

1. Dimension of work done by a force is :
  - (a)  $ML^2T^{-2}$
  - (b)  $MLT^{-2}$
  - (c)  $MLT^{-1}$
  - (d)  $ML^{-1}T$
2. Boyle's law relates to :
  - (a) Kinetic Theory of Gases
  - (b) Viscosity of Liquids
  - (c) Elasticity of Solids
  - (d) Plasticity of Solids
3. Electromagnetic waves and sound waves are respectively :
  - (a) Longitudinal and Transverse
  - (b) Longitudinal and Longitudinal
  - (c) Transverse and Longitudinal
  - (d) Transverse and Transverse
4. The parameter of the light wave, which does not change when it goes from one medium to another, is :
  - (a) Amplitude
  - (b) Wavelength
  - (c) Frequency
  - (d) Velocity
5. Diamagnetic contribution to the total susceptibility of a solid is due to :
  - (a) Magnetic field induced change in the spin motion of electrons
  - (b) Magnetic field induced change in the orbital motion of electrons
  - (c) Intrinsic spin angular momentum of the electrons
  - (d) Intrinsic orbital angular momentum of the electrons
6. Energy stored in a capacitor 'C' with a potential difference 'V' across it is :
  - (a)  $\frac{1}{2}CV^2$
  - (b)  $CV^2$
  - (c)  $CV$
  - (d)  $C/V$
7. A two stage R-C coupled cascaded amplifier consists of two transistors in common emitter configuration and a fraction of the output of the second stage is fed back to the input of the first stage. The amplification factor of each stage is 5 and the feed back fraction is 0.02. Its net gain is :
  - (a) 10
  - (b) 25
  - (c) 50
  - (d) 100
8. The bottommost and the topmost layers in earth's atmosphere respectively are :
  - (a) Mesosphere and Troposphere
  - (b) Mesosphere and Thermosphere
  - (c) Stratosphere and Thermosphere
  - (d) Troposphere and Thermosphere



9. 5.6 litres of oxygen at NTP is equivalent to :
- (a) 1 mole
  - (b)  $1/2$  mole
  - (c)  $1/4$  mole
  - (d)  $1/8$  mole
10. The transition of an electron in the hydrogen atom that will emit maximum energy is :
- (a)  $n_5$  to  $n_4$
  - (b)  $n_4$  to  $n_3$
  - (c)  $n_3$  to  $n_2$
  - (d)  $n_2$  to  $n_1$
11. If  $3/4$  quantity of a radioactive element disintegrates in two hours, its half-life would be :
- (a) 1 hour
  - (b) 45 minutes
  - (c) 30 minutes
  - (d) 15 minutes
12. Radioactive decay is a reaction of :
- (a) Zero Order
  - (b) First Order
  - (c) Second Order
  - (d) Third Order
13. The boiling point of HF is very high due to :
- (a) Metallic Bonding
  - (b) Coordinate Bonding
  - (c) Hydrogen Bonding
  - (d) Covalent Bonding
14. Which of the following is destroying the ozone layer in stratosphere ?
- (a) Oxygen
  - (b) Carbon dioxide
  - (c) CFC
  - (d) Methane
15. Which of the following is responsible for acid rain ?
- (a) NO
  - (b)  $\text{NO}_2$
  - (c)  $\text{CO}_2$
  - (d)  $\text{O}_3$
16. When glucose is oxidized with mild oxidizing agents such as bromine water, it forms :
- (a) Glucaric Acid
  - (b) Gluconic Acid
  - (c) Sorbitol
  - (d) Aldaric Acid
17. Sariska Wildlife Sanctuary is situated in the state of :
- (a) Punjab
  - (b) Gujarat
  - (c) Rajasthan
  - (d) Andhra Pradesh
18. Which of the following is not used for the production of biofuels ?
- (a) Jatropha
  - (b) Wheat
  - (c) Corn
  - (d) Sugarcane



19. Polio is caused by the infection of which of the following ?
  - (a) Gram + ve bacteria
  - (b) Fungi
  - (c) RNA virus
  - (d) DNA virus
20. Which of the following antibiotics is a broad-spectrum antibiotics ?
  - (a) Actinomycin
  - (b) Penicillin
  - (c) Tetracycline
  - (d) Mytomycin
21. Who among the following Indian Scientists has pioneering contribution for DNA fingerprinting techniques ?
  - (a) H. G. Khorana
  - (b) Lalji Singh
  - (c) Sir J. C. Bose
  - (d) None of them
22. From the following which is an incorrect statement for stem cells ?
  - (a) These are undifferentiated cells
  - (b) These cells can be differentiated into unipotent cells
  - (c) These cells do not form multipotent cells
  - (d) None of these
23. "Golden Rice" a GM crop, taken aim to reduce which of the following vitamin deficiency in humans ?
  - (a) Vitamin A
  - (b) Vitamin B
  - (c) Vitamin C
  - (d) Vitamin D
24. The resinous mixture collected by honey bees from plants is known as :
  - (a) Honey
  - (b) Propolis
  - (c) Bee wax
  - (d) Royal jelly
25. Who was the first to propose the concept behind nanotechnology ?
  - (a) Galileo Galilei
  - (b) Richard P. Feynman
  - (c) K. Eric Drexler
  - (d) Richard Smalley
26. Which one of the following aimed at providing a federal structure for India ?
  - (a) Indian Council Act, 1909
  - (b) Montague-Chelmsford Reform Act, 1919
  - (c) Charter Act, 1831
  - (d) Government of India Act, 1935
27. The Union Council of Ministers consists of :
  - (a) Prime Minister
  - (b) Cabinet Ministers
  - (c) Cabinet Ministers and Chief Ministers of States
  - (d) Cabinet Ministers, Ministers of State and Deputy Ministers



28. Who appoints the Chairman of the UPSC ?

- (a) President
- (b) Prime Minister
- (c) Chief Justice of India
- (d) Speaker of Lok Sabha

29. The power to grant pardons, reprieve or remissions of punishment under Article 72 is exercised by the President of India :

- (a) On the advice of the Prime Minister
- (b) On his own as the Head of the Union
- (c) On the advice of the Council of Ministers
- (d) In consultation with the Prime Minister who tender his opinion on the advice of his cabinet

30. The three-tier system of Panchayats :

- (a) Is uniformly applicable to all States
- (b) Is applicable only to States with population above 50 Lakhs
- (c) Has been replaced with a four-tier one
- (d) None of these

31. Intellectual property rights are concerned with :

- (a) Scientific discovery of indigenous knowledge
- (b) Protection and patenting of indigenous knowledge

(c) Upgradation of indigenous knowledge

(d) Marketability of indigenous knowledge

32. The concept of Sustainable Development was popularised by Brundtland Report and Report of the World Commission on Environment and Development in :

- (a) 1991
- (b) 1993
- (c) 1992
- (d) 1995

33. Which of the following schedules deals with the division of powers between Union and States ?

- (a) Fourth
- (b) Sixth
- (c) Ninth
- (d) Seventh

34. The 73<sup>rd</sup> Amendment Act emanates from the Article :

- (a) 38
- (b) 40
- (c) 44
- (d) 52

35. Right to Information is :

- (a) Fundamental Right
- (b) Legal Right



- (c) Neither Fundamental Right nor Legal Right
- (d) Both Fundamental as well as Legal Right
36. The Jawaharlal Nehru Award for International Understanding for 2009 was given by President Pratibha Patil to :
- (a) Angela Merkel
- (b) Barack Obama
- (c) Vladimir Putin
- (d) Kofi Annan
37. The book "Prison Notebooks" is authored by ?
- (a) Neitzsche
- (b) Wallerstein
- (c) Gramsci
- (d) Mahatama Gandhi
38. Who among the following was the Chairman of the States Committee of the Constituent Assembly ?
- (a) Dr. B. R. Ambedkar
- (b) Jawaharlal Nehru
- (c) Dr. Rajendra Prasad
- (d) Sardar Patel
39. Globalisation means connectivity. One of the types of connectivity is Ethnorelated. It implies :
- (a) Movement of the technology
- (b) Movement of the people
- (c) Global spreading of ideas and ideologies
- (d) Global flow of commodity
40. The members of the Constituent Assembly were nominated by :
- (a) Nominated by Governor General
- (b) Directly Elected by the People
- (c) Elected by the Legislatures of various provinces and nominated by the rulers of the Princely States
- (d) Nominated by the Congress and Muslim League
41. Domestic Violence Act, 2005 came into force on :
- (a) October 26, 2005
- (b) October 26, 2006
- (c) December 10, 2005
- (d) December 10, 2006
42. The Liberhan Commission was established to investigate which of the event in India ?
- (a) Gujarat 2002 riots
- (b) Bombing of Kanishka Aircraft
- (c) Babri Masjid Demolition
- (d) Terrorist Attack on the Indian Parliament
43. Who among the following led the Cultural Revolution in China during 1966 – 69 ?
- (a) Mao Zedong
- (b) Zhou Enlai
- (c) Liu Shaoqi
- (d) Deng Xiaoping



44. Among the following Human Development Index (HDI) is measured by :
- Education, Nutrition and Standard of living of people
  - Education, Health conditions and Standard of living of people
  - Health, Nutrition and Standard of living of people
  - Life expectancy, Education and Standard of living of people
45. Which one is the long term objective of the National Population Policy of 2000 ?
- To achieve stable population by 2045
  - To achieve stable population by 2020
  - To achieve stable population by 2025
  - To achieve stable population by 2040
46. By how many percentage points the Tenth Five Year Plan targeted for reduction of poverty ratio by 2007 ?
- 15 Percentage Points
  - 10 Percentage Points
  - 5 Percentage Points
  - 3 Percentage Points
47. According to the recent estimates of the poverty line in India, the daily calorie intake of a person in rural areas is :
- 2100 Calories
  - 2200 Calories
  - 2300 Calories
  - 2400 Calories
48. In India, the Capital Market conditions are regulated by :
- RBI
  - LIC
  - SEBI
  - NABARD
49. Which one of the following institution was replaced by World Trade Organization (WTO) ?
- UNCTAD
  - GATT
  - IBRD
  - IDA
50. The Government of India adopted the Special Economic Zones (SEZ) Act in the year :
- 2003
  - 2004
  - 2005
  - 2006



51. Kalibangan was located on the river bank of :  
 (a) Indus  
 (b) Sutlej  
 (c) Chenab  
 (d) Ghaggar
52. Who was the Founder of the Indo-Greek Dynasty in India ?  
 (a) Alexander  
 (b) Menander  
 (c) Demitrius  
 (d) Kanishka
53. Vardamana Mahavira died at :  
 (a) Kusinara  
 (b) Vaishali  
 (c) Rajagriha  
 (d) Pava
54. Aryabhatiyam of Aryabhata was primarily a treatise on :  
 (a) Astrology  
 (b) Astronomy  
 (c) Metallurgy  
 (d) Mathematics
55. The Capital City of Kanishka was :  
 (a) Kanishkapura  
 (b) Sakal (Sialkot)  
 (c) Purushapura (Peshawar)  
 (d) Jalandhar
56. Who, among the following wrote Prithviraj-Raso ?  
 (a) Amara-Singh  
 (b) Yadava  
 (c) Chandra Baradai  
 (d) Jaya Singh Sura
57. Vasco-de-Gama reached the Malabar Coast of Calicut in the year :  
 (a) 1492  
 (b) 1495  
 (c) 1497  
 (d) 1498
58. The Third Battle of Panipat was between the :  
 (a) Afghans and the Marathas  
 (b) Afghans and the Sikhs  
 (c) Marathas and the Mughals under Shah Alam II  
 (d) None of them
59. Swami Dayanand Saraswati established Arya Samaj in 1875 at :  
 (a) Lahore  
 (b) Nagpur  
 (c) Ahmadnagar  
 (d) Bombay



60. Who, among the following Pala rulers, established the University of Vikramsila ?

- (a) Dharmapala
- (b) Devapala
- (c) Narayanapala
- (d) Mahipala – 1

61. The Rajarajeswara Temple of Tanjore was constructed by :

- (a) Rajaraja the Great
- (b) Rajendra I
- (c) Rajadhiraja I
- (d) Vikram Chola

62. Which one of the following was not built by Alauddin Khilji ?

- (a) Hazar Sutun
- (b) Siri Fort
- (c) Hauz-Khas
- (d) Purana Qila

63. Which of the following was known as the Lakh Bash ?

- (a) Qutubuddin Aibak
- (b) Iltutmish
- (c) Balban
- (d) Alauddin Khilji

64. What is Vesara ?

- (a) A work on music
- (b) An art form
- (c) A painting
- (d) A literary work

65. The Widows Re-Marriage Act was passed by :

- (a) William Bentinck
- (b) Lord Dalhousie
- (c) Lord Canning
- (d) Lord Ripon

66. The Moplah Rebellion of 1921 took place in :

- (a) Telengana
- (b) Malabar
- (c) Marathwada
- (d) Bihar

67. Which one of the following pairs is incorrectly matched ?

- (a) First Anglo – Mysore War – Defeat of Madras Government by Haider Ali
- (b) Second Anglo – Mysore War – Treaty of Mangalore
- (c) Third Anglo – Mysore War – Defeat of Tipu Sultan
- (d) Fourth Anglo – Mysore War – Subsidiary Alliance Treaty imposed on Mysore

68. In which of the following sources the concept of "Bharatavarsha" appeared for the first time ?

- (a) Rock Edict No. XIII
- (b) Hathigumpha Inscription of Kharavela



- (c) Allahabad Pillar Prasasti  
(d) Meghadutam of Kalidasa
69. Earliest reference to Kalinga is found in which of the following texts :  
(a) Mahabharata  
(b) Anguttara Nikaya  
(c) Bhagavati Sutra  
(d) Aitareya Brahmana
70. Who is considered as the real founder of Somavamsi Rule in Kosala ?  
(a) Yayati I  
(b) Mahasiva Tivaradeva  
(c) Janmejaya I  
(d) Udyotakeshari
71. Name the Ganga ruler who described himself as the "Rauta" and "Putra" of Lord Purushottama Jagannath :  
(a) Chodaganga deva  
(b) Narasimha deva I  
(c) Ananga bhima deva III  
(d) Rajaraja III
72. Which was the tutelary deity of the Early Gangas of Kalinga ?  
(a) Purushottama Jagannath  
(b) Lingaraja  
(c) Gokarneswar Shiva  
(d) Nrusimhanatha
73. Who was the builder of Qadam-i-Rasul building at Balasore ?  
(a) Taqi Khan  
(b) Shujauddin
- (c) Raja Mansingh  
(d) Kalyan Mall
74. The Architectural plan of the Jagamohan of Konarka Temple is :  
(a) Triratha  
(b) Pancharatha  
(c) Saptaratha  
(d) Navaratha
75. The first Odia to be converted into Christianity was :  
(a) Madhusudan Das  
(b) Gangadhar Sarangi  
(c) Maharaja Krushna Chandra Bhanja of Mayurbhanj  
(d) Madhusudan Rao
76. If the GMT at London is 7 : 00 a. m., what will be the corresponding IST at Delhi ?  
(a) 10 : 30 a. m.  
(b) 11 : 30 a. m.  
(c) 12 : 30 p. m.  
(d) 01 : 30 p. m.
77. Trade winds are caused by :  
(a) Revolution of the earth  
(b) Rotation of the earth  
(c) Inflowing movement of air along the earth's surface towards the equator  
(d) None of these
78. Which of the following is the region for Winter Rainfall ?  
(a) Mediterranean  
(b) Tropical



- (c) Arctic  
(d) Monsoon
79. Sargasso Sea is located in :  
(a) North Sea  
(b) North Atlantic Ocean  
(c) South Atlantic Ocean  
(d) North Pacific Ocean
80. Ozone layer is found in :  
(a) Troposphere  
(b) Stratosphere  
(c) Mesosphere  
(d) Ionosphere
81. Willy-Willy is the tropical cyclone occurring in :  
(a) China Sea  
(b) Caribbean Sea  
(c) Coast of North-West Australia  
(d) Gulf of Mexico
82. Alfalfa is :  
(a) A town  
(b) A tribe  
(c) A kind of grass  
(d) A mineral
83. Which one of the following is NOT an Alpine range of mountain formed during the Tertiary Period ?  
(a) Alps  
(b) Himalayas  
(c) Andes  
(d) Aravali
84. The Pir Panjal Range lies in :  
(a) Outer Himalaya  
(b) Middle Himalaya  
(c) Greater Himalaya  
(d) Trans Himalaya
85. In which of the following states, Garo, Khasi and Jaintia hills are located ?  
(a) Jammu and Kashmir  
(b) Maharashtra  
(c) Nagaland  
(d) Meghalaya
86. Rachna doab is located between which of the following rivers ?  
(a) Beas and Sutlej  
(b) Beas and Ravi  
(c) Ravi and Chenab  
(d) Chenab and Jhelum
87. The decadal population growth of India during 1991 – 2001 was :  
(a) 23 percent  
(b) 21 percent  
(c) 19 percent  
(d) 17 percent
88. Which one of the following states has the lowest tribal population ?  
(a) Uttar Pradesh  
(b) Andhra Pradesh  
(c) Punjab  
(d) Haryana



89. Which one of the following cities is known as cottonopolis of India ?
- Ahmedabad
  - Kolkata
  - Pune
  - Mumbai
90. Which one of the following is not correctly matched ?
- | <b>Aircraft Industry</b>     | <b>City</b> |
|------------------------------|-------------|
| (a) MIG Engines              | Koraput     |
| (b) Aero Frames              | Nasik       |
| (c) Research and Development | Sindri      |
| (d) Transport Aircraft       | Kanpur      |
91. Which one of the following oil refineries is **not** situated along the coast ?
- Jamnagar
  - Trombay
  - Cochin
  - Vishakhapatnam
92. National Water-ways 1 (NW – 1) connects :
- Kollam to Kottapuram
  - Sadia to Dhubri
  - Haldia to Allahabad
  - Haldia to Kolkata
93. Which river has not its source of origin in Odisha ?
- Baitarani
  - Rusikulya
  - Budhabalanga
  - Subarnarekha
94. Which waterfall is not situated in Odisha ?
- Khandadhar
  - Dhunadhar
  - Barehipani
  - Duduma
95. Which of the following is the speciality of Hirakud Dam ?
- The highest river dam
  - The longest river dam of the world
  - The first and foremost river dam of the world
  - The only multipurpose river dam of India
96. Which two mineral resources is Joda famous for ?
- Iron Ore and Chromite
  - Chromite and Manganese
  - Manganese and Iron Ore
  - Manganese and Bauxite
97. What type of forest is seen at the mouth of river Mahanadi ?
- Thorny Forest
  - Mountainous Forest
  - Coniferous Forest
  - Tidal Forest
98. On which type of forest of Odisha, Bidi manufacturing units are based ?
- Tropical moist deciduous forest



- (b) Tropical dry deciduous forest  
(c) Tidal forest  
(d) Tropical semi-evergreen forest
99. When was the super cyclone held in Odisha ?  
(a) 2002  
(b) 2000  
(c) 1999  
(d) 1998
100. Which district was severely affected by the super cyclone in Odisha :?  
(a) Jajpur  
(b) Kendrapara  
(c) Jagatsinghpur  
(d) Puri
101. The East-India Company Rule in India was abolished in the year :  
(a) 1947  
(b) 1919  
(c) 1905  
(d) 1858
102. Who was the Vice-President of India during the period between 1967 – 1969 ?  
(a) G. S. Pathak  
(b) B. D. Jetti  
(c) V. V. Giri  
(d) M. Hidayatullah
103. Control over the power of Delegated Legislation is exercised by :  
(a) Cabinet  
(b) Lok Sabha  
(c) Rajya Sabha  
(d) President of India
104. In which year the voting age in India was reduced from 21 to 18 years ?  
(a) 1981  
(b) 1977  
(c) 1986  
(d) 1989
105. By which of the Constitutional Amendment the Privy Purses were abolished ?  
(a) Twenty fifth  
(b) Twenty sixth  
(c) Twenty fourth  
(d) Twenty ninth
106. A Member of Opposition Party joining with other Opposition Party is known as :  
(a) Carpet Crossing  
(b) Seat Crossing  
(c) Floor Crossing  
(d) Line Crossing
107. Foundation of modern system of municipal government was laid by :  
(a) Chandragupta Maurya  
(b) Ashoka



- (c) Akbar
- (d) The British

108. Local self government is :

- (a) Government of a local political unit by its own people
- (b) Representative government and self control
- (c) All of these
- (d) None of these

109. Gram Sabha consists of :

- (a) All people of the Panchayat
- (b) Adult men of the Panchayat
- (c) Persons aged eighteen and above of the Panchayat having the right to vote
- (d) Persons aged eighteen and above of the district

110. Odisha has :

- (a) Five Municipal Corporations thirty seven Municipalities and sixty two Notified Area Councils
- (b) Three Municipal Corporations, thirty seven Municipalities and sixty three Notified Area Councils
- (c) Three Municipal Corporations, thirty eight Municipalities and sixty three Notified Area Councils

- (d) Four Municipal Corporations, thirty seven Municipalities and sixty three Notified Area Councils

111. Which of the following amendments to the Constitution of India confers constitutional status to urban local government ?

- (a) 71 Amendment Act
- (b) 72 Amendment Act
- (c) 73 Amendment Act
- (d) 74 Amendment Act

112. Development Administration refers to :

- (a) Developing Countries of Asia
- (b) Developing Countries of Asia and Africa
- (c) Developing Countries of Asia, Africa and Latin America
- (d) Developed Countries

113. PURA is the programme introduced to check :

- (a) Rural-Rural Migration
- (b) Urban-Urban Migration
- (c) Rural-Urban Migration
- (d) Urban-Rural Migration

114. Food Inflation in India is measured with the help of :

- (a) Consumer price index
- (b) Wholesale price index
- (c) Agriculture commodities price index
- (d) Industrial workers price index



115. FRMBA is the act relating to :

- (a) Fiscal Deficit
- (b) Revenue Deficit
- (c) Primary Deficit
- (d) Budgetary Deficit

116. TOBIN Tax is a tax :

- (a) Tax on Tax
- (b) Tax on Services
- (c) Tax on Income
- (d) Tax on Transactions

117. The beneficiaries of MGNREGA are :

- (a) BPL of rural area
- (b) BPL of urban area
- (c) SC/STs of rural area
- (d) SC/STs of urban area

118. The organisation which has developed HDI is :

- (a) IBRD
- (b) UNDP
- (c) UNCTAD
- (d) IMF

119. The central objective of the 11th Five Year Plan is :

- (a) Growth with social justice
- (b) Rapid economic growth

- (c) To achieve balanced regional economic growth
- (d) Inclusive growth

120. The Govt. of Odisha has initiated a programme 'Integrated Action Plan' in 2010 – 11 with the support of Government of India for the development of :

- (a) Flood affected districts
- (b) Tribal and backward districts
- (c) KBK districts
- (d) Drought affected districts

121. As per 2011 census (Provisional) the sex-ratio of Odisha is :

- (a) 988
- (b) 978
- (c) 972
- (d) 968

122. In 2009–10 share of agriculture in GSDP stands at :

- (a) 14.6 %
- (b) 18.4 %
- (c) 21.1 %
- (d) 23.9 %

123. Highest decadal growth of population in 2011 over 2001 is noticed in the district of :

- (a) Bolangir
- (b) Malkangiri



(c) Khurda

(d) Angul

124. The new programme launched since 2008–09 by merging two earlier programmes PMRY and REGP is :

(a) PMEGP

(b) MGNREGS

(c) SGSY

(d) SJSRY

125. The share of Private Sector in the total employment in organised sector of the State in 2009 stands at :

(a) 20.9 %

(b) 18.5 %

(c) 15.8 %

(d) 12.4 %

126. The sum of two numbers is 1000. If the larger one is decreased by 10% and the smaller one is increased by 20% then the sum is decreased by 3.4%. The larger number is :

(a) 680

(b) 720

(c) 750

(d) 780

127. The digit in the unit place in the expansion of  $3^{247}$  is :

(a) 3

(b) 6

(c) 7

(d) 8

128. At what rate of compound interest per annum will a sum of Rs. 2,500 become Rs. 3,129 in 3 years ?

(a) 7%

(b) 7.5%

(c) 8%

(d) 8.25%

129. For what value of  $m$ , the quadratic equation  $2(m+7)x^2 + (m+7)x + 1 = 0$  has equal roots ?

(a) -7

(b) 0

(c) 1

(d) -1

130. Let  $a$  and  $b$  be the two natural numbers such that  $a > b$ . If  $d$  is the greatest common divisor of  $a$  and  $b$ , then the greatest common divisor of  $a - b$  and  $b$  is equal to :

(a)  $d$

(b)  $a/d$

(c)  $b/d$

(d) None of these

131. The area of a triangle with sides 18 cm, 80 cm and 82 cm is :

(a)  $180 \text{ cm}^2$

(b)  $720 \text{ cm}^2$



(c)  $1440 \text{ cm}^2$

(d)  $3280 \text{ cm}^2$

132. In an acid-water solution of 300 liters, acid and water are in the ratio 7 : 3. How much water must be added to this solution so as to change the ratio of acid and water to 3 : 7 ?

(a) 320 liters

(b) 400 liters

(c) 420 liters

(d) 450 liters

133. The distance between two cities A and B is 10,000 kilometers. A car travels from city A to city B at a speed of 40 kilometers per hour and comes back at a speed of 60 kilometers per hour. The average speed of the car is :

(a) 48 km

(b) 50 km

(c) 52.5 km

(d) None of these

134. The total number of nonempty subsets of the set  $\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$  is :

(a) 999

(b) 1000

(c) 1023

(d) 1024

135. How many four digit numbers can be formed using 0, 1, 2, 3, 4 if each digit can be used any number of times ?

(a) 96

(b) 120

(c) 500

(d) 625

136. The probability that husband watches a T. V program is 0.6, the probability that the wife watches the same program is 0.4 and the probability that the husband and wife watches the same program is 0.3, then :

(a) The events are independent

(b) The events are mutually exclusive

(c) Both (a) and (b)

(d) None of these

137. For a frequency table, the appropriate graphical representation is :

(a) Histogram

(b) Bar Diagram

(c) Pie Chart

(d) None of these

138. A and B are mutually exclusive events.  $P(A) = 0.3$ ,  $P(B) = 0.4$  then  $P(A/B)$  is :

(a) 0.3

(b) 0



- (c)  $3/4$   
 (d) None of these
139. In percentage bar diagram the heights of the bars are :  
 (a) Equal  
 (b) Need not be equal  
 (c) Equal to 100  
 (d) Both (a) and (c)
140. Probability of  $B/A = P(A \cap B)$ , then in the Venn diagram :  
 (a) B is a subset of A  
 (b) A is a subset of B  
 (c) Both (a) and (b)  
 (d) None of these
141. A and B are independent events  $P(A) = 0.3$ ,  $P(B) = 0.5$  then  $P(A \cup B)$  is equal to :  
 (a) 0.8  
 (b) 0.60  
 (c) 0.65  
 (d) None of these
142. The population gender wise is available for 10 years. It is decided to use a bar diagram to represent this data. The focus is in the total population as well as by gender. The appropriate bar diagram is :  
 (a) Subdivided bar diagram  
 (b) Percentage bar diagram  
 (c) Multiple bar diagram  
 (d) None of these
143. Consider a family of two children. Assume that male and female children are equally likely. If one of the child is female, what is the probability that the other child is a male ?  
 (a)  $1/4$   
 (b)  $1/2$   
 (c)  $3/4$   
 (d)  $2/3$
144. Probability of A or B = 0.7.  $P(A) = 0.4$ ,  $P(B) = 0.2$  then  $P(A/B)$  is equal to :  
 (a)  $1/4$   
 (b) 0.4  
 (c)  $1/2$   
 (d) None of these
145.  $P(A) = 0.3$ ,  $P(A/B) = 0.3$ ,  $P(B) = 0.5$  and  $P(B/A) = 0.5$  then the events are :  
 (a) Independent  
 (b) Mutually Exclusive  
 (c) Dependent  
 (d) None of these
146. The most important quality of personality is :  
 (a) Social Adaptability  
 (b) Polished Manners



- (c) Choosing Right Dress
- (d) Having a Cheerful Disposition

147. How many meaningful English words can be formed with the letters of the word 'STOP' each using only once in a word but in different sequence, starting with the letter P ?

- (a) Two
- (b) One
- (c) Three
- (d) More than three

148. R is the daughter of Q. M is the sister of B, who is the son of Q. How M is related to R ?

- (a) Cousin
- (b) Niece
- (c) Sister
- (d) Aunt

149. In a group of five persons A, B, C, D, and E, there is a Professor, a Doctor and a Lawyer. A and D are unmarried ladies and do not work. Of the married couple in the group, E is the husband. B is brother of A and is neither a Doctor nor a Lawyer. Who is the Professor ?

- (a) B
- (b) C
- (c) A
- (d) None of these

150.  $\frac{1}{4} \div \frac{1}{8}$  is equal to :

- (a)  $\frac{1}{32}$
- (b)  $\frac{1}{8}$
- (c)  $\frac{1}{2}$
- (d) 2

.....



# ANSWER KEY

Subject:-

General Studies

Q. No.	Answer a, b, c & d.	Q. No.	Answer a, b, c & d.	Q. No.	Answer a, b, c & d.
1	a	Q17 → (C)	26. D	51-d	68 b
		18 → (b)	27. D	52-b	69 d
2	a	19 → (C)	28. A	53-d	70 b
		20 → (C)	29. C	54-d	71 c
3	c	21 → (b)	30. C	55-d	72 c
		22 → (d)	31. B	56-c	73 a
4	c	23 → (a)	32. C	57-d	74 b
		24 → (b)	33. D	58-a	75 b
5	b	25 → (b)	34. B	59-a	76 a
			35. B	60-a	77 c
6	a		36. A	61-a	78 a
			37. C	62-d	79 b
7	c		38. B	63-a	80 b
			39. B	64-b	81 c
8	d		40. C	65-b	82 c
			41. B	66-b	83 d
			42. C	67-c	84 b
			43. A		
			44 b		
			45 a		
			46 c		
			47 d		
			48 c		
			49 b		
			50 c		
					85 d
					86 c
					87 b
					88 c
					89 d
					90 c
					91 a
					92 c
					93 d
					94 b
					95 b
					96 c
					97 d
					98 a
					99 c
					100 c

9. 1. Ans: (c)  
 10. 2. Ans: (d)  
 11. 3. Ans: (a)  
 12. 4. Ans: (b)  
 13. 5. Ans: (c)  
 14. 6. Ans: (c)  
 15. 7. Ans: (b)  
 16. 8. Ans: (b)

Side  
option



ANSWER KEY

Subject:- *General Studies*

Q. No.	Answer a, b, c & d.	Q. No.	Answer a, b, c & d.

101 - D

102 - C

103 - B

104 - D

105 - B

106 - A

107	d
108	c
109	c
110	b
111	d
112	c

113 c)

114 c)

115 a)

116 d)

117 a)

118 b)

119 d)

120	b	146	A
121	b	147	A
122	b	148	C
123	a	149	<del>D</del> D
124	a	150	D
125	c		

126. d

127. c

128. c

129. c

130. a

131. b

132. b

133. a

134. c

135. c

136	(d)
137	(a)
138	(b)
139	(d)
140	(a)
141	(c)
142	(a)
143	(d)
144	(c)
145	(a)

*Signature*