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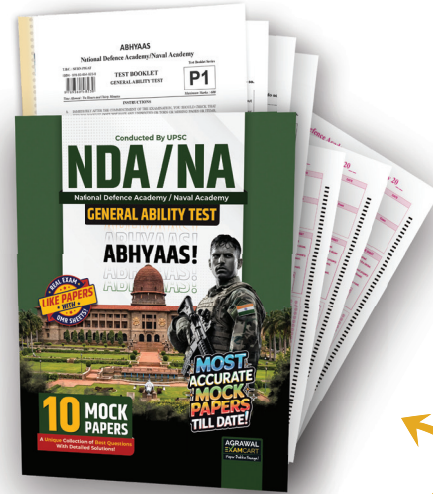
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EXAM PATTERN

PAPER II	GENERAL ABILITY TEST	TOTAL MARKS
Total No. of Questions	150	600
No. of English Questions	50	
No. of GS Questions	100	
Max. Marks for English	200	
Max. Marks for GS	400	
Marks for Correct Answer	4	
Negative Marking	1.33	
Duration of Exam	2.5 hour	

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ABHYAAS

National Defence Academy/Naval Academy

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Test Booklet Series

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TEST BOOKLET GENERAL ABILITY TEST



Time Allowed : Two Hours and Thirty Minutes

Maximum Marks : 600

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. **DO NOT** write *anything else* on the Test Booklet.
4. This Test Booklet contains 150 items (questions) in two parts : **PART-A** and **PART-B**. *Each item in PART-B is printed both in English*. Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
5. You have to mark all your responses **ONLY** on the separate Answer Sheet provided. See directions in the Answer Sheet. '
6. All items carry equal marks.
7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator **only the Answer Sheet**. You are permitted to take away with you the Test Booklet.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. **Penalty for wrong Answers :**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.
 - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to that question will be deducted as penalty.
 - (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
 - (i) If a question is left blank, *i.e.*, no answer is given by the candidate, there will be **no penalty** for that question.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

Space For Rough Work

English

Direction (Q. No. 1 to 10)

Each of the following items features one part of a sentence followed by four alternatives. Complete the sentence by choosing the correct alternative.

- The manager demanded :
(A) that the report is completed by Friday
(B) that the report be completed by Friday
(C) for the report to complete by Friday
(D) that the report was completed by Friday
- The chef prepared :
(A) the most delicious dish of all in the restaurant
(B) the more delicious than any dish in the restaurant
(C) the delicious dish of all in the restaurant
(D) the most delicious dish in the restaurant
- Given that it's already midnight :
(A) you must be awake
(B) you should have gone to bed by now
(C) you could be sleeping now
(D) you might be staying up
- The situation is critical, but :
(A) it should be more stable
(B) it could be managed
(C) it had been worse before
(D) it might be impossible
- One can never imagine how hot it gets in Delhi unless :
(A) one doesn't go there in person.
(B) one don't go there in person
(C) one goes there in person
(D) one goes there in person
- Someone :
(A) has left the lights on in the meeting room
(B) should have left the lights on in the meeting room
(C) have left the lights on in the meeting room
(D) would left the lights on in the meeting room
- What would you do ?
(A) if you were the president of your country?
(B) if you would be president of your country?
(C) if you was the president of your country?
(D) if you have been president of your country?
- If I were you :
(A) I shouldn't buy that house
(B) I wouldn't buy that house
(C) I weren't buying that house
(D) I mustn't buying that house
- I wish :
(A) I could support you
(B) I ought to support you
(C) I did support you
(D) I must support you

10. The performance of the team has been :

- (A) over the mark (B) out of the standard
(C) without the expectations (D) beyond satisfactory

Direction (Q. No. 11 to 15)

Each item in this section consists of a sentence with an underlined word followed by four words. Select the option that is nearest in meaning to the underlined word.

- I don't know why she wears these eccentric outfits.
(A) Expensive (B) Elegant
(C) Lavish (D) Bizarre
- These colours add a vivacious and fairy-like effect to my dress.
(A) gloomy (B) sparky
(C) repressed (D) impassive
- As the effect of anesthesia dissipated the patient regained consciousness.
(A) Returned (B) Disappeared
(C) Enhanced (D) Heightened
- He gave a large amount of donation for flood victims and everyone appreciated his magnanimous act.
(A) Vindictive (B) Chimerical
(C) Cherubic (D) Chivalrous
- Our locality has a common space for observing various national days and for organising festivals.
(A) witnessing (B) coordinating
(C) forming (D) celebrating

Direction (Q. No. 16 to 20)

Each item in this section consists of a sentence with an underlined word followed by four words or group of words. Select the option that is opposite in meaning to the underlined word.

- Competence is such a thing that is developed by hard work only.
(A) Incompetence (B) Non-competent
(C) Potential (D) Ability
- The list included many mundane, routine tasks.
(A) standard (B) temporal
(C) exceptional (D) customary
- When William gets angry, he starts to act like an imbecile.
(A) Cheerful (B) Intelligent
(C) Fierce (D) Pleasing
- Your views related to morality are outdated and puritanical.
(A) permissive (B) blasphemous
(C) prudish (D) orthodox
- I felt terribly jaded after working all weekend.
(A) refreshed (B) spent
(C) vigorous (D) gluttonous

Direction (Q. No. 21 to 25)

Given below are some idioms/phrases followed by four alternative meanings to each. Select the response (A), (B), (C), or (D).

21. Mincing walk
(A) Small and delicate steps (B) Big and large house
(C) Giant and huge garden (D) Show and tell arena
22. At the eleventh hour
(A) In the evening (B) In the morning
(C) At the last moment (D) At night
23. Make a beeline for
(A) To move directly towards something
(B) To put bees in a line
(C) To stand patiently in a queue
(D) To try and collect all the free items
24. To call the shots
(A) To call someone (B) To shoot someone
(C) To have control (D) To take pictures
25. In the nick of time
(A) The beginning of a month
(B) A special occasion
(C) At the last possible moment
(D) A long delay

Direction (Q. No. 26 to 30)

Each of the following items in this section consists of a sentence, the parts of which have been jumbled. These parts have been labelled P, Q, R, and S. Given below each sentence has four sequences, namely (A), (B), (C), and (D). You are required to rearrange the jumbled parts of the sentences and mark your response accordingly.

26. directive principles of state policy which though not justiciable are
P
fundamental to the governance of the country and it is the duty
Q
the Constitution lays down certain
R
of the state to apply these principles in making laws
S
(A) PQRS (B) QRPS
(C) RPQS (D) SPRQ
27. are evolving rapidly
P
the geo-political and geo-economic landscape
Q
where aspects related to application of military force
R
in a multipolar world is dynamic
S
(A) QRSP (B) QSRP
(C) SPRQ (D) SQRQ
28. international security, taking into account its national security interests and priorities
P
India has participated actively in multilateral forums
Q

relating to disarmament, non-proliferation and

- R
in the international security arena
S
(A) PQRS (B) SRPQ
(C) QPRS (D) QRPS
29. linked to the formal education system through
P
a close coordination with the
Q
children in the age group of 5-8 years are directly
R
Sarva Shiksha Abhiyan
S
(A) RPSQ (B) RPQS
(C) QSPR (D) QRPS
30. our spiritual heritage
P
and has become part of
Q
practised as part of healthy lifestyle
R
yoga is being
S
(A) PQRS (B) PRSQ
(C) SRPQ (D) SRQP

Direction (Q. No. 31 to 35)

Each of the following sentences has word (s) underlined. Read the sentence carefully and find which word class the underlined word (s) belong (s) to.

31. The scientist was highly regarded in her field due to her groundbreaking research.
(A) Adverb (B) Adjective
(C) Noun (D) Verb
32. We traveled to the mountains despite the heavy snowfall.
(A) Preposition (B) Conjunction
(C) Adverb (D) Verb
33. She was quite tired, yet she continued working late into the night.
(A) Adjective (B) Adverb
(C) Conjunction (D) Noun
34. They rarely visit this part of the country due to its remote location.
(A) Adjective (B) Adverb
(C) Noun (D) Verb
35. The announcement caused a significant change in the project's timeline.
(A) Noun (B) Verb
(C) Adjective (D) Adverb

Direction (Q. No. 36 to 45)

In this section, there is a passage that has some blank spaces, each with four words or a group of words. Select whichever word or group of words you consider the most appropriate for the blank space.

The Covid-19 pandemic has deeply affected people across the world. During these difficult (1) frontline workers have been at the highest risk as (2) have been stepping out to work daily (3) proper protective gear. An NGO reached out to people to (4) funds

to procure PPE kits, masks and sanitizers for (5) among the frontline workers. Several school children participated (6) this noble initiative. They collected old newspapers and books and (7) them to raise a good sum of money which was (8) used to buy kits. The children were happy to (9) and learnt how taking care of each other is very (10) in such challenging situations.

36. Select the most appropriate option to fill in blank no. 1.
 (A) time (B) timing
 (C) times (D) timings
37. Select the most appropriate option to fill in blank no. 2.
 (A) they (B) he
 (C) she (D) we
38. Select the most appropriate option to fill in blank no. 3.
 (A) with (B) after
 (C) beyond (D) without
39. Select the most appropriate option to fill in blank no. 4.
 (A) rising (B) raise
 (C) raising (D) rise
40. Select the most appropriate option to fill in blank no. 5.
 (A) allotment (B) spreading
 (C) distribution (D) diffusion
41. Select the most appropriate option to fill in blank no. 6.
 (A) along (B) beside
 (C) through (D) in
42. Select the most appropriate option to fill in blank no. 7.
 (A) funded (B) donated
 (C) sold (D) purchased
43. Select the most appropriate option to fill in blank no. 8.
 (A) timely (B) aptly
 (C) equally (D) exactly
44. Select the most appropriate option to fill in blank no. 9.
 (A) contribute (B) afford
 (C) enrich (D) devote
45. Select the most appropriate option to fill in blank no. 10.
 (A) serious (B) urgent
 (C) large (D) important

Direction (Q. No. 46 to 50)

In this section, you have a short passage. After the passage, you will find some items based on the passage. Read the passage carefully and answer the items based on it.

The term 'personalised learning' has been in vogue for a long time. Earlier, it referred to a one-to-one tutoring system, mostly for the privileged. Today, it refers to learning that prioritises an individual student's requirements and uses flexible instructional practices in terms of content, pace and materials. Learning need not be linear as, sometimes, learners may have to take a step back if not equipped with the necessary schemata to understand the content. The entire learning process becomes student-centric and the students are encouraged to design their own learning pathways.

Artificial Intelligence (AI) and Data Analytics play a major role in online and hybrid learning platforms, Globally, HEIs are introducing programmes where AI provides the platform to launch personalised learning. Technology provides a variety of materials in various formats to suit different students and monitor and assess their progress. However, it does not undermine the teacher's role. There are areas such as communication and collaborative skills, and emotional intelligence, which require human intervention. Therefore, the role of teachers in personalised learning remains as important as it is in traditional learning. AI can never replace educators; it can only enhance and support personalised learning by providing automated tasks, assessment platforms and feedback.

Many paths of study emerge and all ultimately merge with the curriculum's common learning outcome. Thus, the pattern of education becomes student-centric. This systemic change gives a new dimension to the teaching-learning process where teaching becomes counselling, and the teacher becomes a mentor. The students are motivated to take control of their learning and become autonomous.

46. The passage supports which of the following statements ?
 (A) Artificial Intelligence and Data Analytics enhance assessment platforms.
 (B) The pattern of education has become teacher-centric today.
 (C) Flexible instructional practices prioritise the learning objectives of the curriculum.
 (D) The role of teachers in personalised learning remains the same as in traditional learning
47. The most appropriate synonym of the word 'linear' is :
 (A) variable (B) ambiguous
 (C) continuous (D) rapid
48. What is the tone of the given passage ?
 (A) Sorrowful and sympathetic
 (B) Supportive and encouraging
 (C) Humorous and amusing
 (D) Outraged and angry
49. What is the best summary of the given passage ?
 (A) Student-centric learning engages students as a facilitator in their own learning.
 (B) Personalised learning is tailored to the individual needs of each student.
 (C) The role of teachers in personalised learning does not remain as important as it is in traditional learning.
 (D) Artificial Intelligence includes mimicking human cognitive activity and giving freedom to the students to study in a way that suits them partially.
50. Select an appropriate title for the given passage.
 (A) Student-Centric Pedagogy Fosters Learner Autonomy
 (B) Technology Formats to Assess Students Intellect
 (C) The Latest Trends of Content
 (D) Personalised Learning Aims at Teachers' Strength

General Knowledge

51. Identify the ancient site from the information given below :
This is an old site with caves and rock shelters. People chose these natural caves because they provided shelter from the rain, heat and wind. These rock shelters are close to the Narmada valley.
(A) Bhramagiri (B) Bhimbetka
(C) Inamgaon (D) Mehrgarh
52. Punch-marked coins from the 6th century BC onwards were made of silver and which of the following metals?
(A) Aluminium (B) Gold
(C) Copper (D) Zinc
53. Which of the following statements is correct?
I. Hampi was the capital of the Vijayanagara Empire.
II. In 1687, Mughal Emperor Aurangzeb annexed Golconda to the Mughal Empire.
(A) Only I (B) Only II
(C) Both I and II (D) Neither I nor II
54. The Vijayanagara Empire of South India was divided into four dynasties. Which of the following is not one of them?
(A) Saluva Dynasty (B) Tuluva Dynasty
(C) Sangam Dynasty (D) Chola Dynasty
55. Which one of the following historians described the Quit India Movement as a "spontaneous revolution"?
(A) Gordon Johnson (B) David Arnold
(C) F. G. Hutchins (D) Peter Robb
56. Europeans entered India with a mindset of trading only. This streak was initiated by which of the following European nations?
(A) Portuguese (B) Dutch
(C) British (D) French
57. Consider the following statements regarding Wellesley's rule :
1. During the six years of Wellesley's rule, 42.5 per cent of the total expenditure of the Company was for the army.
2. Wellesley's administrative measures were limited to the affairs of the Company and had nothing to do with the commercial and military affairs of the Indian ruling families. Which of the above is/are correct?
(A) Only 1 (B) Only 2
(C) Both 1 and 2 (D) Neither 1 nor 2
58. Which of the following statements is correct regarding the Lucknow Pact?
I. It was signed in the year 1916.
II. It was signed between the moderate and radical factions of Congress.
(A) Neither I nor II (B) Only I
(C) Only II (D) Both I and II
59. The Cabinet Mission Plan envisaged which of the following for India?
(A) Federation (B) Confederation
(C) Unitary Government (D) Union of States
60. Which freedom fighter was hanged for the Kakori conspiracy case ?
(A) Chittaranjan Das and Vasudev Balwant Phadke
(B) Krishnaji Gopal Karve and Baghajatin
(C) Ram Prasad Bismil and Ashfaqullah Khan
(D) Khudiram Bose and Chandrashekhar Azad
61. There are ___ hand gestures in Mohiniyattam which are mainly adopted from 'Hastalakshana Deepika' text.
(A) 28 (B) 24
(C) 20 (D) 18
62. Rani ki Vav of Queen's stepwell is a UNESCO World Heritage site located on the bank of river
(A) Saraswati (B) Kaveri
(C) Jhelum (D) Mahanadi
63. Krishna river flows through.....
(A) Maharashtra, Karnataka and Andhra Pradesh
(B) Gujarat, Karnataka, Maharashtra and Andhra Pradesh
(C) Maharashtra, Karnataka, Telangana and Andhra Pradesh
(D) Gujarat, Telangana, Maharashtra, Karnataka and Andhra Pradesh
64. Kadam Dam is situated at confluence of Kadam river and river.
(A) Sharavati (B) Godavari
(C) Kabini (D) Kaveri
65. Which of the following rivers originates in the Brahmagiri range of the Western Ghats?
(A) Tapti (B) Krishna
(C) Mahanadi (D) Kaveri
66. What obstructs the South-West monsoon winds which come from the Arabian Sea while flowing towards the Intertropical Convergence Zone ?
(A) Eastern Ghats (B) Western Ghats
(C) Aravalli Range (D) Great Himalayan range
67. In India, where are the glacial valleys known as 'Karewas' found?
(A) Sapta Koshi Valley (B) Jhelum Valley
(C) Alaknanda Valley (D) Teesta Valley
68. Identify the third layer of soil from top.
(A) Substratum weathered parent rock material
(B) Sub soil
(C) Unweathered parent bed rock
(D) Top soil

69. Which of the following statements regarding Regang soil is/are correct?
 1. It is light coloured, clayey and fertile soil.
 2. It developed on the Deccani basaltic lava due to hot and humid conditions.
 3. Cotton is widely cultivated in this soil.
 Select the answer using the code given below :
 (A) 1 and 2 (B) 2 and 3
 (C) Only 2 (D) Only 3
70. Which of the following mineral does not come under the category of non-metallic minerals ?
 (A) Mica (B) Limestone
 (C) Bauxite (D) Gypsum
71. Kolleru Lake is located in which of the following state ?
 (A) Kerala (B) Tamil Nadu
 (C) Andhra Pradesh (D) Karnataka
72. What is the new name of Wheeler Island?
 (A) Vikram Sarabhai Island (B) Satish Dhawan Island
 (C) Abdul Kalam Island (D) C.V. Raman Island
73. Which one of the following is not a part of the solar system?
 (A) Asteroid (B) Meteor
 (C) Moon (D) None of the above
74. Consider the following statements related to the International Date Line :
 1. It is approximately the 180° meridian which deviates slightly towards east and west to stay away from the landmass surrounded by the Atlantic Ocean.
 2. The date on the east side of this line is earlier (24 hours) than that on the west.
 Which of the statements given above is/are correct?
 (A) Only 1 (B) Only 2
 (C) Both 1 and 2 (D) Neither 1 nor 2
75. According to the geological time scale, there are two eras in the Quaternary period. What are they?
 (A) Pleistocene and Minoan
 (B) Recent and Pleistocene
 (C) Pleistocene and Pleistocene
 (D) Recent and Pleistocene
76. The line that separates crust from the mantle is known as _____.
 (A) Magma's discontinuity
 (B) Moho's discontinuity
 (C) Comp's discontinuity
 (D) Andnj's discontinuity
77. Salinity means the amount of salt (in grams) dissolved in how many grams of seawater?
 (A) 10000 grams (B) 1000 grams
 (C) 100 grams (D) 100 kilograms
78. The breaking up of the rocks on the earth's surface is called
 (A) desertification (B) conurbation
 (C) weathering (D) flacking
79. Which of the following pairs is correct?
 I. Stratosphere - Extends up to 80 km.
 II. Mesosphere - Extends up to 50 km.
 (A) Only I (B) Neither I nor II
 (C) Only I (D) Both I and II
80. What are the two types of ocean currents?
 I. Warm sea current
 II. Cool sea current
 (A) I only (B) Both I and II
 (C) Only II (D) Neither I nor II
81. El Nino is a phenomenon in which a warm ocean current that flows past the coast, in place of the cold current, every 2 to 5 years.
 (A) Peruvian (B) Chilean
 (C) Argentinian (D) Brazilian
82. The word 'cyclone' originates from the Greek word 'cyclos', which literally means?
 (A) Coil of fire (B) Coil of stone
 (C) Coil of snow (D) Coil of snake
83. Under Article 191 of the Constitution of India, a person shall be disqualified for being chosen as, and for being, a member of the Legislative Assembly or Legislative Council of a State if such person:
 Holds any office of profit under the Government of India.
 Holds any office of profit under the Government of any State.
 Choose the correct answer using the code given below:
 (A) 1 only (B) 2 only
 (C) Both 1 and 2 (D) Neither 1 nor 2
84. Who is considered the first law officer of the Government of India?
 (A) Attorney General (B) Chief Justice of India
 (C) Solicitor General (D) Law Minister
85. Which of the given Articles of the Constitution of India mentions the following :
 "There shall be a council of Ministers with the Prime Minister at the head to aid and advise the President who shall in the exercise of his functions, act in accordance with such advice."
 (A) Article 71 (2) (B) Article 74 (2)
 (C) Article 71 (1) (D) Article 74 (1)
86. In the context of the Indian Parliament, what is 'Zero Hour' called?
 (A) The time immediately after Question Hour
 (B) The time of the first half of the parliamentary proceedings
 (C) The time of the second half of the parliamentary proceedings

- (D) The time before Question Hour
87. The term of the Lok Sabha, unless dissolved is _____ from the date appointed for its first meeting
 (A) 6 years (B) 5 years
 (C) 4 years (D) 3 years
88. In which year the Union Territory of Lakshadweep was formed began Act of Parliament by integrating the island of Laccadive – Minicoy Aminditi Islands ?
 (A) 1974 (B) 1971
 (C) 1973 (D) 1972
89. Which of the following statements is not correct regarding the goals of the Second Five-Year Plan?
 (A) Development of basic and heavy industry sectors
 (B) Increase in national income to raise the standard of living
 (C) Expansion of the consumer goods sector
 (D) Expansion of employment opportunities
90. The age of the subscriber under Atal Pension Yojana (APY) should be between _____
 (A) 15-30 years (B) 18-40 years
 (C) 25-50 years (D) 40-60 years
91. Which of the following statements is not correct regarding the goals of the Second Five-Year Plan?
 (A) Development of basic and heavy industry sectors
 (B) Increase in national income to raise the standard of living
 (C) Expansion of the consumer goods sector
 (D) Expansion of employment opportunities
92. What is the amount of annual health cover a family gets under the 'Ayushman Bharat Scheme' of Government of India ?
 (A) ₹ 5 Lakh (B) ₹ 3 Lakh
 (C) ₹ 10 Lakh (D) ₹ 1 Lakh
93. "TRIPS (Trade-Related Aspects of Intellectual Property Rights) agreements are administered by whom?"
 (A) United Nations Conference on Trade and Development (UNCTAD)
 (B) United Nations Organization (UNO)
 (C) World Trade Organization (WTO)
 (D) World Bank (WB)
94. In any tennis game, if both players win three points each in a game (*i.e.* score is 40-40), then it's called a
 (A) deuce (B) equal
 (C) rattle (D) back
95. Which company's tagline is "Experience Certainty, Experience Energy"?
 (A) Tata Consultancy Services
 (B) Mercedes Benz
 (C) Adidas
 (D) Infosys
96. Which of the following decade was declared as International Water and Cleanliness Decade by the United Nations?
 (A) 1975-1984 (B) 1971-80
 (C) 1981-1990 (D) 1991-2000
97. The famous song 'Ae Mere Watan Ke Logon' was sung by Lata Mangeshkar as a tribute to the soldiers who died in the:
 (A) Sino-Indian War 1962 (B) Indo-Pak War 1971
 (C) Indo-Pak War 1965 (D) Kargil War of 1999
98. Which association was formed with the idea of forming an alliance of solar resource rich countries to cooperate to meet global energy requirements?
 (A) International Solar Association
 (B) International Solar Alliance
 (C) Solar Energy International
 (D) Solar Reserve International
99. Where was the first summit of SAARC held?
 (A) Dhaka (B) Islamabad
 (C) New Delhi (D) Colombo
100. Who among the following was the first to translate the Bhagavad Gita into English?
 (A) Charles Wilkins
 (B) Sir Alexander Cunningham
 (C) William Jones
 (D) James Prinsep

General Science

101. Humus, is a dark colored amorphous substance it is formed as a result of which process?
 (A) leaching (B) fragmentation
 (C) mineralization (D) humus building
102. The Units of Linear momentum are measured in _____.
 (A) $\text{Kg}^2 \text{ m / s}$ (B) kg m / s
 (C) kg m / s^2 (D) $\text{k}^2\text{g m / s}$
103. 1 pound is approximately equal to.....
 (A) 354.59 grams (B) 453.59 grams
 (C) 654.59 grams (D) 534.59 grams
104. Match the columns.
- | Column-A | Column-B |
|----------------------------|----------------------------|
| (i) Electric current | (a) Henry |
| (ii) Potential difference | (b) Farad |
| (iii) Capacitance | (c) Volt |
| (iv) Inductance | (d) Ampere |
| (A) i-a, ii-b, iii-c, iv-d | (B) i-a, ii-c, iii-b, iv-d |
| (C) i-d, ii-c, iii-b, iv-a | (D) i-b, ii-a, iii-c, iv-d |
105. The melting point of a solid is defined as:
 (A) the minimum temperature at which the solid melts to become liquid at a low pressure
 (B) the minimum temperature at which the solid melts to

- become liquid at the atmospheric pressure
 (C) the maximum temperature at which the solid melts to become liquid at atmospheric pressure
 (D) the minimum temperature at which the solid melts to become liquid at a high pressure
106. The Coriolis Force is caused by :
 (A) Sunlight (B) Tidal waves
 (C) Wind (D) Earth's rotation
107. If the uncertainty in position and momentum are equal, the uncertainty in velocity will be:
 (A) $\sqrt{\frac{h}{\pi}}$ (B) $\sqrt{\frac{h}{2\pi}}$
 (C) $\frac{1}{2m}\sqrt{\frac{h}{\pi}}$ (D) $\sqrt{\frac{h}{2\pi m}}$
108. By applying a force on an object of mass 6 kg, it accelerates from 6 m/s to 18 m/s in 3 sec. Find the magnitude of the force (in N).
 (A) 48 (B) 60
 (C) 24 (D) 96
109. In which year did Albert Einstein predict a new state of matter, the Bose – Einstein condensate (BEC), based on a quantum formulation by the Indian physicist Satyendra Nath Bose?
 (A) 1924 (B) 1919
 (C) 1935 (D) 1930
110. In 1932, who discovered the positron, a particle described as 'carrying a positive charge but having a mass of the same order of magnitude as that normally possessed by a free negative electron' ?
 (A) Carl Anderson (B) Ernest Rutherford
 (C) Niels Bohr (D) Paul Dirac
111. Which law of Newton provides a quantitative definition of force ?
 (A) Universal law of gravitation
 (B) First law of motion
 (C) Third law of motion
 (D) Second law of motion
112. Who among the following established a unit of horsepower that is equal to one horse doing 33,000 foot - pounds of work in one minute ?
 (A) James Watt (B) James Black
 (C) James Croll (D) James Dwight Dana
113. Which of the following equations is correct for one mole of gas?
 (A) $V_1/V_2 = T_1/T_2$ (at constant pressure)
 (B) $V_1/V_2 = \sqrt{T_1}/\sqrt{T_2}$ (at constant pressure)
 (C) $V_1/V_2 = T_1/T_2$ (at constant pressure)
 (D) $P_1/V_1 = P_2/V_2$ (at constant pressure)
114. The temperature of a coil is proportional to the n power times the current flowing through it, where n is equal to ?
 (A) -2 (B) -1
 (C) $+1$ (D) $+2$
115. Find the resistance (in mega Ω) of a wire whose length is 8 m, area of cross-section is 2 cm^2 and the material of which this wire is made has a resistivity of $120 \Omega\text{m}$.
 (A) 1920 (B) 4.8
 (C) 2.4 (D) 960
116. Which of the following is the right relationship between geometric length (L) and magnetic length (L_m) ? Brewster
 (A) $L_m = Lg$ (B) $L_m = \frac{6}{5} * Lg$
 (C) $L_m = \frac{5}{6} * Lg$ (D) $L_m = 2RY$
117. According to the law of reflection :
 (A) the angle of incidence is greater than the angle of reflection
 (B) the angle of incidence is less than the angle of reflection
 (C) the angle of incidence is always equal to the angle of reflection
 (D) Both the angles are always unequal
118. Given below are two statements, one is labelled of Assertion (A) and the other as Reason (R).
Assertion (A) : A solution of table salt in a glass of water is homogeneous.
(Reason) (R) : A solution having different composition throughout is homogeneous.
 Select the correct answer from the code given below.
Code :
 (A) (A) is false but (R) is true
 (B) (A) is true but (R) is false
 (C) Both (A) and (R) are true but (R) is not the correct explanation of (A)
 (D) Both (A) and (R) are true and (R) is the correct explanation of (A)
119. A sample of any of the following substances disappears after sometime when exposed to air like camphor, naphthalene or dry ice. This Phenomenon is called :
 (A) Sublimation (B) Evaporation
 (C) Diffusion (D) Radiation
120. Which one of the following is NOT correctly matched ?

(Substance)	(Use)
(A) Silver bromide	artificial
photosynthesis	
(B) Silver iodide	artificial rain
(C) Lithium	treatment of bicarbonate
	rheumatism
(D) Milk of Magnesia	antacid

121. Which of the following is NOT correctly matched ?
- | | |
|-----------------------------------|-------------------|
| (A) Acid present in vinegar | Acetic acid |
| (B) Compound present in bones | Calcium phosphate |
| (C) Souring of milk | Nitric acid |
| (D) Acid present in gastric juice | Hydrochloric acid |
122. Peeling of onions causes tears as onions release :
- | | |
|--------------------|-------------------|
| (A) Sulphonic acid | (B) Sulfenic acid |
| (C) Amino acid | (D) Carbolic acid |
123. Thermodynamically the most stable form of carbon is :
- | | |
|--------------|----------------|
| (A) Coal | (B) Fullerenes |
| (C) Graphite | (D) Diamond |
124. Which of the following is not correctly matched ?
- | |
|---|
| (A) Antifreeze compound – Ethylene glycol |
| (B) Antiknock agent – tetraethyl lead |
| (C) Antioxidant – β -Carotene |
| (D) Antibiotics – Quillin |
125. Gasohol is a mixture of :
- | | |
|---------------------------|--------------------------|
| (A) Gasoline and methanol | (B) Gasoline and Ethanol |
| (C) Gasoline and Propanol | (D) Methanol and ethanol |
126. The stench due to leakage from LPG cylinder is because of :
- | | |
|-------------|---------------------|
| (A) Methane | (B) Propane |
| (C) Butane | (D) Ethyl mercaptan |
127. Which one of the following pair is NOT correctly matched ?
- | | |
|---------------|--------------------|
| (A) Neoprene | Specialized rubber |
| (B) Aspartame | Synthetic sweetner |
| (C) Oxytocin | Hormone |
| (D) Rayon | Modified starch |
128. Match List-I with List-II and select the correct answer using the codes given below the Lists :
- | List-I | List-II |
|--------------------------|----------------------|
| (a) Freon | 1. Antiknock agent |
| (b) Tetraethyl lead | 2. Refrigerant |
| (c) Benzene hexachloride | 3. Fire extinguisher |
| (d) Carbon tetrachloride | 4. Insecticide |
- Code :**
- | | | | |
|-------|-----|-----|-----|
| (a) | (b) | (c) | (d) |
| (A) 1 | 2 | 3 | 4 |
| (B) 3 | 2 | 1 | 4 |
| (C) 4 | 1 | 2 | 3 |
| (D) 2 | 1 | 4 | 3 |
129. Which of the following substances is used to make utensils shine?
- | | |
|-------------------|----------------|
| (A) Alum | (B) Calomel |
| (C) Zinc chloride | (D) Zinc Oxide |
130. Three of the following four are examples of mamalia, and therefore form a group. Which is the one that does not belong to that group ?
- | | |
|----------------|--------------|
| (A) Penguin | (B) Platypus |
| (C) Flying fox | (D) Kangaroo |
131. Plants that do not have well-differentiated body design fall in this group. The plants in this group are commonly called algae. This group is _____ .
- | | |
|-------------------|------------------|
| (A) Pteridophytes | (B) Gymnosperms |
| (C) Bryophytes | (D) Thallophytes |
132. Which of the following statements is correct regarding 'Arthropoda' ?
- I. These animals are bilaterally symmetrical.
II. They have jointed legs.
- | | |
|----------------------|-------------------|
| (A) Only I | (B) Both I and II |
| (C) Neither I nor II | (D) Only II |
133. Which one of the following is a fungus ?
- | | |
|-----------------|-------------------|
| (A) Penicillium | (B) Spirogyra |
| (C) Amoeba | (D) Chlamydomonas |
134. Which of the following combinations is NOT correctly matched?
- | |
|------------------------------------|
| (A) Uricotelic-reptiles and birds |
| (B) Ammonotelic-aquatic animals |
| (C) Urotelic-terrestrial mammals |
| (D) Ammonotelic-cartilaginous fish |
135. Which unicellular organism acquires food by a process in which cells absorb external material by engulfing it with the cell membrane ?
- | | |
|---------------|------------|
| (A) Yeast | (B) Amoeba |
| (C) Spirogyra | (D) Volvox |
136. Name a reproductive strategy in which parasites take advantage of the care of other individuals of the same species or different species to raise their young.
- | | |
|----------------------------|-----------------------|
| (A) Competitive parasitism | (B) Klepto parasitism |
| (C) Brood parasitism | (D) Sexual parasitism |
137. Husk of a coconut is made of ___ tissue.
- | | |
|------------------|-----------------|
| (A) Xylem | (B) Parenchyma |
| (C) Sclerenchyma | (D) Collenchyma |
138. Which of the following statements is correct about endoplasmic reticulum ?
- I. It is a large network of membrane-bound tubes and sheets.
II. It is similar in structure to the plasma membrane.
- | | |
|----------------------|-------------------|
| (A) Neither I nor II | (B) Both I and II |
| (C) Only I | (D) Only II |
139. Which of the following area pair of barrel & shaped organelles located in the cytoplasm of animal cells near the nuclear envelope, which give orientation to the ' mitotic spindle ' formed during cell division ?
- | | |
|------------------|----------------|
| (A) Basal bodies | (B) Flagella |
| (C) Centrosomes | (D) Centricles |

140. Which of the following is NOT the correct match?

- (A) Mitochondria – Albert von Kolliker
- (B) Chloroplast – Altman
- (C) Ribosome – George E Palade
- (D) Lysosomes – Christian de Duve

141. Match column A with column B.

Column-A	Column-B
i. Power house of a cell	a. Plastid
ii. Kitchen of a cell	b. Mitochondria
iii. Suicidal bags of a cell	c. Nucleus
iv. Brain of a cell	d. Lysosomes

- (A) i-a, ii-b, iii-c, iv-d
- (B) i-b, ii-a, iii-c, iv-d
- (C) i-d, ii-b, iii-c, iv-a
- (D) i-b, ii-a, iii-d, iv-c

142. Why is the presence of air bubbles in the bloodstream dangerous for life ?

- (A) Air mixes with blood to form a complex
- (B) The flow of blood increases manifold
- (C) Obstruction occurs in the flow of blood
- (D) The blood pressure increases manifold.

143. Which part of the plant allows for the uptake of carbon dioxide and limits the loss of water due to evaporation ?

- (A) Lamina
- (B) Stipule
- (C) Stomata
- (D) Petiole

144. ISRO's proposed 'Sukrayan' mission is for the study of which planet ?

- (A) Mercury
- (B) Jupiter
- (C) Venus
- (D) Mars

145. What is the range of Brahmos equipped Sukhoi-30 in one go without mid air refueling ?

- (A) 1500 km
- (B) 3000 km
- (C) 2000 km
- (D) 1000 km

146. From which of the following cities does the National Remote Sensing Centre provide acquisition of data and its processing under satellite communication?

- (A) Chennai
- (B) Bengaluru
- (C) Hyderabad
- (D) New Delhi

147. Which of the following statement is correct concerning human eye ?

- (A) Eye lens focuses light on the retina
- (B) Pupil controls iris
- (C) Auditory system sends signals to the brain
- (D) Human eye has a concave lens

148. Why is sodium thiosulphate used in photography ?

- (A) reaction with light
- (B) Ability to make colors (colours)
- (C) tendency to oxidise
- (D) reducing behaviour

149. Which of the following elements is NOT suitable for the fabrication of a light emitting diode structure ?

- (A) Indium gallium nitride
- (B) Germanium
- (C) Gallium phosphide
- (D) Gallium arsenide

150. In which field was the Nobel Prize given to Einstein?

- (A) Theory of relationism
- (B) Principle of photoelectric effect
- (C) Theory of specific heat
- (D) Law of Brownian motion

□□

Space For Rough Work