

SSC-JE 2023
GENERAL AWARENESS & REASONING
PRELIMINARY EXAMINATION

GENERAL AWARENESS & REASONING
PREVIOUS YEARS OBJECTIVE
DETAILED SOLUTION
2004-2022



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PREFACE

There are so many variables to this Paper of SSC-JE that it becomes a nightmare situation for students to figure out any pattern, which they can work upon. Facts, reasoning, fundamentals, analytics, chronology, current, all come raining from various directions from subjects like History, Geography, Arithmetic, Economy, Polity, Culture, Life Sciences, General Knowledge, etc. But when the content is treated the way it is tested at SSC-JE, it dispels the darkness, and ushers in the light that leads you to the right direction.

IES Master '**SSC-JE General Awareness and Reasoning**' book is all about the right content arrived after distilling years of SSC-JE question papers from the past. Patient and persistent, as you read through the lines, phrases, and paragraphs, provided in the explanation to each and every question, your fear vanishes, giving you the handle to steer your preparation.

In doing so, you organize your knowledge, and you customize your preparation. With this clarity into the framework of SSC-JE, the revised and updated edition of this book, having **67 sets of Previous Years Questions and Detailed Solutions**, promises to help you appreciate the techniques and processes deployed by the Selection Commission, and helps you prepare in line with the desired level of exam.

Using smart learning techniques, IES Master Research & Development team has crafted a jewel in its effort to integrate and map the desired knowledge that is in synch with the exam trend. Right content keeps you motivated and helps you unlock your full potential whereby you draw upon a spirit that can withstand the pressure cooker like situation of the exam hall.

Having realized the self in shaping up to the competition, SSC-JE exam becomes just another exam.

IES Master Publication
New Delhi

EXAM PATTERN

PAPERS	MODE OF EXAMINATION	SUBJECT	NUMBER OF QUESTIONS	MAXIMUM MARKS	DURATION & TIMINGS
Paper-I Objective Type	Computer Base Mode	(i) General Intelligence & Reasoning	50	50	2 Hours
		(ii) General Awareness	50	50	Morning Shift
		(iii) General Engineering	100	100	Evening Shift
Paper-II Conventional Type	Written Examination	General Engineering (Civil and Structural / Mechanical / Electrical)		300	2 Hours

SYLLABUS

PAPER-I

General Awareness

Questions will be aimed at testing the candidate's general awareness of the environment around him/her and its application to society. Questions will also be designed to test knowledge of current events and of such matters of everyday observations and experience in their scientific aspect as may be expected of any educated person. The test will also include questions relating to India and its neighbouring countries especially pertaining to History, Culture, Geography, Economic Scene, General Polity and Scientific Research, etc. These questions will be such that they do not require a special study of any discipline.

General Intelligence & Reasoning

The Syllabus for General Intelligence would include questions of both verbal and non-verbal type. The test may include questions on analogies, similarities, differences, space visualization, problem solving, analysis, judgement, decision making, visual memory, discrimination, observation, relationship concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series etc. The test will also include questions designed to test the candidate's abilities to deal with abstract ideas and symbols and their relationships, arithmetical computations and other analytical functions.

General Engineering

Civil and Structural / Mechanical / Electrical

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1. One of the objectives of 1956 Industrial Policy Resolution was to control
 - (a) Misuse of electricity in industries.
 - (b) Migration of labour from agriculture to industry.
 - (c) Entry of private entrepreneurs in key and strategic industries.
 - (d) Flight of capital from domestic to foreign industries.
2. How many members are to be present in Lok Sabha to make complete the quorum?
 - (a) $\frac{1}{2}$ of the total members
 - (b) $\frac{1}{3}$ of the total members
 - (c) $\frac{1}{10}$ th of the total members
 - (d) $\frac{1}{4}$ th of the total members
3. Which is the strongest second chamber of the World?
 - (a) House of Lords (b) Senate
 - (c) Rajya Sabha (d) Duma
4. On which river is Pochampad project constructed?
 - (a) Krishna (b) Godavari
 - (c) Kosi (d) Tungabhadra
5. Which of the following volcano is known as the 'light-house of the Mediterranean'?
 - (a) Mt. Vesuvius (b) Mt. Pelee
 - (c) Mt. Stromboli (d) Mt. Fuji
6. Of the power stations at the following places which one is a nuclear power stations?
 - (a) Ramagundam (b) Tarapur
 - (c) Neyveli (d) Barauni
7. Which of the following cell phone service providers uses CDMA technology?
 - (a) Airtel (b) BPL
 - (c) Idea (d) Dolphin
8. Which from the ancient temples at the following places was built during the Chalukyan regime?
 - (a) Sanchi (b) Bhitragoan
 - (c) Bodhgaya (d) Badami
9. Identify the Navaratna Company among the following
 - (a) BSNL (b) LIC
 - (c) GAIL (d) Reliance Petroleum
10. When was the first air-conditioned train introduced in India?
 - (a) 1956 (b) 1948
 - (c) 1969 (d) 1975
11. In the private sector there are life insurance companies as joint ventures between Indian and foreign entities. Correlate the Indian entities with their partner foreign companies.

Indian entities

(a) ICICI	(b) Kotak Mahindra
(c) Tata	(d) HDFC

Foreign Companies

(1) Old Mutual	(2) AIG
(3) Prudential	(4) Standard and Life

(a)	(b)	(c)	(d)
(A) 2	3	4	1
(B) 1	4	3	2
(C) 4	2	1	3
(D) 3	1	2	4

12. Whose sales-lines is "Express yourself"?
- (a) Indian Express
(b) Airtel
(c) Raymond Suiting
(d) Fair and Lovely Cream
13. Which of the following space vehicle landed man on the Moon?
- (a) Apollo (b) Challenger
(c) Columbia (d) Explorer
14. Which of the following dances is always a solo dance?
- (a) Yakshagana (b) Ottam Thullal
(c) Odissi (d) Kuchipudi
15. What can be maximum number of persons authorized in a State Cabinet as per act recently passed?
- (a) 10% of the authorised strength of the MLAs and the MLCs.
(b) 15% of the serving MLAs
(c) 20% of the MLAs and the MLCs on the side of the ruling group.
(d) 15% of the authorised strength of the MLAs.
16. A ball is projected vertically upward. Its acceleration at the highest point is
- (a) Zero
(b) Directed upward
(c) Directed downward
(d) Directed sideways
17. Which one of the following cannot be used to measure time inside a satellite orbiting around the earth?
- (a) A pendulum clock
(b) Wrist watch
(c) Atomic Clock
(d) Electronic quartz clock
18. The 'paint red' lead is the suspension of
- (a) Lead monoxide (b) Lead dioxide
(c) Lead tetroxide (d) Lead trioxide
19. Penetrating power is least in case of
- (a) α - ray (b) β - ray
(c) γ - ray (d) x-ray
20. The metallic element of chlorophyll is
- (a) Copper (b) Magnesium
(c) Iron (d) Calcium
21. Normal level of glucose per 100 ml of human blood is
- (a) 80 – 120 mg (b) 100 – 140 mg
(c) 40 – 60 mg (d) 90 – 150 mg
22. Which one of the following gases can deplete the ozone layer in the atmosphere?
- (a) Methane (b) Carbon Monoxide
(c) Ammonia (d) Sulphur Dioxide
23. The coloured lights, most effective in photosynthesis, are
- (a) Blue and red
(b) Green and blue
(c) Yellow and green
(d) Yellow and orange
24. The plant introduced from the "new world" to "old world" is
- (a) Wheat (b) Potato
(c) Rice (d) Sugarcane
25. Which of the following is a source of direct tax revenue to the central Government?
- (a) Tax on Corporate Profits
(b) Excise Duties
(c) Sales Tax
(d) Customs Duties

ANSWER KEY

1. (c)	6. (b)	11. (d)	16. (c)	21. (a)
2. (c)	7. (*)	12. (b)	17. (a)	22. (a)
3. (b)	8. (d)	13. (a)	18. (c)	23. (a)
4. (b)	9. (c)	14. (b)	19. (a)	24. (b)
5. (c)	10. (a)	15. (d)	20. (b)	25. (a)

EXPLANATIONS

Sol-1: (c)

According to the Policy, 17 Industries such as arms and ammunition, atomic energy, iron and steel, heavy machinery, mineral oil, coal etc. would be set up only by the state.

Sol-2: (c)

Quorum is the minimum attendance of the members required for a proceeding of any house to begin. It is one tenth of the total strength of the House.

Sol-3: (b)

Senate of USA is the most Powerful Second Chamber in the World

Sol-4: (b)

Pochampadu dam, also called as Sri Ram Sagar project is multipurpose dam constructed across Godavari river and considered as a lifeline for north Telangana.

Other Major project on river Godavari are:

1. Gangapur Dam in Maharashtra
2. Jayakwadi Dam in Maharashtra
3. Babli Barrage in Maharashtra
4. Dowleshwaram Barrage in Andhra Pradesh
5. Dummugudem barrage in Telangana
6. Vishnupuri Barrage in Maharashtra
7. Sriram Sagar project in Telangana
8. Polavaram project in Andhra Pradesh

9. Kaleshwaram lift irrigation project in Telangana
10. Devadula irrigation scheme in Telangana
11. Icchampally project in Telangana
12. Sripada Yellampalli project in Telangana

Sol-5: (c)

Mt. Stromboli is the lighthouse of Mediterranean sea. It is one of the most active volcanoes in the world which has been in continuous eruption for the past 2000 years, which is the longest known in the world.

Mt. Vesuvius is a sommastrato volcano located on the Gulf of Naples in Italy.

Mt. Pelee is an active volcano on the Caribbean Island of Martinique.

Mt. Fuji is an active volcano about 100 kms south-west of Tokyo.

Sol-6: (b)

- Tarapur Atomic Power Station (TAPS) is located in Tarapur, Maharashtra. It was the first commercial nuclear power station built in India.
- Ramagundam, Neyveli, Barauni are thermal power stations.

Sol-7: (*)

Code Division Multiple Access (CDMA) is a sort of multiplexing that facilitates various signals to occupy a single transmission channel. It optimizes the use of available bandwidth. The technology is commonly used in ultra-high-