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Serial No. 0051369

Question Booklet Series - **A**

Entrance Examination – 2018

Time allowed: Two Hours (10.30 a.m. to 12.30 p.m.) Maximum Marks: 200

INSTRUCTIONS TO THE CANDIDATE:

1. Immediately after the commencement of the examination, check the booklet for any unprinted or torn or missing pages or items, etc. If so, get it replaced with a complete another booklet.
2. Encode clearly the booklet series A, B, C or D in the appropriate place in the answer sheet with Blue or Black ball point pen only.
3. Shade your Booklet series properly in the space provided in the OMR answer sheet.
4. The booklet contains hundred questions. Each question comprises four answers (responses). Select the correct answer (response), which you want to mark on the answer sheet. In case, you feel that there is more than one correct answer (response), mark the answer (response), which you consider the best. In any case, choose ONLY ONE answer (response) for each question.
5. The answer (response) must be shaded ONLY on the OMR answer sheet provided.
6. All items carry equal marks.
7. After you have shaded all your answers (response) on the OMR answer sheet submit the same to the invigilator.
8. You are permitted to take only the question booklet.
9. Sheet for rough work is appended in the question booklet at the end.

DIRECTIONS FOR THE FOLLOWING THREE QUESTIONS

Read the passage given below and answer the questions that follow.

A,B,C,D,E,F are members of a family. They are engineer; stenographer, doctor, draughtsman, lawyer and judge (not in order). A, the engineer is married to the lady stenographer. The judge is married to the lawyer. F the draughtsman is the son of B and brother of E. C the lawyer is the daughter-in law of D. E is the unmarried doctor. D is the grandmother of F. There are two married couples in the family.

3. What is the profession of B?

 - a) Judge
 - b) Lawyer
 - c) Draughtsman
 - d) Cannot be determined

4. Which of the following is/are a couple/couples?

 - a) AD only
 - b) BC only
 - c) Both AD and BC
 - d) Both AC and BD

5. What is the profession of D?

 - a) Judge
 - b) Stenographer
 - c) Doctor
 - d) Cannot be determined

6. Landslide in India is due to

 - 1. Incessant rain
 - 2. Large scale slope modification for the house construction.
 - 3. High angle slope for road construction
 - 4. Large scale sloping for coffee plantation.
 - a) 1 only
 - b) 3 & 4 only
 - c) 2 & 3 only
 - d) All of them.

7. Which of these rivers is an antecedent drainage?

 - Ganga
 - Gomti
 - Ghaghara
 - Gandak

8. Match the following.

| | |
|--------------|---------------------|
| A. Wind gap | 1. Glacier |
| B. Cirque | 2. Running water |
| C. Gour | 3. Winds |
| D. Sinkholes | 4. Karst Topography |

9. **Ten degree channel separates**

 - Andaman and Nicobar
 - Nicobar and Sumatra
 - Sumatra and Java
 - Maldives and Sri Lanka

10. Dried grapes are known as

 - Currents
 - Raisins
 - Sultanas
 - 1
 - 2
 - 3
 - All of them

11. Which is NOT a correct statement?

 - Tides are caused by the attractive force of the Sun and the Moon
 - Tides do not occur at the same time every day
 - Tides are caused by the force of wind
 - Tides are useful for man along the coast
 - 1
 - 2
 - 3
 - 4

12. Match the following

| | |
|----------------------------|-------------------|
| A. Nalpati sanctuary | 1. Tamilnadu |
| B. Ranganathittu sanctuary | 2. Haryana |
| C. Sultanpur | 3. Karnataka |
| D. Vedanthangal | 4. Andhra Pradesh |

13. **Match the following**

| | |
|------------|------------|
| A B C D | 1. 2 3 4 |
| a) 2 1 3 4 | b) 1 2 3 4 |
| c) 2 4 1 3 | d) 4 3 2 1 |

13. Importance of port depends on its
- Prosperity of the hinterland
 - Good communication system
 - Population
 - Location and modern facilities
- a) 1,2 & 4 b) 1 & 2 c) 1, 2 & 3 d) 1,2, 3 & 4
14. In India soil erosion is associated with
- Terrace cultivation
 - Deforestation
 - Tropical climate
- a) 1 & 2 b) 2 only c) 1 & 3 d) 1, 2 & 3
15. Which of the rivers is /are antecedent drainage?
- Indus
 - Sutlej
 - Ghaghara
 - Brahmaputra
- a) 1&2 b) 3 c) 3&4 d) All of them
16. Match the following:
- | | |
|-----------|----------------------------|
| A. Grams | 1. Karnataka and Tamilnadu |
| B. Maize | 2. Rajasthan and U.P. |
| C. Barley | 3. Karnataka and Telengana |
| D. Ragi | 4. M.P. and Rajasthan |
- A B C D
- a) 4 3 2 1 b) 1 2 3 4 c) 3 1 2 4 d) 2 4 1 3
17. Which of the following pairs are correct?
- Sherry of Spain
 - Port of Portugal
 - Champaign of France
 - Marsala of Italy
- a) 1 & 3 b) 2 & 4 c) 1, 2 & 3 d) 1, 2 , 3 & 4

Which of the statement(s) given above is / are correct?

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

23. Consider the following pairs :

| Office under the Sultanate | Nature of work |
|----------------------------|-------------------------------------|
| 1. Wazir | In charge of Income and expenditure |
| 2. Sadr-us-sadar | Religious affairs |
| 3. Mumshi-i-mumalik | State's postal correspondence |
| 4. Wakil-i-dar | Incharge of royal armoury |

Which are the pairs given above are correctly matched?

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

24. With reference to the Mughal empire, consider the following statements:

- 1. From 1556 - 1719, the Mughal empire remained a dynamic, centralized, complex organization
- 2. The Mughal dynasty and the empire itself became indisputably Indian
- 3. The Mughal rulers relied heavily upon the support of the Islamic religious establishment for legitimacy and political backing

Select the correct answer(s), using the code given below:

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

25. Regarding Shivaji's army, which one of the following statements is not correct?

- a) Shivaji army consisted of light cavalry
- b) It was most effective precisely at raids
- c) It had ability to take forts by storm, sapping, or mining
- d) The Maratha army was backed up by forts as places of refuge

26. Which one of the following groups of states were not annexed under the policy of Doctrine of Lapse?
- Satara and Jaipur
 - Nagpur and Udalpur
 - Punjab and Sikkim
 - Jhansi and Samabalpur
27. With reference to the Chamber of Princes, consider the following statements:
- As early as 1876, Lord Lytton had suggested the formation of an Indian privy council of Great Indian States
 - The authors of Montagu Chelmsford reform favoured the formation of a council of Princes
 - It was inaugurated in the year 1925
- Which of the statement(s) given above is / are correct?
- 1 and 2
 - 3 only
 - 1 and 3
 - All of them
28. With reference to the Pre Historic India, consider the following statements:
- Athirampakkam, Paiyyampalli and Gudiyam are important Palaeolithic sites in Tamilnadu.
 - The middle Palaeolithic phase was first identified by H.D. Sankalia
 - The tools became small in the middle Palaeolithic period
 - The upper Palaeolithic period is based on blade and bone tool technologies.
- Select the correct answers using the codes given below:
- 1, 2 and 3
 - 2, 3 and 4
 - 3 and 4
 - 1, 2, 3 and 4
29. Consider the following pairs;

| Culture / Period | Pottery |
|---------------------------------------|---------------------------------|
| 1. Indus civilization | Black-on-Red, Grey and Buffware |
| 2. Iron age in North India | Painted Greyware |
| 3. Mauryan Period | Northern Black polished ware |
| 4. Megalithic culture of Tamilnadu | Polished Black and Red ware |

Which of the pairs given above are correct?

- 1, 2 and 3
- 2 and 3
- All of them
- 1 and 4

30. Consider the following statements with reference to King Ashoka of Mauryan dynasty :

1. At Kanaganahalli, an inscription read 'Ranya Ashoka' refers to Ashoka
2. During his father's reign, Ashoka was stationed as Governor at Ujjani, and before that possibly at Taxila
3. The Second Buddhist council is supposed to have met under Ashoka's patronage at Pataliputra
4. Renouncing violence, adjuring war, and advocating the elusive but admirable concept of Dhamma, Ashoka turned statecraft on its head.

Which of the statements given above are correct?

- a) 1, 2 and 3
- b) 2, 3 and 4
- c) 1, 2 and 4
- d) All of them

31. Consider the following pairs

Terminology

- 1. Zimmis Non - Islamic group
- 2. Shariah Islamic Law
- 3. Zakat Islamic Income Tax
- 4. Waqf Endowment

Meaning

Which of the pairs are correctly matched?

- a) 1, 2 and 3
- b) 2, 3 and 4
- c) 2 and 3
- d) All of them

32. The subsidiary treaty of Lord Wellesley was negotiated on the following terms and conditions :

- a) The company was not to interfere in the internal affairs of the state
- b) The state need not to accept a British resident in its head quarters
- c) The state can employ Europeans in the service
- d) A bigger state was to maintain an army within its territories by native officers.

33. Which one of the following statements is not true with the Theosophical movement?
- It aims to work for universal brotherhood of humanity without any distinction
 - It believes that a special relationship can be established between a person's soul and God
 - It was established at Adyar, an outskirts of Madras
 - It came to be allied with Hindu Renaissance.
34. What were the measures not adopted by the Ghadr movement to establish a national republic in India?
- Procuring arms and Breaking Jails
 - Recruitment of youngmen and propogation of seditious literature
 - Formation of secret societies and destruction of Railways
 - Non interference in Indian military and police
35. With reference to Gandhi consider the following statements:
- Gandhi came to India on his own accord
 - The Khilafat movement was perceived by Gandhi as an opportunity to cement the bonds of Hindus and Muslims
 - Gandhi promised "Swaraj within one year", when he launched the Non-cooperation movement
 - His meteoric rise on the political scene was also facilitated by same accidents of history such as the death of stalwarts, Gokhale, Mehta and Tilak
- Which of the statement(s) given above is / are correct?
- 1 only
 - 2, 3 and 4
 - 1, 3 and 4
 - 1, 2 and 4
36. STATEMENT (A) : Sun rotates faster at the equator than at its poles
STATEMENT (B) : Sun rotates faster at the poles than at the equator
REASON (R) : Sun is a ball of gas/plasma
- A is true , B is false and R is not the reason
 - A is false , B is true and R is the reason
 - A is true , B is false and R is the reason
 - A is false and B is false
37. Teeth also consist of organic and inorganic materials, but unlike bone, once formed, dental enamel does not remodel. Consequently, in Forensic Science teeth are very useful for determining,
- How old a person is
 - Whether he had a particular diet
 - Where he lived in the years before his death
 - Where he was born and raised

38. Donna Strickland, the third woman scientist to get Nobel prize in Physics
The two other women scientists who got Nobel Prize in Physics are
- Marie Curie and Lise Meitner
 - Marie Curie and Maria Goeppert Mayer
 - Marie Curie and Irene Joliot Curie
 - Marie Curie and Frances H. Arnold
39. STATEMENT (A) : Smart textile uses textile keypads based on soft switching
REASON 1 (R1) : Soft switching functioning is based on integrated chip.
REASON 2 (R2) : Soft switching functioning is based on quantum tunneling composite
- A is true R1 is false R2 is false
 - A is true R1 is true R2 is true
 - A is false R1 is false R2 is true
 - A is true R1 is false R2 is true
40. PET scan images are due to
- Positron emitted by tumors in the body
 - Positron emitted by the radioactive tracers injected into the body
 - Photons formed due to annihilation of positron by the electron
 - 3D X-Ray
41. National Institute of Mental Health Rehabilitation Is established at
- Bengaluru
 - Chennai
 - Sehore
 - Hyderabad
42. India and Russia sign deal for
- Patriot missile
 - Tomahawk missile
 - S-400 missile
 - RS-28 Sarmat missile
43. The country where adultery is not a crime
- Pakistan
 - Philippines
 - Japan
 - United States of America
44. MD and CEO of INDIAN BANK
- Shikha Sharma
 - Chanda Kochhar
 - Arundhati Bhattacharya
 - Padmaja Chundru

45. Bill & Mellinda Gates Campaign award winner
- a) Dysmus Kisili
 - b) Nadia Murad
 - c) Amika George
 - d) Frances Arnold
46. PSLV-C42 Mission of ISRO launched two satellites of
- a) Israel
 - b) Russia
 - c) UK
 - d) Bangladesh
47. STATEMENT (A) : Air bag in a car will be effective in capturing the driver and cushioning the impact and exerts equal pressure on all parts of the body
STATEMENT (B) : Air bag is a substitute for seat belt
STATEMENT (C) : Seat belt exerts a larger pressure on smaller area of the body
- a) Statement A is true and B is false C is false
 - b) Statement A is true and B is true C is true
 - c) Statement A is false and B is true C is true
 - d) Statement A is true and B is false C is true
48. What is the full form of CITES?
- a) Convention on International Trade in Endangered Species
 - b) Convention on Indian Trade in Endangered Species
 - c) Convention on Intermingle Trade in endangered Species
 - d) None of the above
49. The ABEL prize is awarded for the outstanding personalities in the area of
- a) Physics
 - b) Chemistry
 - c) Medicine
 - d) Mathematics
50. James Webb Space Telescope to be launched by NASA in the year 2021 is
- a) X-Ray telescope.
 - b) Microwave Telescope
 - c) Visible range telescope
 - d) Infrared Telescope

51. Nominated members for the constitutional assembly are nominated by
- Rulers of the Indian princely states
 - Congress Party
 - Muslim League
 - Communist Party
52. What is the procedures required to be followed for the abolition of an existing legislative council in a state?
- The Rajya Sabha must pass a resolution to that effect
 - The state legislative assembly must pass a resolution to that effect by a special majority as prescribed in the constitution
 - Parliament must enact a law abolishing the legislative council
 - The state legislative assembly must pass a resolution ordinary majority as in the case of a bill
53. Which Article of the Indian constitution empowers the parliament to legislate on any matter of the state list?
- Art 115
 - Art 183
 - Art 221
 - Art 226
54. In India, if a religious sect/community is given "the status of a national minority", what special advantages it is entitled to?
- It can establish and administer exclusive educational institutions
 - The President of India automatically nominates a representative of the community to Lok Sabha
 - It can derive benefits from the Prime Minister's 15-Point Programme
- Which of the statement(s) given above is/are correct?
- 1 only
 - 2 and 3 only
 - 1 and 3 only
 - All of them
5. The authorization for the withdrawal of funds from the- Consolidated Fund of India must come from:
- The President of India
 - The Parliament of India
 - The Prime Minister of India
 - The Union Finance Minister

56. Which of the following are included in the original jurisdiction of the Supreme Court?
1. A dispute between the Government of India and one or more States
 2. A dispute regarding elections to either House of the Parliament or that of Legislature of a State
 3. A dispute between the Government of India and a Union Territory
 4. A dispute between two or more States
- Select the correct answers using the codes given below :
- a) 1 and 2
 - b) 2 and 3
 - c) 1 and 4
 - d) 3 and 4
57. What will follow if a Money Bill is substantially amended by the Rajya Sabha?
- a) The Lok Sabha may still proceed with the Bill, accepting or not accepting the recommendations of the Rajya Sabha
 - b) The Lok Sabha cannot consider the Bill further
 - c) The Lok Sabha may send the Bill to the Rajya Sabha for reconsideration
 - d) The President may call a joint sitting for passing the Bill
58. The abolition of the IAS and IPS has been recommended by the
- a) Dhebar Commission
 - b) Kelkar Commission
 - c) Kher Commission
 - d) Rajamannar Commission
59. When the annual Union Budget is not passed by the Lok Sabha
- a) the Budget is modified and presented again
 - b) the Budget is referred to the Rajya Sabha for suggestions
 - c) the Union Finance Minister is asked to resign
 - d) the Prime Minister submits the resignation of Council of Ministers
60. Under the Constitution of India, which one of the following is not fundamental duty?
- a) To vote in public elections
 - b) To develop the scientific temper
 - c) To safeguard public property
 - d) To abide by the Constitution and respect its ideals

66. Twin balance sheet refers to
- Balance sheets of corporate and banks
 - Balance sheets of RBI and corporate
 - Budget and balance sheet of corporate
 - Budget and balance sheet of RBI
67. The distinct feature of India's demographic dividend , working age/non working age population ratio
- Peaks at low and sustains for longer period
 - Peaks at high and sustains for longer period
 - Peaks at high and sustains for short period
 - Peaks at low and continues forever
68. The first company whose management was taken over by government to maintain investors confidence is
- Mayhtas
 - Sathyam
 - IL & FS
 - MCX
69. Deficit financing refers to
- Excess expenditure over receipt
 - Financing deficit
 - Deficit in capital account
 - Supply of money
70. Between 1961 -2011 per capital cereals and pulses have increased but per capital cereals and pulses availability have decreased due to which of the following:
- Net import of commodities
 - Seed requirements
 - Wastages
 - Farmers consumptions
- 1, 2 & 3
 - 2, 3 & 4
 - 1, 2 & 4
 - 1, 3 & 4

71. The highest ever value in HDI attained by any country is
- 0.971
 - 0.981
 - 0.955
 - 0.965
72. The capitalism giving emphasis to community is
- Gucci capitalism
 - Co-opt capitalism
 - Hybrid capitalism
 - Equi capitalism
73. Various poverty ratios and Indices developed by Sen are based on
- Absolute poverty line
 - Relative poverty line
 - OECD poverty line
 - USA poverty line
74. As per IMF study finds that for emerging economies 1° C increase in temperature, the agriculture growth will fall by
- 1.7%
 - 1.2%
 - 2.3%
 - 2.0%
5. SIP refers to investment in
- Shares directly
 - Shares indirectly
 - Commodities
 - Forex market

76. MUDRA bank loans are
- Direct loans
 - Refinance loans
 - Corporate loans
 - Agriculture loans
77. Total Fertility Rate (TFR) replacement level has been achieved by
- Kerala, Tamil Nadu, Maharashtra
 - Tamil Nadu, Kerala, Delhi
 - Kerala, Delhi, Andhra Pradesh
 - Kerala, Andhra Pradesh, Gujarat
78. The highest ever value India reached in Human development index is
- 0.596
 - 0.586
 - 0.612
 - 0.602
79. The period of economic consolidation and preparation for change in India occurred in
- 1950s
 - 1960s
 - 1970s
 - 1980s
80. Poverty gap means the difference between
- Poverty line and Relative poverty line
 - Relative poverty line and average consumer expenditure of poor
 - Poverty line and average consumer expenditure of poor
 - Poverty line and per capita GDP
81. Which among the following is the World's largest Wetland System?
- Camargue (France)
 - Okavango (Botswana)
 - Everglades (USA)
 - Pantanal

82. Which among the following terms of utmost significance in the dynamics of resource management was coined in the Brundtland Commission Report?
- Polluter-Pays Principle
 - Sustainable development
 - Inclusive Growth
 - Carrying Capacity
83. The Montreux Record is a register of :
- Invasive Alien Species and their ecological hazards outside their native environment
 - Wetland sites under the threat of anthropogenic activities
 - Endangered species of tropical and sub-tropical fauna
 - Coastal cities under direct threat of consequences of global warming
84. What award is presented to individuals or communities from rural areas who have shown extraordinary courage and dedication in protecting Wildlife by the GoI?
- Indira Gandhi Paryavaran Puraskar
 - Medini Puruskar Yojana
 - Amrita Devi Bishnoi Award
 - Pitambar Pant National Award
85. Which one of these Multilateral Environment Agreements (MEAs) is not correctly paired with the issue it deals with?
- Montreal Protocol of 1987 – Ozone Depleting Substances
 - Bonn Convention of 1979 – The conservation of Migratory Species
 - Basel Convention of 1989 – Regulation of Trans-boundary movement, Transit, handling and use of GMOs
 - Rotterdam Convention of 1998 – Trade in Hazardous Chemicals and Pesticides
- Recently scientists from Newcastle University, UK created world's first 3D printed
- Human lungs
 - Human cornea
 - Human skin
 - Human DNA

87. World Liver Day is observed on
- April 19
 - October 1
 - November 11
 - May 25
88. Which of these is part of the Vitamin B complex?
- Tocopherol
 - Niacin
 - Folic acid
 - Ascorbic acid
 - Pantothenic acid
- 1 and 4 only
 - 2 only
 - 1 and 3 only
 - 2, 3 and 5 only
89. UN's highest environment award, UN Champions of Earth Award for 2018 was awarded to?
- Bharat Vatwani
 - Nadia Murad and Dennis Mukwege
 - Jack Johnson and Li Bingbing
 - Narendra Modi and Emmanuel Macron
90. WAYU (Wind Augmentation Purifying Unit), an indigenous air pollution control device which was inaugurated in Delhi, was developed by
- CSIR-NEERI
 - CPCB
 - MoEF and CC
 - Oxymed
91. The Kani tribal settlements are present in the
- Mudumalai National Park
 - Mundanthurai National Park
 - Guindy National Park
 - Annamalai National Park

92. The MoEF and CC recently released 'India Cooling Action Plan' on the occasion of:

- a) World Environment day
- b) World Water day
- c) Earth day
- d) World Ozone day

93. Which among these is not an artificial non sugar sweetener?

- a) Saccharin
- b) Sucratose
- c) Sucrose
- d) Aspartame

94. World TB Day is observed on

- a) October 1
- b) November 11
- c) May 25
- d) March 24

95. Streptokinase is a drug given

- a) For breaking down blood clots
- b) For treating throat infection
- c) For controlling fungal infection
- d) For depression

96. Choose the correct answer:

I am older than you. _____?

- a) amn't I?
- b) don't I?
- c) didn't I?
- d) aren't I?

96. Choose the correct answer:
He would not have joined the army if he _____ that they would send him abroad.
- a) would know
 - b) was knowing
 - c) had known
 - d) had been knowing
97. Choose the word nearest in meaning to the given word: **Immunity**
- a) exemption
 - b) tolerance
 - c) disinclination
 - d) apathy
98. Choose the word that is most opposite in meaning to the given word:
Stringent
- a) Lenient
 - b) General
 - c) magnanimous
 - d) magniloquent
99. Match the following:
- | | | |
|----------------|---|--|
| A. Democracy | - | 1. Government run only by officials |
| B. Autocracy | - | 2. The rule of the people |
| C. Bureaucracy | - | 3. Government by nobility or elite |
| D. Aristocracy | - | 4. The rule by one person with unlimited power |
- A B C D
- a) 1 2 3 4
 - b) 2 4 1 3
 - c) 4 3 2 1
 - d) 1 2 4 3