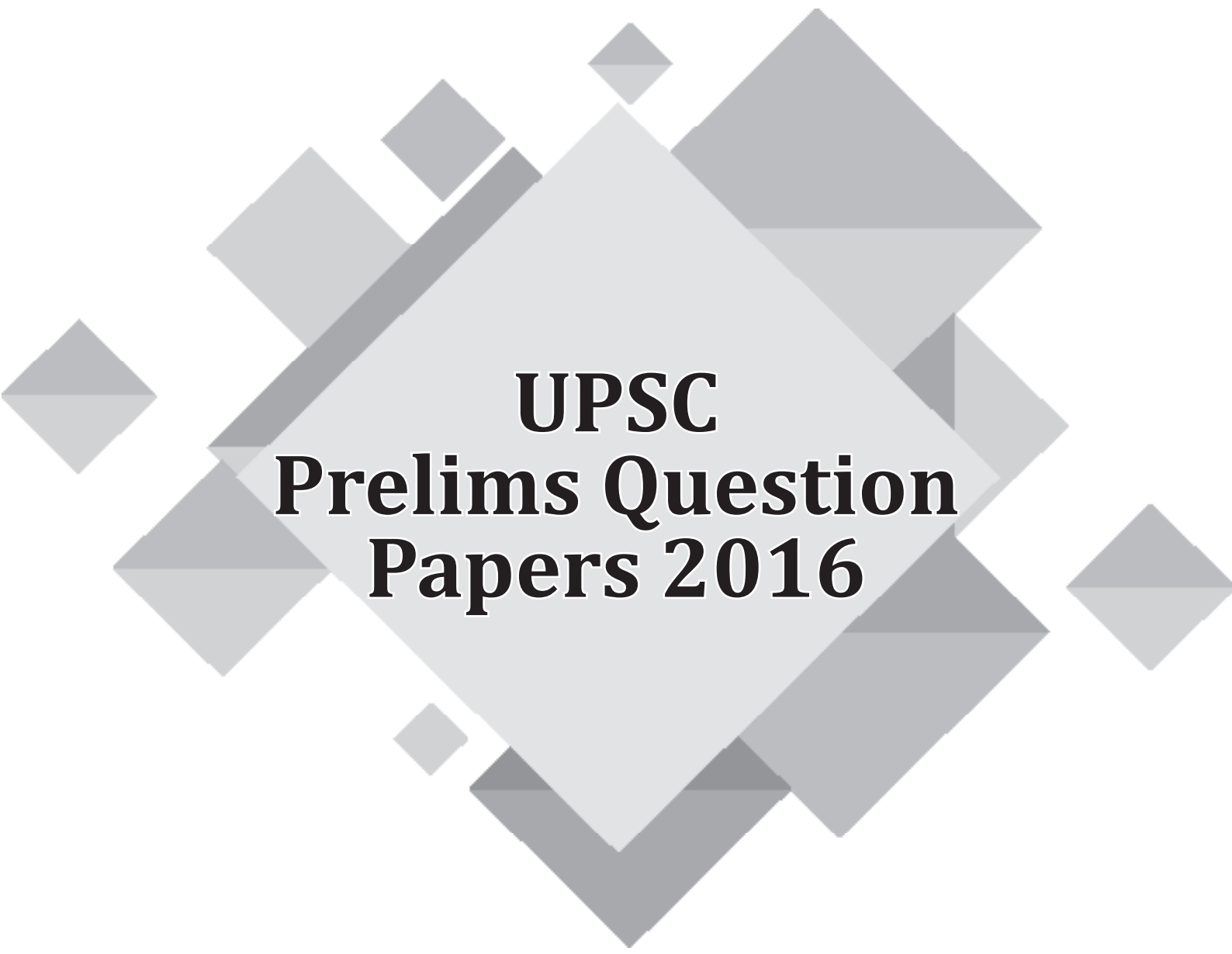


**UPSC, CSE  
(Prelims)**

**UPSC CSE (P)  
Question Papers  
(2016)**



# UPSC Prelims Question Papers 2016

1

# General Studies Paper-I

1. Which of the following statements is/are correct?

- (1) A Bill pending in the Lok Sabha lapses on its prorogation.  
 (2) A Bill pending in the Rajya Sabha, which has not been passed by the Lok Sabha, shall not lapse on dissolution of the Lok Sabha.

Select the correct answer using the code given below.

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

2. Which of the following is/are the indicator/indicators used by IFPRI to compute the Global Hunger Index Report?

- (1) Undernourishment    (2) Child stunting  
 (3) Child mortality

Select the correct answer using the code given below.

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

3. There has been a persistent deficit budget year after year. Which action/actions of the following can be taken by the Government to reduce the deficit?

- (1) Reducing revenue expenditure                      (2) Introducing new welfare schemes  
 (3) Rationalizing subsidies                      (4) Reducing import duty

Select the correct answer using the code given below.

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

4. The establishment of 'Payment Banks' is being allowed in India to promote financial inclusion. Which of the following statements is/are correct in this context?

- (1) Mobile telephone companies and supermarket chains that are owned and controlled by residents are eligible to be promoters of Payment Banks.  
 (2) Payment Banks can issue both credit cards and debit cards.  
 (3) Payment Banks cannot undertake lending activities.

Select the correct answer using the code given below.

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

5. With reference to 'LiFi' recently in the news, which of the following statements is/are correct?

- (1) It uses light as the medium for high-speed data transmission.  
 (2) It is a wireless technology and is several times faster than WiFi'.

Select the correct answer using the code given below.

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

6. **The term Intended Nationally Determined Contributions' is sometimes seen in the news in the context of**
- pledges made by the European countries to rehabilitate refugees from the war-affected Middle East.
  - plan of action outlined by the countries of the world to combat climate change.
  - capital contributed by the member countries in the establishment of Asian Infrastructure Investment Bank.
  - plan of action outlined by the countries of the world regarding Sustainable Development Goals
7. **Which one of the following is a purpose of 'UDAY', a scheme of the Government?**
- Providing technical and financial assistance to start-up entrepreneurs in the field of renewable sources of energy.
  - Providing electricity to every household in the country by 2018
  - Replacing the coal-based power plants with natural gas, nuclear, solar, wind and tidal power plants over a period of time.
  - Providing for financial turn around and revival of power distribution companies
8. **With reference to 'IFC Masala Bonds', sometimes seen in the news, which of the statements given below is/are correct?**
- The International Finance Corporation, which offers these bonds, is an arm of the World Bank.
  - They are the rupee-denominated bonds and are a source of debt financing for the public and private sector.
- Select the correct answer using the given below.**
- 1 only
  - 2 only
  - Both 1 and 2
  - Neither 1 nor 2
9. **Regarding the taxation system of Krishna Deva, the ruler of Vijayanagar, consider the following statements :**
- The tax rate on land was fixed depending on the quality of land.
  - Private owners of workshops paid an industries tax.
- Which of the statements given at is/are correct?**
- 1 only
  - 2 only
  - Both 1 and 2
  - Neither 1 nor 2
10. **Which one of the following books ancient India has the love story of the son of the founder of Sunga dynasty**
- Swapnavasavadatta
  - Malavikagnimitra
  - Meghadoota
  - Ratnavali
11. **In the context of which of the following do you sometimes find the terms 'amber box, blue box and green box' in the news?**
- WTO affairs
  - SAARC affairs
  - UNFCCC affairs
  - India-EU negotiations on FTA

12. **Which of the following is/are included in the capital budget of the Government of India?**
- (1) Expenditure on acquisition of assets like roads, buildings, machinery, etc.
  - (2) Loans received from foreign governments.
  - (3) Loans and advances granted to the States and Union Territories
- Select the correct answer using the code given below.**
- (a) 1 only                      (b) 2 and 3 only                      (c) 1 and 3 only                      (d) 1, 2 and 3
13. **What is/are the importance/importances of the 'United Nations Convention to Combat Desertification'?**
- (1) It aims to promote effective action through innovative national programmes and supportive international partnerships.
  - (2) It has a special/particular focus on South Asia and North Africa regions, and its Secretariat facilitates the allocation of major portion of financial resources to these regions.
  - (3) It is committed to bottom-up approach, encouraging the participation of local people in combating the Desertification.
- Select the correct answer using the code given below.**
- (a) 1 only                      (b) 2 and 3 only                      (c) 1 and 3 only                      (d) 1, 2 and 3
14. **Recently, which one of the following currencies has been proposed to be added to the basket of IMF's SDR?**
- (a) Rouble                      (b) Rand                      (c) Indian Rupee                      (d) Renminbi
15. **With reference to the International Monetary and Financial Committee (IMFC), consider the following statements :**
- (1) IMFC discusses matters of concern affecting the global economy, advises the International Monetary Fund (IMF) on the direction of its work.
  - (2) The World Bank participates as observer in IMFC's meetings.
- Which of the statements given above is/are correct?**
- (a) 1 only                      (b) 2 only                      (c) Both 1 and 2                      (d) Neither 1 nor 2
16. **'Rashtriya Garima Abhiyaan' is a national campaign to them**
- (a) rehabilitate the homeless and destitute persons and provide them with suitable sources of livelihood
  - (b) release the sex workers from their practice and provide them with alternative sources of livelihood,
  - (c) eradicate the practice of manual scavenging and rehabilitate the manual scavengers
  - (d) release the bonded labourers from their bondage and rehabilitate them
17. **With reference to the cultural history of medieval India, consider the following statements:**
- (1) Siddhas (Sittars) of Tamil region were monotheistic and condemned idolatry.
  - (2) Lingayats of Kannada region questioned the theory of rebirth and rejected the caste hierarchy.

**Which of the statements given above is/are correct?**

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

**18. Which of the following best describes the term 'import cover', sometimes seen in the news?**

- (a) It is the ratio of value of imports to the Gross Domestic Product of a country  
(b) It is the total value of imports of a country in a year  
(c) It is the ratio between the value of exports and that of imports between two countries.  
(d) It is the number of months of imports that could be paid for by a country's international reserves

**19. Consider the following pairs :**

Community sometimes      In the affairs of mentioned in the news

- (1) Kurd                      :      Bangladesh  
(2) Madhesi                      :      Nepal  
(3) Rohingya                      :      Myanmar

**Which of the pairs given above is/are correctly matched?**

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

**20. With reference to "Organization for the Prohibition of Chemical Weapons (OPCW). consider following statements :**

- (1) It is an organization of European Union in working relation with NATO and WHO.  
(2) It monitors chemical industry to prevent new weapons from emerging.  
(3) It provides assistance and protection to States (Parties) against chemical weapons threats.

**Which of the statements given above is/are correct?**

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

**21. With reference to 'Pradhan Mantri Fasal Bima Yojana', consider the following statements :**

- (1) Under this scheme, farmers will have to pay a uniform premium of two percent for any crop they cultivate in any season of the year.  
(2) This scheme covers post-harvest losses arising out of cyclones and unseasonal rains.

**Which of the statements given above is/are correct?**

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

**22. In which of the following regions of India are you most likely to come across the 'Great Indian Hornbill' in its natural habitat?**

- (a) Sand deserts of northwest India                      (b) Higher Himalayas of Jammu and Kashmir  
(c) Salt marshes of western Gujarat                      (d) Western Ghats

**23. Which of the following are the key features of 'National Ganga River Basin Authority (NGRBA) ?**

- (1) River basin is the unit of planning and management.  
(2) It spearheads the river conservation efforts at the national level.

- (3) One of the Chief Ministers of the States through which the Ganga flows becomes the Chairman of NGRBA on rotation basis.

**Select the correct answer using the code given below.**

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

**24. Why does the Government of India promote the use of 'Neem-coated Urea' in agriculture?**

- (a) Release of Neem oil in the soil increases nitrogen fixation by the soil microorganisms  
(b) Neem coating slows down the rate of dissolution of urea in the soil  
(c) Nitrous oxide, which is a greenhouse gas, is not at all released into atmosphere by crop fields  
(d) It is a combination of a weedicide and a fertilizer for particular crops

**25. Consider the following statements**

- (1) The Chief Secretary in a State is appointed by the Governor of that State.  
(2) The chief Secretary in a State has a fixed tenure

**Which of the statements given above is/are correct?**

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

**26. With reference to 'Stand Up India Scheme, which of the following statements is/are correct?**

- (1) Its purpose is to promote entrepreneurship among SC/ST and women entrepreneurs.  
(2) It provides for refinance through SIDBI.

**Select the correct answer using the code given below.**

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

**27. The FAO accords the status of 'Globally Important Agricultural Heritage System (GIAHS)' to traditional agricultural systems. What is the overall goal of this initiative?**

- (1) To provide modern technology, training in modern farming methods and financial support to local communities of identified GIAHS so as to greatly enhance their agricultural productivity.  
(2) To identify and safeguard eco-friendly traditional farm landscapes, agricultural biodiversity and knowledge systems of the local communities.  
(3) To provide Geographical Indication status to all the varieties of agricultural produce in such identified GIAHS

**Select the correct answer using the code given below.**

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

**28. Which of the following is/are tributary/ tributaries of Brahmaputra?**

- (1) Dibang (2) Kameng (3) Lohit

**Select the correct answer using the code given below.**

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

29. The term 'Core Banking Solutions' is sometimes seen in the news. Which of the following statements best describes/ describe this term?

- (1) It is a networking of a bank's branches which enables customers to operate their accounts from, any branch of the bank on its network regardless of where they open their accounts.
- (2) It is an effort to increase RBI's control over commercial banks through computerization.
- (3) It is a detailed procedure by which a bank with huge non-performing assets is taken over by another bank.

Select the correct answer using the code given below.

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

30. Consider the following pairs :

Terms sometimes		Their origin seen in the news
(1) Annex-I Countries	:	Cartagena Protocol
(2) Certified Emissions Reductions	:	Nagoya Protocol
(3) Clean Development Mechanism	:	Kyoto Protocol

Which of the pairs given above is/are correctly matched?

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

31. In the context of the developments in Bioinformatics, the term 'transcriptome', sometimes seen in the news, refers to

- (a) a range of enzymes used in genome
- (b) the full range of mRNA molecules expressed by an organism
- (c) the description of the mechanism of gene expression
- (d) a mechanism of genetic mutations Baking place in cells

32. 'Mission Indradhanush' launched by the Government of India pertains to

- (a) immunization of children and pregnant women
- (b) construction of smart cities across the country
- (c) India's own search for the Earth-like planets in outer space
- (d) New Educational Policy

33. Which of the following best describes/ describe the aim of 'Green India Mission' of the Government of India?

- (1) Incorporating environmental benefits and costs into the Union and State Budgets thereby implementing the 'green accounting'
- (2) Launching the second green revolution to enhance agricultural output so as to ensure food security to one and all in the future
- (3) Restoring and enhancing forest cover and responding to climate change by a combination of adaptation and mitigation measures

Select the correct answer using the code given below.

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



34. **With reference to pre-packaged items in India, it is mandatory to the manufacturer to put which of the following information on the main label, as per the Food Safety and Standards (Packaging and Labelling) Regulations, 2011?**

- (1) List of ingredients including additives
- (2) Nutrition information
- (3) Recommendations, if any, made by the medical profession about the possibility of any allergic reactions.
- (4) Vegetarian/non-vegetarian

**Select the correct answer using the code given below.**

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

35. **'Project Loon', sometimes seen in the news, is related to**

- (a) waste management technology      (b) wireless communication technology  
(c) solar power production technology      (d) water conservation technology

36. **Net metering' is sometimes seen in the news in the context of promoting the**

- (a) production and use of solar energy by the households/consumers  
(b) use of piped natural gas in the kitchens of households  
(c) installation of CNG kits in motor cars  
(d) installation of water meters in urban households

37. **India's ranking in the 'Ease of Doing Business Index' is sometimes seen in the news. Which of the following has declared that ranking?**

- (a) Organization for Economic cooperation and Development (OECD)  
(b) World Economic Forum  
(c) World Bank  
(d) World Trade Organization (WTO)

38. **Banjaras during the medieval period in Indian history were generally**

- (a) agriculturists      (b) warriors      (c) weavers      (d) traders

39. **Who of the following had first deciphered the edicts of Emperor Ashoka?**

- (a) Georg Buhler      (b) James Prinsep      (c) Max Muller      (d) William Jones

40. **With reference to the 'Gram Nyayalaya Act', which of the following statements is/are correct?**

- (1) As per the Act, Gram Nyayalayas can hear only civil cases and not criminal cases.  
(2) The Act allows local social activists as mediators/reconciliators.

**Select the correct answer using the code given below.**

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

41. **With reference to the 'Trans-Pacific Partnership', consider the following statements :**

- (1) It is an agreement among all the Pacific Rim countries except China and Russia.  
(2) It is a strategic alliance for the purpose of maritime security only

**Which of the statements given above is /are correct?**

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

**42. Consider the following statements : —**

**The India-Africa Summit**

- (1) held in 2015 was the third such Summit  
(2) was actually initiated by Jawaharlal Nehru in 1951

**Which of the statements given above is/are correct?**

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

**43. What is/are the purpose/purposes of the 'Marginal Cost of Funds based Lending Rate (MCLR) announced by RBI?**

- (1) These guidelines help improve the transparency in the methodology followed by banks for determining the interest rates on advances.  
(2) These guidelines help ensure availability of bank credit at interest rates which are fair to the borrowers as well as the banks.

**Select the correct answer using the code given below.**

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

**44. What is/ are unique about "Kharai camel' a breed found in India?**

- (1) It is capable of swimming up to three kilometers in seawater.  
(2) It survives by grazing on mangroves.  
(3) It lives in the wild and cannot be domesticated.

**Select the correct answer using the code given below.**

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

**45. Recently, our scientists have discovered a new and distinct species of banana plant which attains a height of about 11 metres and has orange coloured fruit pulp. In which part of India has it been discovered?**

- (a) Andaman Islands                      (b) Anaimalai Forests  
(c) Maikala Hills                      (d) Tropical rain forests of northeast

**46. Which one of the following is the best description of 'INS Astradharini', that was in the news recently?**

- (a) Amphibious warfare ship                      (b) Nuclear-powered submarine  
(c) Torpedo launch and recovery vessel                      (d) Nuclear-powered aircraft carrier

**47. What is 'Greased Lightning (GL-10)', recently in the news?**

- (a) Electric plane tested by NASA  
(b) Solar-powered two-seater aircraft designed by Japan  
(c) Space observatory launched China  
(d) Reusable rocket designed by ISRO

48. **With reference to 'Initiative for Nutritional Security through Intensive Millets Promotion', which of the following statements is/are correct?**

- (1) This initiative aims to demonstrate the improved production and post-harvest technologies, and to demonstrate value addition techniques, in an integrated manner, with cluster approach.
- (2) Poor, small, marginal and tribal farmers have larger stake in this scheme.
- (3) An important objective of the scheme is to encourage farmers of commercial crops to shift to millet cultivation by offering them free kits of critical inputs of nutrients and microirrigation equipment.

**Select the correct answer using the code given below.**

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

49. **The 'Swadeshi' and 'Boycott were adopted as methods of struggle for the first time during the**

- (a) agitation against the Partition of Bengal      (b) Home Rule Movement  
(c) Non-Cooperation Movement                      (d) visit of the Simon Commission to India

50. **With reference to the religious history of India, consider the following statements :**

- (1) The concept of Bodhisattva central to Hinayana sect of Buddhism.
- (2) Bodhisattva is a compassionate one on his way to enlightenment.
- (3) Bodhisattva delays achieving his own salvation to help all sentient beings on their path to it.

**Which of the statements given above is/are correct?**

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

51. **Doctors Without Borders (Medecins Sans Frontieres)', often in the news, is**

- (a) a division of World Health Organization.  
(b) a non-governmental international organization.  
(c) an, inter-governmental agency sponsored by European Union.  
(d) a specialized agency of the United Nations

52. **With reference to an initiative called The Economics, of Ecosystems and Biodiversity (TEEB)', which of the following statements is/are correct?**

- (1) It is an initiative hosted by UNEP, IMF and World Economic Forum,
- (2) It is a global initiative that focuses on drawing attention to the economic benefits of biodiversity.
- (3) It presents an approach that can help decision-makers recognize, demonstrate and capture the value of ecosystems and biodiversity.

**Select the correct answer using the code given below.**

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

53. With reference to 'Red Sanders', sometimes seen in the "news, consider the following statements :

- (1) It is a tree species found in a part of South India.
- (2) It is one of the most important trees in the tropical rain forest areas of South India.

Which of the statements given above is/are correct?

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

54. Which of the following statements is/a correct?

Proper design and effective implementation of UN-REDD+ Programme can significantly contribute to

- (1) protection of biodiversity
- (2) resilience of forest ecosystems
- (3) poverty reduction

Select the correct answer using the code given below.

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

55. What is 'Greenhouse Gas Protocol'?

- (a) It is an international accounting tool for government and business leaders to understand, quantify and manage greenhouse gas emissions
- (b) It is an initiative of the United Nations to offer financial incentives to developing countries to reduce greenhouse gas emissions and adopt eco-friendly technologies.
- (c) It is an Inter-governmental agreement ratified by all the member countries of the United Nations to reduce greenhouse gas emissions to specified levels by the year 2022.
- (d) It is one of the multilateral REDD + initiatives hosted by the World Bank.

56. With reference to 'Financial Stability and Development Council', consider the following statements :

- (1) It is an organ of NITI Aayog.
- (2) It is headed by the Union Finance Minister.
- (3) It monitors macroprudential supervision of the economy.

Which of the statements given above is/are correct?

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

57. With reference to 'Agenda 21', sometimes seen in the news, consider the following statements :

- (1) It is a global action plan for sustainable development.
- (2) It originated in the World Summit on Sustainable Development held in Johannesburg in 2002.

Which of the statements given above is/are correct?

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

58. Satya Shodhak Samaj organized

- (a) a movement for upliftment of tribals in Bihar
- (b) a temple-entry movement in Gujarat

- (c) an anti-caste movement in Maharashtra
- (d) a peasant movement in Punjab

59. Which of the following statements is/are correct?

Viruses can infect

- (1) bacteria
- (2) fungi
- (3) plants

Select the correct answer using the code given below.

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

60. The term 'Base Erosion and Profit Shifting' is sometimes seen in the news in the context of

- (a) mining operation by multinational companies in resource-rich backward areas
- (b) curbing of the tax evasion multinational companies
- (c) exploitation of genetic resources of a country by multinational companies.
- (d) lack of consideration environmental costs in planning and implementation developmental projects

61. Recently, India's first 'National Investment and Manufacturing Zone' i was proposed to be set up in

- (a) Andhra Pradesh
- (b) Gujarat
- (c) Maharashtra
- (d) Uttar Pradesh

62. What is/are the purpose/purposes of 'District Mineral Foundations' in India?

- (1) Promoting mineral exploration activities in mineral-rich districts.
- (2) Protecting the interests of persons affected by mining operations.
- (3) Authorizing State Government to issue licences for mineral exploration

Select the correct answer using the given below.

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

63. SWAYAM', an initiative of the Government of India, aims at

- (a) promoting the Self Help Groups in rural areas
- (b) providing financial and technical assistance to young start-up entrepreneurs
- (c) promoting the education and health of adolescent girls
- (d) providing affordable and quality education to the citizens for free

64. The Montague-Chelmsford Proposals were related to

- (a) social reforms
- (b) educational reforms
- (c) reforms in police administration
- (d) constitutional reforms

65. What is/are common to the two historical places known as Ajanta and Mahabalipuram?

- (1) Both were built in the same period.
- (2) Both belong to the same religious denomination.
- (3) Both have rock-cut monuments.

Select the correct answer using the code given below.

- (a) 1 and 2 only

- (b) 3 only
- (c) 1 and 3 only
- (d) None of the statements given above is correct

66. **With reference to Bitcoins', sometimes seen in the news, which of the following statements is/are correct?**

- (1) Bitcoins are tracked by the Central Banks of the countries.
- (2) Anyone with a Bitcoin address can send and receive Bitcoins from anyone else with a Bitcoin address.
- (3) Online payments can be sent without either side knowing the identity of the other.

**Select the correct answer using the given below.**

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

67. **Consider the following statements**

- (1) New Development Bank has set up by APEC.
- (2) The headquarters of Development Bank is in Shanghai

**Which of the statements given above is/are correct?**

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

68. **'Gadgil Committee Report' 'Kasturirangan Committee Report sometimes seen in the news, related to**

- (a) constitutional reforms      (b) Ganga Action Plan
- (c) linking of rivers      (d) protection of Western Ghats

69. **Consider the following :**

- (1) Calcutta Unitarian Committee      (2) Tabernacle of New Dispensation
- (3) Indian Reform Association

**Keshab Chandra Sen is associated with the establishment of which of the above?**

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

70. **Which of the following is not a member of 'Gulf Cooperation Council'?**

- (a) Iran      (b) Saudi Arabia      (c) Oman      (d) Kuwait

71. **What is/are the purpose/purposes of Government's 'Sovereign Gold Bond Scheme' and 'Gold Monetization Scheme'?**

- (1) To bring the idle gold lying with Indian households into the economy
- (2) To promote FDI in the gold and jewellery sector
- (3) To reduce India's dependence on gold imports

**Select the correct answer using the code given below.**

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

72. **Belt and Road Initiative ' is sometimes mentioned in the news in the context of the affairs of**

- (a) African Union      (b) Brazil      (c) European Union      (d) China

73. **Pradhan Mantri Mudra Yojana is aimed at**  
 (a) bringing the small entrepreneurs into formal financial system  
 (b) providing loans to poor farmers cultivating particular crops  
 (c) providing pensions to old destitute persons  
 (d) funding the voluntary organic involved in the promotion skill development and employment generation
74. **In which of the following regions of India are shale gas resources found?**  
 (1) Cambay Basin (2) Cauvery Basin (3) Krishna-Godavari Basin  
**Select the correct answer using the code given below.**  
 (a) 1 and 2 only (b) 3 only (c) 2 and 3 only (d) 1, 2 and 3
75. **'Global Financial Stability Report' is prepared by the**  
 (a) European Central Bank  
 (b) International Monetary Fund  
 (c) International Bank for Reconstruction and Development  
 (d) Organization for Economic Cooperation and Development
76. **Regarding 'Atal Pension Yojana', which of the following statements is/are correct?**  
 (1) It is a minimum guaranteed pension scheme mainly targeted at unorganized sector workers.  
 (2) Only one member of a family can join the scheme.  
 (3) Same amount of pension is guaranteed for the spouse for life after subscriber's death.  
**Select the correct answer using the code given below.**  
 (a) 1 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3
77. **The term 'Regional Comprehensive Economic Partnership' often appears in the news in the context of the affairs of a group of countries known as**  
 (a) G20 (b) ASEAN (c) SCO (d) SAARC
78. **On which of the following can you find the Bureau of Energy Efficiency Star Label?**  
 (1) Ceiling fans (2) Electric geysers (3) Tubular fluorescent lamps  
**Select the correct answer using the code given/below.**  
 (a) 1 and 2 only (b) 3 only (c) 2 and 3 only (d) 1, 2 and 3
79. **India is an important member of the 'International Thermonuclear Experimental Reactor'. If this experiment succeeds, What is immediate advantage for India?**  
 (a) It can use thorium in place uranium for power generation  
 (b) It can attain a global role in satellite navigation  
 (c) It can drastically improve the efficiency of its fission reactors in power generation.  
 (d) It can build fusion reactors power generation
80. **In the context of the history of India, consider the following pairs**
- | Term         | Description   |
|--------------|---|
| (1) Eripatti | Land, revenue from which was set apart for the maintenance of the |

village tank

- (2) Taniyurs Villages donated to a single Brahmin or a group Brahmins  
(3) Ghatikas Colleges generally attached to the temples

**Which of the pairs given above is/ correctly matched?**

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

**81. Consider the following statements :**

- (1) The International Solar Alliance was launched at the United Nations Climate Change Conference in 2015.  
(2) The Alliance includes all the member countries of the United Nations.

**Which of the statements given above is/are correct?**

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

**82. “European Stability Mechanism”, sometimes seen in the news, is an**

- (a) agency created by EU to deal with the impact of millions of refugees arriving from Middle East.  
(b) agency of EU that provides financial assistance to eurozone countries.  
(c) agency of EU to deal with all the bilateral and multilateral agreements on trade  
(d) agency of EU to deal with the conflicts arising among the member countries.

**83. Which of the following is/are the advantage/advantages of practising drip irrigation?**

- (1) Reduction in weed (2) Reduction in soil salinity  
(3) Reduction in soil erosion

**Select the correct answer using the code given below.**

- (a) 1 and 2 only  
(b) 3 only  
(c) 1 and 3 only  
(d) None of the above is an advantage of practising drip irrigation

**84. Regarding 'Digi Locker', sometimes in the news, which of the following statements is/are correct?**

- (1) It is a digital locker system offered by the Government under Digital India Programme.  
(2) It allows you to access your e-documents irrespective of your physical location.

**Select the correct answer using the given below.**

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

**85. Recently, linking of which of the following rivers was undertaken?**

- (a) Cauvery and Tungabhadra (b) Godavari and Krishna  
(c) Mahanadi and Sone (d) Narmada and Tapti

**86. In the cities of our country, which among the following atmospheric gases are normally considered in calculating the value of Air Quality Index?**

- (1) Carbon dioxide (2) Carbon monoxide  
(3) Nitrogen dioxide (4) Sulfur dioxide



(5) Methane

Select the correct answer using the code given below.

(a) 1, 2 and 3 only (b) 2, 3 and 4 only (c) 1, 4 and 5 only (d) 1, 2, 3, 4 and 5

87. With reference to 'Astrosat,' the astronomical observatory launched by India, which of the following statements is/ are correct?

- (1) Other than USA and Russia, India is the only country to have launched a similar observatory into space.
- (2) Astrosat is a 2000 kg satellite placed in an orbit at 1650 km above the surface of the Earth.

Select the correct answer using the code given below.

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

88. With reference to the economic history of medieval India, the term 'Araghatta' refers to

- (a) bonded labour
- (b) land grants made to military officers
- (c) waterwheel used in the irrigation of land
- (d) wasteland converted to cultivated land

89. With reference to the cultural history of India, the memorizing of chronicles, dynastic histories and epic tales was profession of who of the following?

(a) Shramana (b) Parivraajaka (c) Agrahaarika (d) Maagadha

90. Recently, for the first time in our country, which of the following States has declared a particular butterfly as 'State Butterfly'?

- (a) Arunachal Pradesh (b) Himachal Pradesh
- (c) Karnataka (d) Maharashtra

91. Consider the following statements : The Mangalyaan launched by ISRO

- (1) is also called the Mars Orbiter Mission
- (2) made India the second country to have a spacecraft orbit the Mars after USA
- (3) made India the only country to be successful in making its spacecraft orbit the Mars in its very first attempt.

Which of the statements given above is/are correct?

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

92. What was the main reason for the split in the Indian National Congress at Surat in 1907?

- (a) Introduction of communalism into Indian politics by Lord Minto
- (b) Extremists' lack of faith in the capacity of the moderates to negotiate with the British Government
- (c) Foundation of Muslim League
- (d) Aurobindo Ghosh's inability to be elected as the President of the Indian National Congress

93. **The plan of Sir Stafford Cripps envisaged that after the Second World War**
- (a) India should be granted complete independence
  - (b) India should be partitioned into two before granting independence
  - (c) India should be made a republic with the condition that she will join the Commonwealth.
  - (d) India should be given Dominion status

94. **Consider the following pairs**

Famous place	Region
(1) Bodhgaya	: Baghelkhand
(2) Khajuraho	: Bundelkhand
(3) Shirdi	: Vidarbha
(4) Nasik (Nashik)	: Malwa
(5) Tirupati	: Rayalaseema

**Which of the statements given above is /are correct?**

- (a) 1, 2 and 4      (b) 2, 3, 4 and 5      (c) 2 and 5 only      (d) 1, 3, 4 and 5
95. **The Parliament of India acquires the power to legislate on any item in the State List in the national interest if a resolution to that effect is passed by the**
- (a) Lok Sabha by a simple majority of its total membership
  - (b) Lok Sabha by a majority of not less than two thirds of its total membership
  - (c) Rajya Sabha by a simple majority of its total membership
  - (d) Rajya Sabha by a majority of not less than two-thirds of its members present and voting.
96. **Recently, which of the following States has explored the possibility of constructing an artificial inland port to be connected to sea by a long navigational channel?**
- (a) Andhra Pradesh
  - (b) Chhattisgarh
  - (c) Karnataka
  - (d) Rajasthan
97. **With reference to the Agreement at the UNFCCC Meeting in Paris in 2015, which of the following statements is/are correct?**
- (1) The Agreement was signed by all the member countries of the UN and it will go into effect in 2017.
  - (2) The Agreement aims to limit the greenhouse gas emissions so that the rise in average global temperature by the end of this century does not exceed 2 °C or even 1.5 °C above pre-industrial levels.
  - (3) Developed countries acknowledged their historical responsibility in global warming and committed to donate \$ 1000 billion a year from 2020 to help developing countries to cope with climate change.

**Select the correct answer using the code given below.**

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

98. Consider the following statements :

- (1) The Sustainable Development Goals were first proposed in 1972 by a global think tank called the 'Club of Rome'.
- (2) The Sustainable Development Goals have to be achieved by 2030.

**Which of the statements given above is/are correct?**

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

99. A recent movie titled **The Man Who Knew Infinity** is based on the biography of

- (a) S. Ramanujan                      (b) S. Chandrasekhar  
(c) S. N. Bose                      (d) C. V. Raman

100. Consider the following statements :

- (1) The minimum age prescribed for any person to be a member of Panchayat is 25 years.
- (2) A Panchayat reconstituted after premature dissolution continues only for the remainder period.

**Which of the statements given above is/are correct?**

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

**Directions for the following 6 six ) items:**

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

**PASSAGE-I**

Accountability, or the lack of it, in governance generally, and civil services, in particular, is a major factor underlying the deficiencies in governance and public administration. Designing an effective framework for accountability has been a key element of the reform agenda. A fundamental issue is whether civil services should be accountable to the political executive of the day or to society at large. In other words, how should internal and external accountability be reconciled ? Internal accountability is sought to be achieved by internal performance monitoring, official supervision by bodies like the Central Vigilance Commission and Comptroller and Auditor General, and judicial review of executive decisions. Articles 311 and 312 of the Indian Constitution provide job security and safeguards to the civil services, especially the All India Services. The framers of the Constitution had envisaged that provision of these safeguards would result in a civil service that is not totally subservient to the political executive but will have the strength to function in larger public interest. The need to balance internal and external accountability is thus built into the Constitution. The issue is where to draw the line. Over the years, the emphasis seems to have tilted in favour of greater internal accountability of the civil services to the political leaders of the day who in turn are expected to be externally accountable to the society at large through the election process. This system for seeking accountability to society has not worked out, and has led to several adverse consequences for governance.

Some special measures can be considered for improving accountability in civil services. Provisions of articles 311 and 312 should be reviewed and laws and regulations framed to ensure external accountability of civil services. The proposed Civil Services Bill seeks to address some of these requirements. The respective roles of professional civil services and the political executive should be defined so that professional managerial functions and management of civil services are depoliticized. For this purpose, effective statutory civil service boards should be created at the centre and in the states. Decentralization and devolution of authority to bring government and decision making closer to the people also helps to enhance accountability.

**1. According to the passage, which of the following factor/factors led to the adverse consequences for governance/public administration ?**

(1) Inability of civil services to strike a balance between internal and external accountabilities

- (2) Lack of sufficient professional training to the officers of All India Services
- (3) Lack of proper service benefits in civil services
- (4) Lack of Constitutional provisions to define the respective roles of professional civil services vis-a-vis political executive in this context

**Select the correct answer using the code given below :**

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

**2. With reference to the passage, the following assumptions have been made :**

- (1) Political executive is an obstacle to the accountability of the civil services to the society
- (2) In the present framework of Indian polity, the political executive is no longer accountable to the society

**Which of these assumptions is/are valid ?**

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

**3. Which one of the following is the essential message implied by this passage ?**

- (a) Civil services are not accountable to the society they are serving
- (b) Educated and enlightened persons are not taking up political leadership
- (c) The framers of the Constitution did not envisage the problems being encountered by the civil services
- (d) There is a need and scope for reforms to improve the accountability of civil services

**4. According to the passage, which one of the following is not a means of enhancing internal accountability of civil services ?**

- (a) Better job security and safeguards
- (b) Supervision by Central Vigilance Commission
- (c) Judicial review of executive decisions
- (d) Seeking accountability through enhanced participation by people in decision making process

## PASSAGE-II

In general, religious traditions stress our duty to god, or to some universal ethical principle. Our duties to one another derive from these. The religious concept of rights is primarily derived from our relationship to this divinity or principle and the implication it has on our other relationships, This correspondence between rights and duties is critical to any further understanding of justice. But, for justice to be practiced; virtue, rights and duties cannot remain formal abstractions. They must be grounded in a community (common unity) bound together by a sense of common union (communion). Even as a personal virtue, this solidarity is essential to the practice and understanding of justice.

**5. With reference to the passage, the following assumptions have been made :**

- (1) Human relationships are derived from their religious traditions
- (2) Human beings can be duty bound only if they believe in god
- (3) Religious traditions are essential to practice and understand justice

**Which of these assumption(s) is/are valid ?**

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

6. **Which one of the following is the crux of this passage ?**

- (a) Our duties to one another derive from our religious traditions  
(b) Having relationship to the divine principle is a great virtue  
(c) Balance between rights and duties is crucial to the delivery of justice in a society  
(d) Religious concept of rights is primarily derived from our relationship to god

7. **A ate grapes and pineapple; B ate grapes and oranges; C ate oranges, pineapple and apple; D ate grapes, apple and pineapple. After taking fruits, B and C fell sick. In the light of the above facts, it can be said that the cause of sickness was :**

- (a) Apple                      (b) Pineapple                      (c) Grapes                      (d) Oranges

8. **Consider the following statements :**

- (1) The rate of population growth is increasing in the country  
(2) The death rate is declining faster in the country compared to birth rate  
(3) The birth rate is declining faster in the country compared to death rate  
(4) Rural-urban migration is taking place regularly in the country

**Which one of the following conclusions may be true in the light of the above facts ?**

- (a) The rate of population growth is increasing due to rural-urban migration  
(b) The rate of population growth is increasing due to decline in death rate only  
(c) The rate of population growth is increasing due to increase in birth rate only  
(d) The rate of population growth is increasing due to faster decline in death rate than in birth rate

9. **A person X was driving in a place where all roads ran either north-south or east west, forming a grid. Roads are at a distance of 1 km from each other in a parallel. He started at the intersection of two roads, drove 3 km north. (3) km west and 4 km south. Which further route could bring him back to his starting point, if the same route is not repeated?**

- (a) 3 km east, then 2 km south                      (b) 3 km east, then 1 km north  
(c) 1 km north, then 2 km west                      (d) 3 km south, then 1 km north

10. **Consider the following statement :**

**"We shall go either for a picnic or for trekking. Which of the following, if true, would falsify this claim ?**

- (a) We go for a picnic but not for trekking  
(b) Activities such as picnic and trekking are encouraged by the health authorities  
(c) We go for trekking and not for picnic  
(d) We do not go either for picnic or for trekking

11. **There were 50 faculty members comprising 30 males and the rest females. No male faculty member knew music, but many of the female faculty members did. The Head of the institution invited six faculty members to a tea party by draw of lots. At the party it was discovered that no member knew music. The conclusion is that:**

- (a) the party comprised male faculty members only  
 (b) the party comprised only those female faculty members who could not give renderings in music  
 (c) the party comprised both male and female faculty members  
 (d) nothing can be said about the gender composition of the party
12. **Five people A, B, C, D and E are seated about a round table. Every chair is spaced equidistant from adjacent chairs. (i) C is seated next to A (ii) A is seated two seats from D (iii) B is not seated next to A On the basis of above information, which of the following must be true ? (1) D is seated next to B (2) E is seated next to A (3) D and C are separated by two seats Select the correct answer using the code given below:**
- (a) 1 only (b) 1 and 2 only  
 (c) 3 only (d) Neither 1 nor 2 nor 3
13. **There are five hobby clubs in a college - photography, yachting, chess, electronics and gardening. The gardening group meets every second day, the electronics group meets every third day, the chess group meets every fourth day, the yachting group meets every fifth day and the photography group meets every sixth day. How many times do all the five groups meet on the same day within 180 days?**
- (a) 5 (b) 18 (c) 10 (d) 3
14. **There are some nectar-filled flowers on a tree and some bees are hovering on it. If one bee lands on each flower, one bee will be left out. If two bees land on each flower, one flower will be left out. The number of flowers and bees respectively are :**
- (a) 2 and 4 (b) 3 and 2 (c) 3 and 4 (d) 4 and 3

**Directions for the following 5 (five) items :**

**Consider the following information and answer the five items that follow.**

**There are five persons in a group — P, Q, R, S and T. The group has one doctor, one lawyer and one artist. P and S are unmarried students. T is a man married to one of the group members. Q is the brother of P and is neither doctor nor artist. R is not doctor.**

15. **Who is the doctor?**  
 (a) T (b) P (c) Q (d) R
16. **Who is the artist ?**  
 (a) P (b) Q (c) R (d) T
17. **Who is the spouse of R?**  
 (a) P (b) T (c) Q (d) S
18. **Who is the lawyer ?**  
 (a) P (b) Q (c) R (d) S
19. **Who of the following is definitely a man ?**

- (a) P                      (b) S                      (c) Q                      (d) None of the above
20. **There is an order of 19000 quantity of a particular product from a customer. The firm produces 1000 quantity of that product per day out of which 5% are unfit for sale. In how many days will the order be completed ?**
- (a) 18                      (b) 19                      (c) 20                      (d) 22

**Directions for the following 5 (five) items :**

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

### PASSAGE-I

Biomass as fuel for power, heat, and transport has the highest mitigation potential of all renewable sources. It comes from agriculture and forest residues as well as from energy crops. The biggest challenge in using biomass residues is a long-term reliable supply delivered to the power plant at reasonable costs; the key problems are logistical constraints and the costs of fuel collection. Energy crops, if not managed properly, compete with food production and may have undesirable impacts on food prices. Biomass production is also sensitive to the physical impacts of a changing climate.

Projections of the future role of biomass are probably overestimated, given the limits to the sustainable biomass supply, unless breakthrough technologies substantially increase productivity. Climate-energy models project that biomass use could increase nearly four-fold to around 150 - 200 exajoules, almost a quarter of world primary energy in 2050. However the maximum sustainable technical potential of biomass resources (both residues and energy crops) without disruption of food and forest resources ranges from 80 - 170 exajoules a year by 2050, and only part of this is realistically and economically feasible. In addition, some climate models rely on biomass-based carbon capture and storage, an unproven technology, to achieve negative emissions and to buy some time during the first half of the century.

Some liquid biofuels such as com-based ethanol, mainly for transport, may aggravate rather than ameliorate carbon emissions on a life-cycle basis. Second generation biofuels, based on ligno-cellulosic feedstocks - such as straw, bagasse, grass and wood - hold the promise of sustainable production that is high-yielding and emit low levels of greenhouse gases, but these are still in the RandD stage.

21. **What is/are the present constraint/constraints in using biomass as fuel for power generation ?**

- (1) Lack of sustainable supply of biomass
- (2) Biomass production competes with food production
- (3) Bio-energy may not always be low carbon on a life-cycle basis

**Select the correct answer using the code given below:**

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

22. **Which of the following can lead to food security problem?**

- (1) Using agricultural and forest residues as feedstock for power generation



- (2) Using biomass for carbon capture and storage
- (3) Promoting the cultivation of energy crops

**Select the correct answer using the code given below:**

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

**23. In the context of using biomass, which of the following is/are the characteristic/ characteristics of the sustainable production of biofuel ?**

- (1) Biomass as a fuel for power generation could meet all the primary energy requirements of the world by 2050
- (2) Biomass as a fuel for power generation does not necessarily disrupt food and forest resources
- (3) Biomass as a fuel for power generation could help in achieving negative emissions, given certain nascent technologies

**Select the correct answer using the code given below :**

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

**24. With reference to the passage, following assumptions have been made :**

- (1) Some climate-energy models suggest that the use of biomass as a fuel for power generation helps in mitigating greenhouse gas emissions
- (2) It is not possible to use biomass as a fuel for power generation without disrupting food and forest resources

**Which of these assumptions is/are valid ?**

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

### PASSAGE-II

We are witnessing a dangerous dwindling of biodiversity in our food supply. The green revolution is a mixed blessing. Over time farmers have come to rely heavily on broadly adapted, high yield crops to the exclusion of varieties adapted to the local conditions. Monocropping vast fields with the same genetically uniform seeds helps boost yield and meet immediate hunger needs. Yet high-yield varieties are also genetically weaker crops that require expensive chemical fertilizers and toxic pesticides. In our focus on increasing the amount of food we produce today, we have accidentally put ourselves at risk for food shortages in future.

**25. Which among the following is the most logical and critical inference that can be made from the above passage ?**

- (a) In our agricultural practices, we have become heavily dependent on expensive chemical fertilizers and toxic pesticides only due to green revolution
- (b) Monocropping vast fields with high-yield varieties is possible due to green revolution
- (c) Monocropping with high-yield varieties is the only way to ensure food security to millions
- (d) Green revolution can pose a threat to biodiversity in food supply and food security in the long run

26. A class starts at 11:00 am and lasts till 2:27 pm. Four periods of equal duration are held during this interval. After every period, a rest of 5 minutes is given to the students. The exact duration of each period is:  
(a) 48 minutes (b) 50 minutes (c) 51 minutes (d) 53 minutes
27. Four friends A, B, C and D need to cross a bridge. A maximum of two persons can cross it at a time. It is night and they just have one lamp. Persons that cross the bridge must carry the lamp to find the way. A pair must walk together at the speed of slower person. After crossing the bridge, the person having faster speed in the pair will return with the lamp each time to accompany another person in the group. Finally, the lamp has to be returned at the original place and the person who returns the lamp has to cross the bridge again without lamp. To cross the bridge, the time taken by them is as follows: A: 1 minute, B: 2 minutes, C: 7 minutes and D: 10 minutes. What is the total minimum time required by all the friends to cross the bridge ?  
(a) 23 minutes (b) 22 minutes (c) 21 minutes (d) 20 minutes
28. 30 g of sugar was mixed in 180 ml water in a vessel A, 40 g of sugar was mixed in 280 ml of water in vessel B and 20 g of sugar was mixed in 100 ml of water in vessel C. The solution in vessel B is :  
(a) sweeter than that in C (b) sweeter than that in A  
(c) as sweet as that in C (d) less sweet than that in C
29. In aid of charity, every student in a class contributes as many rupees as the number of students in that class. With the additional contribution of Rs. 2 by one student only, the total collection is Rs. 44(3) Then how many students are there in the class ?  
(a) 12 (b) 21 (c) 43 (d) 45
30. Anita's mathematics test had 70 problems carrying equal marks i.e., 10 arithmetic, 30 algebra and 30 geometry. Although she answered 70% of the arithmetic, 40% of the algebra and 60% of the geometry problems correctly, she did not pass the test because she got less than 60% marks. The number of more questions she would have to answer correctly to earn a 60% passing marks is :  
(a) 1 (b) 5 (c) 7 (d) 9
31. In a class, there are 18 very tall boys. If these constitute three-fourths of the boys and the total number of boys is two-thirds of the total number of students in the class, what is the number of girls in the class ?  
(a) 6 (b) 12 (c) 18 (d) 21
32. Consider the following statements :
- (1) Either A and B are of the same age Or A is older than B
  - (2) Either C and D are of the same age or D is older than C
  - (3) B is older than C

Which of the following conclusions can be drawn from the above statements ?

- (a) A is older than B (b) B and D are of the same age  
(c) D is older than C (d) A is older than C

33. The monthly average salary paid to all the employees of a company was Rs. 5000. The monthly average salary paid to male and female employees was Rs. 5200 and Rs. 4200 respectively. Then the percentage of males employed in the company is :

- (a) 75% (b) 80% (c) 85% (d) 90%

Direction for the following 3 (three) items :

Consider the given information and answer the three items that follow.

Six boxes A, B, C, D, E and F have been painted with six different colours viz., violet, indigo, blue, green, yellow and orange and arranged from left to right (not necessarily either kept or painted with the colours in the same order). Each box contains a ball of any one of the following six games: cricket, hockey, tennis, golf, football and volleyball (not necessarily in the same order). The golf ball is in violet box and is not in the box D. The box A which contains tennis ball is orange in colour and is at the extreme right. The hockey ball is neither in box D nor in box E. The box C having cricket ball is painted green. The hockey ball is neither in the box painted blue nor in the box painted yellow. The box C is fifth from right and next to box B. The box B contains volleyball. The box containing the hockey ball is between the boxes containing golf ball and volleyball.

34. Which one of the following boxes contains the golf ball ?

- (a) F (b) E (c) D (d) Blue

35. Which of the following statements is/are correct?

- (a) D is painted yellow (b) F is painted indigo  
(c) B is painted blue (d) All of the above

36. The football is in the box of which colour?

- (a) Yellow  
(b) Indigo  
(c) Cannot be determined as data are inadequate  
(d) Blue

37. Two numbers X and Y are respectively 20% and 28% less than a third number Z. By what percentage is the number Y less than the number X ?

- (a) 12% (b) 10% (c) 9% (d) 8%

38. A daily train is to be introduced between station A and station B starting from each end at 6 AM and the journey is to be completed in 42 hours. What is the number of trains needed in order to maintain the shuttle service ?

- (a) 2 (b) 3 (c) 4 (d) 7

39. A piece of tin is in the form of a rectangle having length 12 cm and width 8 cm. This is used to construct a closed cube. The side of the cube is :
- (a) 2 cm                      (b) 3 cm                      (c) 4 cm                      (d) 6 cm
40. In a question paper there are five questions to be attempted and answer to each question has two choices - True (T) or False (F). It is given that no two candidates have given the answers to the five questions in an identical sequence. For this to happen the maximum number of candidates is :
- (a) 10                      (b) 18                      (c) 26                      (d) 32

**Directions for the following 8 (eight) items :**

**Read the following eight passages and answer the item that follows each passage. Your answers to these items should be based on the passages only.**

### **PASSAGE-I**

By killing transparency and competition, crony capitalism is harmful to free enterprise, opportunity and economic growth. Crony capitalism, where rich and the influential are alleged to have received land and natural resources and various licences in return for payoffs to venal politicians, is now a major issue to be tackled. One of the greatest dangers to growth of developing economies like India is the middle-income trap where crony capitalism creates oligarchies that slow down the growth.

41. Which among the following is the most logical corollary to the above passage ?
- (a) Launching more welfare schemes and allocating more finances for the current schemes are urgently needed
- (b) Efforts should be made to push up economic growth by other means and provide licences to the poor
- (c) Greater transparency in the functioning of the government and promoting the financial inclusion are needed at present
- (d) We should concentrate more on developing manufacturing sector than service sector

### **PASSAGE-II**

Climate adaptation may be rendered ineffective if policies are not designed in the context of other development concerns. For instance, a comprehensive strategy that seeks to improve food security in the context of climate change may include a set of coordinated measures related to agricultural extension, crop diversification, integrated water and pest management and agricultural information services. Some of these measures may have to do with climate changes and others with economic development.

42. What is the most logical and rational inference that can be made from the above passage?
- (a) It is difficult to pursue climate adaptation in the developing countries
- (b) Improving food security is a far more complex issue than climate adaptation
- (c) Every developmental activity is directly or indirectly linked to climate adaptation

- (d) Climate adaptation should be examined in tandem with other economic development options

### PASSAGE-III

Understanding of the role of biodiversity in the hydrological cycle enables better policy making. The term biodiversity refers to the variety of plants, animals, microorganisms, and the ecosystems in which they occur. Water and biodiversity are interdependent. In reality, the hydrological cycle decides how biodiversity functions. In turn, vegetation and soil drive the movement of water. Every glass of water we drink has, at least in part, passed through fish, trees, bacteria, soil and other organisms. Passing through these ecosystems, it is cleansed and made fit for consumption. The supply of water is a critical service that the environment provides.

43. Which among the following is the most critical inference that can be made from the above passage ?
- (a) Biodiversity sustains the ability of nature to recycle water
  - (b) We cannot get potable water without the existence of living organisms
  - (c) Plants, animals and microorganisms continuously interact among themselves
  - (d) Living organisms could not have come into existence without hydrological cycle

### PASSAGE-IV

In the last decade, the banking sector has been restructured with a high degree of automation and products that mainly serve middle-class and upper middle-class society. Today there is a need for a new agenda for the banking and non-banking financial services that does not exclude the common man.

44. Which one of the following is the message that is essentially implied in the above passage?
- (a) Need for more automation and more products of banks
  - (b) Need for a radical restructuring of our entire public finance system
  - (c) Need to integrate banking and non-banking institutions
  - (d) Need to promote financial inclusion

### PASSAGE-V

Safe and sustainable sanitation in slums has immeasurable benefits to women and girls in terms of their health, safety, privacy and dignity. However, women do not feature in most of the schemes and policies on urban sanitation. The fact that even now the manual scavenging exists, only goes to show that not enough has been done to promote pour-flush toilets and discontinue the use of dry latrines. A more sustained and rigorous campaign needs to be launched towards the right to sanitation on a very large scale. This should primarily focus on the abolition of manual scavenging.

45. With reference to the above passage, consider the following statements :
- (1) Urban sanitation problems can be fully solved by the abolition of manual scavenging only
  - (2) There is a need to promote greater awareness on safe sanitation practices in urban areas

**Which of the statements given above is/are correct?**

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

### PASSAGE-VI

To understand the nature and quantity of Government proper for man, it is necessary to attend to his character. As nature created him for social life, she fitted him for the station she intended. In all cases she made his natural wants greater than his individual powers. No one man is capable, without the aid of society, of supplying his own wants; and those wants, acting upon every individual, impel the whole of them into society.

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

- (a) Nature has created a great diversity in human society  
(b) Any given human society is always short of its wants  
(c) Social life is a specific characteristic of man  
(d) Diverse natural wants forced man towards social system

### PASSAGE-VII

The nature of the legal imperatives in any given state corresponds to the effective demands that state encounters, and that these, in their turn, depend, in a general way, upon the manner in which economic power is distributed in the society which the state controls.

**47. The statement refers to :**

- (a) the antithesis of Politics and Economics  
(b) the interrelationship of Politics and Economics  
(c) the predominance of Economics over Politics  
(d) the predominance of Politics over Economics

### PASSAGE-VIII

About 15 per cent of global greenhouse gas emissions come from agricultural practices. This includes nitrous oxide from fertilizers, methane from livestock, rice production, and manure storage, and carbon dioxide (CO<sub>2</sub>) from burning biomass, but this excludes CO<sub>2</sub> emissions from soil management practices, savannah burning and deforestation. Forestry, land use, and land-use change account for another 17 per cent of greenhouse gas emissions each year, three quarters of which come from tropical deforestation. The remainder is largely from draining and burning tropical peatland. About the same amount of carbon is stored in the world's peatlands as is stored in the Amazon rainforest.

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

- (a) Organic farming should immediately replace mechanised and chemical dependant agricultural practices all over the world  
(b) It is imperative for us to modify our land use practices in order to mitigate climate change

- (c) There are no technological solutions to the problem of greenhouse gas emissions  
 (d) Tropical areas are the chief sites of carbon sequestration
49. A person climbs a hill in a straight path from point 'O' on the ground in the direction of north-east and reaches a point 'A' after travelling a distance of 5 km. Then, from the point 'A' he moves to point 'B' in the direction of north-west. Let the distance AB be 12 km. Now] how far is the person away from the starting point 'O'?
- (a) 7 km                      (b) 13 km                      (c) 17 km                      (d) 11 km
50. An agricultural field is in the form of a rectangle having length X, meters and breadth X, meters (X, and X, are variable). If X, + X, - 40 meters, then the area of the agricultural field will not exceed which one of the following values ?
- (a) 400 sq m                      (b) 300 sm                      (c) 200 sqm                      (d) 80 sqm
51. The sum of the ages of 5 members comprising a family, 3 years ago was 80 years. The average age of the family today is the same as it was 3 years ago, because of an addition of a baby during the intervening period. How old is the baby?
- (a) 6 months    (b) 1 year  
 (c) 2 years    (d) 2 years and 6 months
52. The total emoluments of two persons are the same, but one gets allowances to the extent of 65% of his basic pay and the other gets allowances to the extent of 80% of his basic pay. The ratio of the basic pay of the former to the basic pay of the latter is :
- (a) 16 : 13                      (b) 5 : 4                      (c) 7 : 5                      (d) 12 : 11
53. A person is standing on the first step from the bottom of a ladder. If he has to climb 4 more steps to reach exactly the middle step, how many steps does the ladder have ?
- (a) 8                      (b) 9                      (c) 10                      (d) 11

**Direction for the following 3 (three) items :**

**Consider the given information and answer the three items that follow.**

**When three friends A, B and C met, it was found that each of them wore an outer garment of a different colour. In random order, the garments are: jacket, sweater and tie; and the colours are: blue, white and black. Their surnames in random order are: Ribeiro, Kumar and Singh.**

**Further, we know that :**

- (1) neither B nor Ribeiro wore a white sweater
  - (2) C wore a tie
  - (3) Singh's garment was not white
  - (4) Kumar does not wear a jacket ,
  - (5) Ribeiro does not like to wear the black colour
  - (6) Each of the friends wore only one outer garment of only one colour
54. What is C's surname?
- (a) Ribeiro    (b) Kumar

- (c) Singh (d) Cannot be determined
55. **What is the colour of the tie?**  
(a) Black (b) Blue  
(c) White (d) Cannot be determined,
56. **Who wore the sweater ?**  
(a) A (b) B  
(c) C (d) Cannot be determined
57. **AB is a vertical trunk of a huge tree with A being the point where the base of the trunk touches the ground. Due to a cyclone, the trunk has been broken at C which is at a height of 12 meters, broken part is partially attached to the vertical portion of the trunk at C. If the end of the broken part B touches the ground at D which is at a distance of 5 meters from A, then the original height of the trunk is :**  
(a) 20 m (b) 25 m (c) 30 m (d) 35 m
58. **A person walks 12 km due north, then 15 km due east, after that 19 km due west and then 15 km due south. How far is he from the starting point ?**  
(a) 5 km (b) 9 km (c) 37 km (d) 61 km
59. **A cube has all its faces painted with different colours. It is cut into smaller cubes of equal sizes such that the side of the small cube is one-fourth the big cube. The number of small cubes with only one of the sides painted is :**  
(a) 32 (b) 24 (c) 16 (d) 8
60. **Ram and Shyam work on a job together for four days and complete 60% of it. Ram takes leave then and Shyam works for eight more days to complete the job. How long would Ram take to complete the entire job alone ?**  
(a) 6 days (b) 8 days (c) 10 days (d) 11 days
61. **A military code writes SYSTEM as SYSMET and NEARER as AENRER. Using the same code, FRACTION can be written as :**  
(a) CARFTION (b) FRACNOIT (c) NOITCARF (d) CARFNOIT
62. **If R and S are different integers both divisible by 5, then which of the following is not necessarily true ?**  
(a)  $R - S$  is divisible by 5 (b)  $R + S$  is divisible by 10  
(c)  $R \times S$  is divisible by 25 (d)  $R^2 \div S^2$  is divisible by 5
63. **How many numbers are there between 100 and 300 which either begin with or end with 2 ?**  
(a) 110 (b) 111 (c) 112 (d) None of the above



**Directions for the following 8 (eight) items :**

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

### PASSAGE-I

As we look to 2050, when we will need to feed two billion more people, the question of which diet is best has taken on new urgency. The foods we choose to eat in the coming decades will have dramatic ramifications for the planet. Simply put, a diet that revolves around meat and dairy, a way of eating that is on the rise throughout the developing world, will take a greater toll on the world's resources than one that revolves around unrefined grains, nuts, fruits and vegetables.

**64. What is the critical message conveyed by the above passage ?**

- (a) Our increasing demand for foods sourced from animals puts a greater burden on our natural resources
- (b) Diets based on grains, nuts, fruits and vegetables are best suited for health in developing countries
- (c) Human beings change their food habits from time to time irrespective of the health concerns
- (d) From a global perspective, we still do not know which type of diet is best for us

### PASSAGE-II

All humans digest mother's milk as infants, but until cattle began, being domesticated 10,000 years ago, children once weaned no longer needed to digest milk. As a result, they stopped making the enzyme lactase, which breaks down the sugar lactose into simple sugars. After humans began herding cattle, it became tremendously advantageous to digest milk, and lactose tolerance evolved independently among cattle herders in Europe, the middle East and Africa. Groups not dependant on cattle, such as the Chinese and Thai, remain lactose intolerant.

**65. Which among the following is the most logical assumption that can be made from the above passage ?**

- (a) About 10,000 years ago, the domestication of animals took place in some parts of the world
- (b) A permanent change in the food habits of a community can bring about a genetic change in its members
- (c) Lactose tolerant people only are capable of getting simple sugars in their bodies
- (d) People who are not lactose tolerant cannot digest any dairy product

### PASSAGE-III

"The conceptual difficulties in National Income comparisons between underdeveloped and industrialised countries are particularly serious because a part of the national output in various underdeveloped countries is produced without passing through the commercial channels."

**66. In the above statement, the author implies that :**

- (a) the entire national output produced and consumed in industrialized countries passes through commercial channels
- (b) the existence of a non-commercialized sector in different underdeveloped countries renders the national income comparisons over countries difficult
- (c) no part of national output should be produced and consumed without passing through commercial channels
- (d) a part of the national output being produced and consumed without passing through commercial channels is a sign of underdevelopment

#### **PASSAGE - IV**

An increase in human-made carbon dioxide in the atmosphere could initiate a chain reaction between plants and microorganisms that would unsettle one of the largest carbon reservoirs on the planet - soil. In a study, it was found that the soil, which contains twice the amount of carbon present in all plants and Earth's atmosphere combined, could become increasingly volatile as people add more carbon dioxide to the atmosphere. This is largely because of increased plant growth. Although a greenhouse gas and a pollutant, carbon dioxide also supports plant growth. As trees and other vegetation flourish in a carbon dioxide-rich future, their roots could stimulate microbial activity in soil that may in turn accelerate the decomposition of soil carbon and its release into the atmosphere as carbon dioxide.

**67. Which among the following is the most logical corollary to the above passage ?**

- (a) Carbon dioxide is essential for the survival of microorganisms and plants
- (b) Humans are solely responsible for the release of carbon dioxide into the atmosphere
- (c) Microorganisms and soil carbon are mainly responsible for the increased plant growth
- (d) Increasing green cover could trigger the release of carbon trapped in soil

#### **PASSAGE-V**

Historically, the biggest challenge to world agriculture has been to achieve a balance between demand for and supply of food. At the level of individual countries, the demand-supply balance can be a critical policy issue for a closed economy, especially if it is a populous economy and its domestic agriculture is not growing sufficiently enough to ensure food supplies, on an enduring basis; it is not so much and not always, of a constraint for an open, and growing economy, which has adequate exchange surpluses to buy food abroad. For the world as a whole, supply-demand balance is always an inescapable prerequisite for warding off hunger and starvation. However, global availability of adequate supply does not necessarily mean that food would automatically move from countries of surplus to countries of deficit if the latter lack in purchasing power. The uneven distribution of hunger, starvation, under- or malnourishment, etc., at the world-level, thus owes itself to the presence of empty-pocket hungry mouths, overwhelmingly confined to the underdeveloped economies. In as much as 'a two-square meal' is of elemental significance to basic human existence, the issue of worldwide supply of food has been gaining significance, in recent times, both because the quantum and the composition of demand

has been undergoing big changes, and because, in recent years, the capabilities of individual countries to generate uninterrupted chain of food supplies have come under strain. Food production, marketing and prices, especially price-affordability by the poor in the developing world, have become global issues that need global thinking and global solutions.

**68. According to the above passage, which of the following are the fundamental solutions for the world food security problem ?**

- (1) Setting up more agro-based industries
- (2) Improving the price affordability by the poor
- (3) Regulating the conditions of marketing
- (4) Providing food subsidy to one and all

**Select the correct answer using the code given below:**

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

**69. According to the above passage, the biggest challenge to world agriculture is :**

- (a) to find sufficient land for agriculture and to expand food processing industries
- (b) to eradicate hunger in underdeveloped countries
- (c) to achieve a balance between the production of food and non-food items
- (d) to achieve a balance between demand for and supply of food

**70. According to the above passage, which of the following helps/help in reducing hunger and starvation in the developing economies ?**

- (1) Balancing demand and supply of food
- (2) Increasing imports of food
- (3) Increasing purchasing power of the poor
- (4) Changing the food consumption patterns and practices

**Select the correct answer using the code given below :**

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

**71. The issue of worldwide supply of food has gained importance mainly because of :**

- (1) overgrowth of the population worldwide
- (2) sharp decline in the area of food production
- (3) limitation in the capabilities for sustained supply of food

**Select the correct answer using the code given below:**

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

**72. Four-digit numbers are to be formed using the digits 1, 2, 3 and 4; and none of these four digits are repeated in any manner. Furth**

- (1) 2 and 3 are not to immediately follow each other
- (2) 1 is not to be immediately followed by 3
- (3) 4 is not to appear at the last place
- (4) 1 is not to appear at the first place

**How many different numbers can be formed ?**

- (a) 6                      (b) 8                      (c) 9                      (d) None of the above
73. A cylindrical overhead tank of radius 2 m and height 7 m is to be filled from an underground tank of size (5)5 mx 4 mx6m. How much portion of the underground tank is still filled with water after filling the overhead tank completely ?
- (a)  $\frac{1}{3}$                       (b)  $\frac{1}{2}$                       (c)  $\frac{1}{4}$                       (d)  $\frac{1}{6}$
74. In a class of 60 students, where the number of girls is twice that of boys, Kamal a boy, ranked seventeenth from the top. If there are 9 girls ahead of Kamal, the number of boys in rank after him is :
- (a) 13                      (b) 12                      (c) 7                      (d) 3
75. A and B walk around a circular park. They start at 8 am. from the same point in the opposite directions. A and B walk at a speed of 2 rounds per hour and 3 rounds per hour respectively. How many times shall they cross each other after 8.00 a.m. and before 9.30. a.m. ?
- (a) 7                      (b) 6                      (c) 5                      (d) 3
76. W can do 25% of a work in 30 days, X can do  $\frac{1}{4}$  of the work in 10 days, Y can do 40% of the work in 40 days and Z can do  $\frac{1}{3}$  of the work in 13 days. Who will complete the work first?
- (a) W                      (b) X                      (c) Y                      (d) Z
77. The average monthly income of a person in a certain family of 5 is Rs. 10,000. What will be the average monthly income of a person in the same family if the income of one person increased by Rs. 1,20,000 per year?
- (a) Rs. 12,000                      (b) Rs. 16,000                      (c) Rs. 20,000                      (d) Rs. 34,000
78. In a race, a competitor has to collect 6 apples which are kept in a straight line on a track and a bucket is placed at the beginning of the track which is a starting point. The condition is that the competitor can pick only one apple at a time, run back with it and drop it in the bucket. If he has to drop all the apples in the bucket, how much total distance he has to run if the bucket is 5 meters from the first apple and all other apples are placed 3 meters apart?
- (a) 40 m                      (b) 50 m                      (c) 75 m                      (d) 150 m
79. A round archery target of diameter 1 m is marked with four scoring regions from the centre outwards as red, blue, yellow and white. The radius of the red band is 0.20 m. The width of all the remaining bands is equal. If archers throw arrows towards the target, what is the probability that the arrows fall in the red region of the archery target?
- (a) 0.40                      (b) 0.20                      (c) 0.16                      (d) 0.04
80. A person allows a 10% discount for cash payment from the marked price of a toy and still he makes a 10% gain. What is the cost price of the toy which is marked Rs. 770 ?
- (a) Rs. 610                      (b) Rs. 620                      (c) Rs. 630                      (d) Rs. 640