled cadre of technocrats capable of leading India's technological renaissance.
  - (c) Indian Institutes of Technology (IITs) are designed to provide a platform for the convergence of academic rigor and research expertise, aiming to nurture pioneering ideas and cutting-edge solutions.
  - (d) The overarching mandate of the Indian Institutes of Technology (IITs) is to shape visionary engineers and scientists who can effectively address the diverse challenges present in the global technology sector.

Passage:4

The Youth Red Cross (YRC) is an exemplary organization, epitomizing the quintessence of humanitarian aid and volunteerism. Its primary objective is to inculcate an ethos of care and empathy among the youth for the underprivileged and distressed. The YRC endeavors to facilitate holistic development of young minds through meticulous engagement in altruistic activities, thereby fostering a cadre of individuals equipped with the acumen to tackle humanitarian crises. This noble institution operates under the aegis of the International Red Cross and Red Crescent Movement, with a steadfast commitment to assuaging human suffering sans discrimination. The YRC's mission is a clarion call to youth, galvanizing them to partake in benevolent endeavors, thus sculpting a future replete with compassion and solidarity.

38. Which one of the following statements best reflects the most critical inference that can be made from the passage given above?
- (a) By ensuring meticulous engagement in altruistic activities to facilitate holistic development.
  - (b) Through its commitment to assuaging human suffering without discrimination under the aegis of the International Red Cross and Red Crescent Movement.
  - (c) By embodying the quintessence of humanitarian aid and volunteerism to galvanize youth towards benevolent endeavors.
  - (d) By operating as an exemplary organization that epitomizes the ethos of care and empathy, while also preparing youth to tackle humanitarian crises effectively.

Passage:5

The Dutch foray into the Indian subcontinent was primarily driven by mercantile ambitions, spearheaded by the Dutch East India Company. Established as a monopolistic trading body, the company sought to assert dominance over the lucrative spice trade, leading to a series of maritime confrontations and territorial annexations. Their presence was marked by strategic economic interventions rather than outright military conquests, focusing on establishing a network of trading posts and fortifications along the Malabar Coast. However, their influence waned in the face of stiff competition from the British and French colonial powers, eventually culminating in a gradual retreat and cessation of their operations in India.

39. What were the primary motivations driving the Dutch into the Indian subcontinent, as described in the paragraph?

- 1. Mercantile ambitions
- 2. Assertion of dominance over the spice trade
- 3. Establishment of military dominance
- 4. Cultural exchanges and alliances

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1, 2, and 4 only
- (d) 1, 2, and 3 only

Passage:6

The majestic White Tigers, an iconic symbol of India's diverse wildlife, are a genetic marvel resulting from a rare recessive gene found in Bengal tigers. These magnificent creatures, with their striking blue eyes and creamy white fur adorned with charcoal stripes, command awe and respect. Historically prevalent in the verdant forests of India, their numbers



dwindled due to habitat loss and poaching. Conservation efforts have been pivotal in safeguarding these regal animals from the brink of extinction, ensuring they continue to thrive within the sanctuaries of India's wilderness. Their existence is not only a testament to nature's splendor but also a constant reminder of the delicate balance between wildlife and human expansion.

40. With reference to the above passage, the following assumptions have been made:

1. White tigers are exclusively found in India.

2. Conservation efforts alone have been successful in preserving white tigers.

Which of the above assumptions is/are valid?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Passage:7

The Khelo India mission has contributed significantly to India's glorious moments in international events including the Olympics, World Championships, Asian Games, and Commonwealth Games. Since 2018, both the participation of Khelo India athletes and their returns from global events have shown an upward trajectory. In 2022, 495 Khelo India athletes won 312 medals, with close to 63% of athletes returning with a medal. In 2018, 92 athletes won 82 medals. Several sportspersons have taken up coaching as a career. Our system boasts of top coaches who keep producing results. In December 2022, many of them were promoted to high-performance coaches in the Sports Authority of India training centres and the National Centres of Excellence.

41. What is the most logical assumption that can be made from the passage given above?

- (a) The success of Khelo India athletes in international events is solely attributed to the coaching provided by the top coaches in the system.
- (b) The Khelo India mission has significantly improved the infrastructure and training facilities for athletes in India.
- (c) The promotion of coaches to high-performance roles indicates a shortage of qualified coaches in the Sports Authority of India training centres and National Centres of Excellence.
- (d) The number of medals won by Khelo India athletes has steadily increased each year since the inception of the program.

Passage:8

Handling the spent fuel is a challenge - it is hot and radioactive, and needs to be kept underwater for up to a few decades. Once it has cooled, it can be transferred to dry casks for longer-term storage. All countries with long-standing nuclear power programmes have accumulated a considerable inventory of spent fuel. For example, the U.S. had 69,682 tonnes (as of 2015), Canada 54,000 tonnes (2016), and Russia 21,362 tonnes (2014). Depending on radioactivity levels, the storage period can run up to many millennia, meaning "they have to be isolated from human contact for periods of time that are longer than anatomically modern Homo sapiens have been around on the planet," Dr. Ramana wrote.

42. Which among the following is the most logical and rational inference that can be made from the passage given above?

- (a) All countries with long-standing nuclear power programs face significant challenges in handling spent fuel due to its radioactive nature and the need for long-term storage solutions.
- (b) The United States, Canada, and Russia have the largest inventories of spent fuel among countries with long-standing nuclear power programs.
- (c) The storage of spent fuel poses a greater challenge for countries with larger populations due to the need for extensive isolation from human contact.
- (d) Dr. Ramana's research indicates that handling spent fuel poses minimal risks to human health and the environment in the long term.

Passage:9

The Committee on Digital Competition Law, formed by the Corporate Affairs Ministry last February, released its report on Tuesday, recommending legislation to regulate the market power of Big Tech firms like Google and Meta. The Competition Act of 2002 “intervenes after the occurrence of an anti-competitive conduct”, the committee said. “Such a framework was designed at a time when the extent and pace of digitalisation as is witnessed today could not be foreseen.” The recommendations, if implemented, would better equip the Competition Commission of India (CCI) to rule on competition matters.

43. With reference to the above passage, the following assumptions have been made:

- 1. The Competition Act of 2002 may not adequately address the market power of Big Tech firms due to the rapid pace of digitalization.
- 2. The recommendations proposed by the Committee on Digital Competition Law would enhance the Competition Commission of India's ability to adjudicate competition matters.

Which of the above assumptions is/are valid?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Passage:10

The Department of Pharmaceuticals issued the Uniform Code for Pharmaceutical Marketing Practices (UCPMP), 2024 on Tuesday, specifying the rules for the use of the words “safe” and “new” for drugs, and stated that medical representatives must not employ any inducement or subterfuge to gain an interview, and that they must not pay, under any guise, for access to a healthcare professional. Engagement of the pharmaceutical industry with healthcare professionals for Continuing Medical Education (CME) should only be allowed through a well-defined, transparent, and verifiable set of guidelines, and conduct of such events in foreign locations is prohibited by the uniform code.

44. Which among the following is the most logical and rational inference that can be made from the passage given above?

- (a) The Department of Pharmaceuticals aims to ensure ethical marketing practices within the pharmaceutical industry by issuing the Uniform Code for Pharmaceutical Marketing Practices (UCPMP), 2024.
- (b) The Department of Pharmaceuticals intends to restrict the engagement of pharmaceutical industry representatives with healthcare professionals to prevent unethical practices such as inducement or subterfuge.
- (c) The Uniform Code for Pharmaceutical Marketing Practices (UCPMP), 2024, emphasizes transparency and accountability in interactions between pharmaceutical companies and healthcare professionals.
- (d) The Department of Pharmaceuticals seeks to regulate the usage of specific terms like “safe” and “new” for drugs and prohibit inappropriate practices such as paying for access to healthcare professionals under any guise.

Passage:11

The announcement in the interim Budget for 2024-25, of a corpus of ₹1 lakh crore to bolster the research and innovation ecosystem within the country, has sparked enthusiasm within the scientific and research communities. The decision to rebrand the slogan, ‘Jai Jawan Jai Kisan’ (by Lal Bahadur Shastri) to ‘Jai Jawan, Jai Kisan, Jai Vigyan’ (A.B. Vajpayee) to now ‘Jai Jawan, Jai Kisan, Jai Vigyan, Jai

Anusandhan’ (by the Prime Minister) is intended to reinforce the foundation of research and innovation for development. The significance of research and innovation cannot be overstated in fuelling economic growth, technological advancement, and global competitiveness. However, to fully realise the impact, it is crucial to assess the current research and development (R&D) funding landscape in India and its resulting output.

45. Which one of the following statements best reflects the crux of the passage?

- (a) The interim Budget for 2024-25 allocated a significant amount of funds to bolster research and innovation in India, aiming to enhance economic growth and global competitiveness.
- (b) The rebranding of the slogan ‘Jai Jawan Jai Kisan’ to include ‘Jai Vigyan, Jai Anusandhan’ signifies a renewed commitment to research and innovation for development.
- (c) The passage highlights the challenges faced by research and innovation in India, despite the allocation of funds in the interim Budget.
- (d) Although research and innovation are crucial for economic growth and global competitiveness, the passage emphasizes the need for assessing the current R&D funding landscape in India.

46. Consider the following assumptions based on the passage:

1. The allocation of ₹1 lakh crore in the interim Budget will significantly bolster the research and innovation ecosystem in India.
2. The rebranding of the slogan ‘Jai Jawan Jai Kisan’ reflects a genuine commitment to reinforce



the foundation of research and innovation for development.

Which of the assumptions given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Passage: 12

In India, the cultivation of hard skills is paramount for professional advancement. The nation's burgeoning economy necessitates a workforce adept in technical competencies and specialized knowledge. From information technology to manufacturing, Indian professionals are honing their expertise to meet global standards. Mastery in data analytics, software development, and engineering principles is highly sought after. Additionally, fluency in foreign languages and an understanding of international market dynamics are considered valuable assets. The emphasis on hard skills is reflected in India's educational curriculum, which is increasingly focused on STEM subjects to prepare students for a competitive job market.

47. Based on the passage, which of the following assumptions about hard skills in India is correct?

- (a) Hard skills are primarily focused on information technology and software development.
- (b) Fluency in foreign languages is considered less valuable compared to technical competencies.
- (c) India's educational curriculum emphasizes STEM subjects to the detriment of other disciplines.
- (d) Mastery in data analytics, software development, and engineering principles is in high demand in India's job market.

48. Which inference can be logically drawn from the passage regarding the significance of hard skills in India?

- (a) Hard skills are irrelevant for professional advancement in India.
- (b) India's job market demands proficiency in a wide range of hard skills beyond STEM subjects.
- (c) The emphasis on hard skills in India's educational curriculum is diminishing over time.
- (d) Mastery in data analytics, software development, and engineering principles is only important for certain industries in India.

49. Select the correct combination of mathematical sign to replace \* signs and to balance the given equation. 15 \*

$$24 * 3 * 6 * 17$$

- (a) + ÷ - =
- (b) + x = ÷
- (c) - x = +
- (d) - ÷ + =

Now in each of the following questions assuming the given statements to be true, find which of the three conclusions I, II and III given below them is are definitely true and give your answer accordingly.

50. Statements: Z % M, M \* F, F δ D

Conclusions: I. F % Z II. F δ Z III. D @ Z

- (a) Only I is true
- (b) Only either I or II is true
- (c) Only II is true
- (d) Only III is true

51. Statements: D @ K, K % F, F © B

Conclusions: I. F δ D II. B @ K III. B % K

- (a) Only I is true
- (b) Only II is true
- (c) Only III is true
- (d) Only either II or III and I are true

52. Statements:  $N < O \geq R > T$ ;  $R < A$ ;  $B \leq T$   
 Conclusions: I.  $N < A$  II.  $B < A$   
 (a) If only conclusion I is true  
 (b) If only conclusion II is true  
 (c) If either conclusion I or II is true  
 (d) If neither conclusion I nor II is true
53. The average weight increases by 3 of group of 10 students, when a new student comes in place of one of them weighing 56 kg. What is the weight of new student?  
 (a) 90  
 (b) 86  
 (c) 89  
 (d) More than one of the above
54. The average weight of a class of 24 students is 36Kg. When the weight of the teacher is also included, the average weight increases by 1kg. What is the weight of the teacher?  
 (a) 58  
 (b) 61  
 (c) 64  
 (d) 67
55. The average of a batsman in 16 innings is 36. In the next innings, he is scoring 70 runs. What will be his new average?  
 (a) 38  
 (b) 40  
 (c) 44  
 (d) 48
56. A zoo has three monkey cages. 10 monkeys from Cage 1 is shifted to Cage 2 and 5 monkeys from cage 2 is shifted to Cage 3. Then what will happen to the average weight of monkeys in the zoo?  
 (a) It decreases  
 (b) It increases  
 (c) Remains same  
 (d) Data insufficient to draw any conclusions
57. The average marks of 50 students in a test is 80. It was found later that marks of one student was 93, but was misread as 43. Then corrected average marks is:  
 (a) 78  
 (b) 79  
 (c) 81  
 (d) 82
58. Statement 1: The average marks of Athira in GS1, GS2 and GS3 is 90  
 Statement 2: The average marks of Athira in GS2, GS3 and GS4 is 100  
 Question: Did Athira score more marks in GS1 compared to GS4?  
 Which one of the following is correct in respect to the Question and the statements?  
 (a) Statement 1 alone is sufficient to answer the question  
 (b) Statement 2 alone is sufficient to answer the question  
 (c) Statement 1 and statement 2 together are sufficient to answer the question  
 (d) Both Statement 1 and statement 2 are not sufficient to answer the question
59. 50 students of a classroom was divided into two groups A and B of 25 students each. Now Consider the given statements with respect to a test conducted in the class:  
 Statement 1: In group A highest score is 70 and lowest score is 50.  
 Statement 2: In group B highest score is 90 and lowest score is 75.  
 If 5 students from group A is shifted to group B, then which of the following is definitely correct?  
 (a) Average score of group B will decrease  
 (b) Average score of group B will increase  
 (c) Average score of group A will decrease  
 (d) Average score of group A will increase

60. What is the average of all the numbers if the average of six numbers is 74 and the seventh number is 79?
- (a) 72.01  
(b) 74.71  
(c) 84.44  
(d) 66.36
61. The mean of  $x$ ,  $x + 3$ ,  $x + 5$ ,  $x + 7$ ,  $x + 10$  is 9. What is the mean of the first 3 observations?
- (a) 7.3  
(b) 6.67  
(c) 7.8  
(d) 7
62. There are two sections A and B of a class consisting of 36 and 44 students respectively. If the average weight of section A is 40kg and that of section B is 35kg, find the average weight of the whole class?
- (a) 37.25  
(b) 37.02  
(c) 35.89  
(d) 33.45
63. There is a cuboid whose dimensions are  $4 \times 3 \times 3$  cm. The opposite faces of dimensions  $4 \times 3$  are coloured yellow. The opposite faces of other dimensions  $4 \times 3$  are coloured red. The opposite faces of dimensions  $3 \times 3$  are coloured green. Now, the cuboid is cut into small cubes of side 1 cm. How many small cubes will have only two faces coloured?
- (a) 12  
(b) 16  
(c) 20  
(d) 24
64. A cube of side 4 cm is painted green on the pair of one opposite surface, red on the pair of another opposite surface and black on remaining pair of opposite surfaces. The cube is now divided into smaller cubes of equal size of 1 cm each. Find the number of smaller cubes with three surfaces painted.
- (a) 6  
(b) 8  
(c) 16  
(d) 27
65. A dice is numbered from 1 to 6 in different ways. If 1 is adjacent to 2, 3 and 5, then which of the following statements is necessarily true?
- (a) 1 is adjacent to 4  
(b) 2 is adjacent to 5  
(c) 1 is adjacent to 6  
(d) 4 is adjacent to 6
66. The average age of a family of 6 members is 22 years. If the age of the youngest member be 7 years, what was the average age of the family at the birth of the youngest member?
- (a) 15  
(b) 12  
(c) 18  
(d) 21
67. If we choose four numbers, the average of the first three will be 16 and that of last three is 15. If the last number is 18, the first number will be
- (a) 20  
(b) 21  
(c) 23  
(d) 25



68. The average of 50 members is 38. If the two numbers, 45 and 55 are discarded the average of the remaining numbers will become

- (a) 36
- (b) 36.5
- (c) 37
- (d) 37.5

69. Average marks obtained by Raju in 3 papers is 52 and in the fourth paper, he scored 60 marks. Find the new average of marks scored by Raju.

- (a) 55
- (b) 54
- (c) 52
- (d) 53.5

70. Sonal and Preeti have begun the job on a project that they estimate will take them 30 days to complete. Preeti finished the remaining job 44 days after Sonal worked for 16 days. How long would it have taken Preeti to do the entire assignment on her own?

- (a) 20
- (b) 25
- (c) 55
- (d) 60

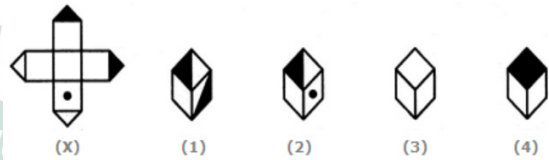
71. A finishes a piece of the job twice the time it takes B and three times the time it takes C. It will take them two days to accomplish the assignment if they all do it together. How much work did B do on his own?

- (a) 2 days
- (b) 6 days
- (c) 3 days
- (d) 5 days

72. Samir takes 6 days while Tanvir takes 8 days to complete a piece of the job on his own. This work cost Samir and Tanvir Rs.2400. The task was completed three days after Amir joined them. What was Amir's remuneration?

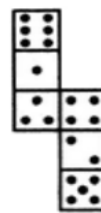
- (a) Rs. 300
- (b) Rs. 400
- (c) Rs. 800
- (d) Rs. 500

73. Choose the box that is similar to the box formed from the given sheet of paper (X).



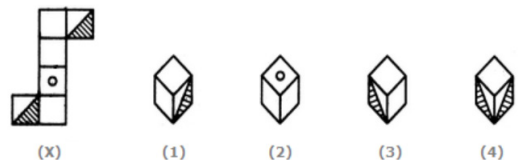
- (a) 1 and 2 only
- (b) 2 and 4 only
- (c) 2 and 3 only
- (d) 1 and 4 only

74. How many dots lie opposite to the face having three dots, when the given figure is folded to form a cube?



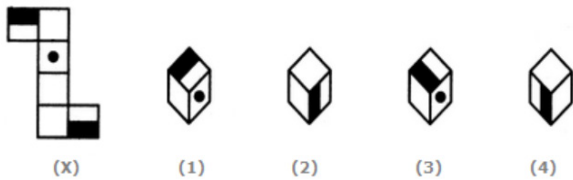
- (a) 2
- (b) 4
- (c) 5
- (d) 6

75. Choose the box that is similar to the box formed from the given sheet of paper (X).



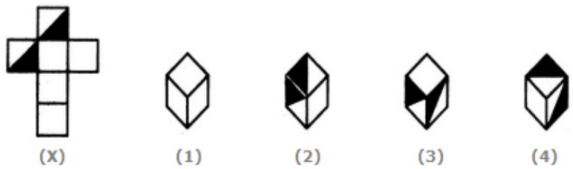
- (a) 1 and 3 only
- (b) 1 and 4 only
- (c) 2 and 4 only
- (d) 3 and 4 only

76. Choose the box that is similar to the box formed from the given sheet of paper (X).



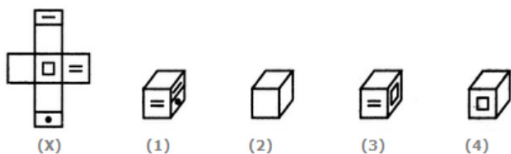
- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 2 and 4 only
- (d) 1, 2, 3 and 4

77. Choose the box that is similar to the box formed from the given sheet of paper (X).



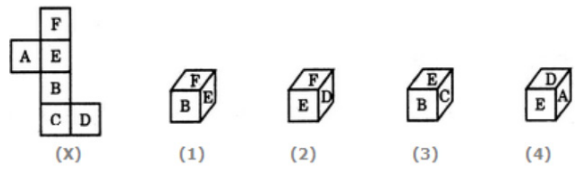
- (a) 1 and 4 only
- (b) 3 and 4 only
- (c) 1 and 2 only
- (d) 2 and 3 only

78. Choose the box that is similar to the box formed from the given sheet of paper (X).



- (a) 1 only
- (b) 1 and 3 only
- (c) 1, 3 and 4 only
- (d) 1, 2, 3 and 4

79. Choose the box that is similar to the box formed from the given sheet of paper (X).



- (a) 1 only
- (b) 2 only
- (c) 1 and 3 only
- (d) 1, 2, 3 and 4 only

80. Choose the box that is similar to the box formed from the given sheet of paper (X).



- (a) 1 only
- (b) 2 only
- (c) 3 only
- (d) 4 only

SPACE FOR ROUGH WORK





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