
TNPSC - MODEL QUESTION PAPER (PRELIMINARY EXAMINATION) FOR REVISED SYLLABUS PERTAINING TO THE RECRUITMENT OF POSTS INCLUDED IN COMBINED CIVIL SERVICES EXAMINATION - II / II A (GROUP - II/II A SERVICES) (RELEASED ON 01.11.2019)

The model question paper released by TNPSC for the forthcoming Group II & IIA exam. is excellent as it does not leave any doubt on answers given under each question. When we deeply analysed the questions, we were elated to find answers for 90% of the questions in our guide. The fact has been substantiated hereunder. What we strongly advise you, please don't just read, instead study deep. Some of the questions have been unearthed from the texts given in our guide (TNPSC Combined Group II & II A Guide). 10% of the questions have been asked on Current events.

To substantiate our claim, under each question of the model paper, we have given name of the chapters of our guide where you can find the answers. In the Aptitude and Mental ability section you can find all 25 questions either exactly or modelled with change of numbers.

1. What are the characteristics of "rote learning"?

- I) Does not allow the learner to associate himself/herself with the surroundings.
- II) Infuses rigidity in the thinking process.
- III) Allows the learner to dynamically adapt to the changes in the surroundings.
- IV) Improves the questioning ability.

Select the correct answer :

- A) (III) only
- B) (I) only
- C) (I), (II) and (IV) only
- ✓ D) (I) and (II) only

Explanation :

Rote learning is simply storing the data in the brain. It does not require any understanding of the subject conceptually. Rote learning is a memorisation technique based on repetition. The idea is that one will be able to quickly recall the meaning of the matter the more one repeats it.

Disadvantages of Rote learning :

- Easy to lose focus
- Does not allow for a deeper understanding of a subject.
- Does not allow the learner to associate himself/herself with the surroundings.
- No connection between new and previous knowledge
- Infuses rigidity in the thinking process

2. Which one of the following is the best anti-dote to superstitious beliefs ?

- ✓ A) Scientific Knowledge
- B) Scientific temper
- C) Untested and un-proven knowledge
- D) Strong faith in the long held ideas

Explanation :

Scientific Knowledge refers to a knowledge that is based on scientific methods which are supported by adequate validation. By imparting scientific knowledge in the right way, we can imbibe certain values in the young minds. On the other hand, Superstition is a belief or notion, not based on reason or knowledge of a particular thing, circumstance, occurrence etc. By inculcating the scientific knowledge in the minds of the people, the superstitious belief prevailing in our society can be eradicated.

3. What are the characteristics of "Scientific temper"?

- I) Questioning others' ideas irrespective of their social position.
- II) Analyzing others' opinions.
- III) Applying logic
- IV) In view of others' social position, accepting their ideas without questioning or analyzing them.

Select the correct answer :

- A) (I) and (II) only
- B) (II) and (III) only
- C) (IV) only
- ✓ D) (I), (II) and (III) only

Explanation :

Scientific temper refers to an attitude of logical and rational thinking which includes questioning, observing physical reality, analysing and communicating. Scientific temper describes an attitude which involves the application of logic.

In 1946 Pandit Jawaharlal Nehru used the phrase 'Scientific-temper'. He defined the phrase 'scientific temper' in his book 'Discovery of India' and also popularised it by repeatedly using in his speeches.

4. The reason behind the spectacular brilliance of diamonds and twinkling of stars is:

- ✓ A) Total internal reflection
- B) Total external reflection
- C) Partial reflection
- D) None of the above

Explanation :

When light travels from denser medium into a rarer medium, it gets refracted away from the normal. While the angle of incidence in the denser medium increases the angle of refraction also increases and it reaches a maximum value of ($r = 90^\circ$) for a particular value. This angle of incidence is called critical angle. The angle of incidence at which the angle of refraction is 90° is called the critical angle. At this angle, the refracted ray grazes the surface of separation between the two media. When the angle of incidence exceeds the value of critical angle, the refracted ray is not possible. Since $r > 90^\circ$, the ray is totally reflected back to the same medium. This is called as total

internal reflection. Thus, a ray of light bends away from the normal and undergoes total internal reflection. Total internal reflection is the main cause for the spectacular brilliance of diamonds and twinkling of stars.

Refer : Unit – Physics
Chapter – Light

5. **Assertion :** Some sea turtles (loggerhead turtles) return to their birth beach many decades after they were born to nest and lay eggs.

Reason : The turtles can perceive variations in magnetic parameters of Earth which memory helps them in returning to their homeland.

Select the correct answer :

- A) (A) is true, (R) is false.
✓ B) Both (A) and (R) are true and (R) is the correct explanation of (A).
C) (A) is false (R) is true.
D) Both (A) and (R) are true, but (R) is not the correct explanation of (A).

Refer : Unit – Physics
Chapter – Magnetism and Electro-magnetism

6. **If a single nail pricks our body, it is very painful. How it is possible for the people to lie down on a bed of nails and still remain unhurt?**

- A) Because the area of contact is the same.
B) Because the area of contact is less.
✓ C) Because the area of contact is more.
D) None of the above.

Refer : Unit – Physics
Chapter – Fluids

7. **When you go for a ride in a merry-go-round in amusement parks, you will experience an outward pull as merry-go-round rotates about the vertical axis. The reason for this is :**

- ✓ A) Centrifugal force
B) Centripetal force
C) Straight line force
D) Circular force

Explanation :

Force acting on a body away from the centre of circular path is called centrifugal force.

Example : When we go for a ride in a merry-go-round in amusement parks, we will experience on outward pull as merry-go round rotates about vertical axis. This is due to centrifugal force.

Refer : Unit – Physics
Chapter – Motion & Energy

8. **The element which is a constituent of chlorophyll and gives green colour to the leaf of plant is :**

- A) Sodium B) Copper
C) Potassium ✓ D) Magnesium

Explanation :

Magnesium plays a big role in the photosynthesis process, as it is a building block of the chlorophyll molecule, resulting in leaves appearing green.

Refer : Unit – Biology
Chapter – Nutrition in Plants and Animals

9. **Silver metal is a white lustrous metal. Over a period of time silver articles becomes black - Why ?**

- A) Carbon dioxide gas in atmosphere reacts with silver to form a black coating.
✓ B) Hydrogen sulphide gas preserved in atmosphere reacts with silver to form a black coating.
C) Silver reacts with moisture to form black coating.
D) Silver reacts with nitrogen to form silver nitride, which is black.

Explanation :

Over a period of time silver articles becomes black because its exposure with the air containing hydrogen sulfide.

Refer : Unit – Chemistry
Chapter – Chemical Reactions

10. **Which of the antibody that provides early diagnosis of Dengue and the virus which causes Dengue is called :**

- ✓ A) $I_g M$ and Flavivirus
B) $I_g G$ and Flavivirus
C) $I_g M$ and Togavirus
D) $I_g M$ and Alphavirus

Explanation :

Dengue virus is a member of the Flaviviridae family, along with yellow fever, west Nile, etc.

Dengue virus antibodies become detectable after the appearance of symptoms. **Antibodies of class $I_g M$** facilitate early diagnosis of Dengue.

Refer : Unit – Biology
Chapter – Nutrition & Health

11. **Under which category Penicillium does come?**

- A) Algae
✓ B) Fungus
C) Protozoa
D) Bacteria

Refer : Unit – Biology
Chapter – Classification of living organisms

12. **Which disease is transmitted through saliva and respiratory droplets ?**

- A) Mumps B) Measles
✓ C) Flu D) Small pox

Refer : Unit – Biology
Chapter – Nutrition and Health

13. **Which one of the following is considered as Chemical messengers ?**

- A) Enzymes B) Vitamins
C) Minerals ✓ D) Hormones

Refer : Unit – Biology
Chapter – Plant and Animal Hormones

14. **Imagine the following hypothetical situation :**
 I) Putting together all the plants of the plant kingdom on the Earth.
 II) Putting together all the animals of the animal kingdom on the Earth.
Thereafter weighing (I) and (II) separately
 A) (I) and (II) are of same weight
 B) (I) is heavier than (II)
 C) (II) is heavier than (I)
 D) None of the above

15. **The largest reservoir of phosphorus in the biosphere is**
 A) Atmosphere B) Rock
 C) Ocean D) Animal body

Explanation :

The largest reservoir of phosphorus in the biosphere is sedimentary rocks. It is here where the phosphorus cycle begins.

Refer : Unit – Geography

Chapter – Lithosphere

16. **Recently we read in newspapers about the GM crops. What is the full form of GM ?**
 A) Genetically Marketed
 B) Genetically Modified
 C) Green and Moisturous
 D) Globally Marketed

Refer : Unit – Biology

Chapter – Heredity

17. **The Nobel Prize (2019) for Economics has been awarded to Dr. Abhijit Banerjee and two others for their experimental approach to:**
 A) Eradicate black money.
 B) Strengthen the International Monetary Fund (IMF).
 C) Eradicate gender bias at work place.
 D) Alleviate global poverty.

Explanation :

Indian-American Abhijit Banerjee, his wife Esther Duflo and Michael Kremer jointly won the 2019 Nobel Economics Prize "for their experimental approach to alleviating global poverty." "The research conducted by this year's Laureates has considerably improved our ability to fight global poverty. In just two decades, their new experiment-based approach has transformed development economics, which is now a flourishing field of research," said the Nobel committee in a statement.

18. **The Tamil film "Asuran" is based on the acclaimed novel "Vekkai". The author of the novel "Vekkai" is :**
 A) Su. Venkatesan B) Konangi
 C) Poomani D) Choodamani

Explanation :

Poomani is a distinguished Tamil novelist and Sahitya Akademi Award recipient (for novel Agnaadi in 2014) who rose to fame in the late 1970s and early 1980s. Born in 1947, he published his first novel, Piragu, when he was just 19 years old. His second novel, Vekkai, was recently published as Heat in an English

translation by N Kalyan Raman. Asuran is a Tamil-language action drama film written and directed by Vetrimaaran based on the novel "Vekkai" by Poomani.

19. **The telephone number allotted for 24 hour "Women Helpline" in Tamil Nadu for immediate and Emergency response to women affected by violence is :**
 A) 108 B) 181
 C) 888 D) 208

Explanation :

Government of India has allocated short code 181 to Tamil Nadu as Women Helpline. Women Helpline is intended to provide 24 hours immediate and emergency response to women affected by violence and information about women related government schemes, programs across the country through a single uniform number.

20. **According to "The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013", sexual harassment includes :**
 I) Physical contact
 II) Making sexually coloured remarks
 III) Demanding sexual favours
 IV) Showing pornography
Which of the above is/are true ?
 A) (I) only
 B) (I) and (II) only
 C) (II) and (III) only
 D) All the above

Explanation :

The Sexual Harassment at Workplace (Prevention, Prohibition and Redressal) Act, 2013 has been enacted to protect women and safeguard her rights at workplace. In simple words, sexual harassment at workplace is an act or a pattern of behaviour that compromises physical, emotional or financial safety and security of a woman worker. Legally speaking, sexual harassment includes such unwelcome sexually determined behaviour as:

- physical contact and advances;
- a demand or request for sexual favours;
- sexually coloured remarks;
- showing pornography;
- any other unwelcome physical verbal or non-verbal conduct of sexual nature.

If the employer or the co-workers by any action or words or gesture create a hostile environment for a woman worker, it amounts to sexual harassment.

21. **Which one of the following is not the aim of 'Digital India' ?**
 A) Paperless governance
 B) Person less governance
 C) Encouraging intermediaries
 D) Cashless governance

Refer : Unit – Economy

Chapter – Some Important Social Welfare Schemes of Union government

22. **The port of India which has quick access to Suez Canal is :**
 A) Mumbai B) Kochi
 C) Chennai D) Kolkata

Explanation :

With the opening of the Suez Canal in 1869, Mumbai became the nearest Indian Port to Europe, a key advantage over other Indian ports. During Industrial revolution in England, Mumbai became the major channel through which Indian raw cotton was shipped to Europe.

Refer : Unit – Indian National Movement

Chapter – Effects of British Rule

23. Which State is called the "Fruit Bowl" ?

- A) Punjab ✓ B) Himachal Pradesh
C) Meghalaya D) Karnataka

Explanation :

Himachal Pradesh is known as "Fruit Bowl" of India. The state supplies pear, almond, citrus, raisins, apple, peach plum, walnut, grapes and mango.

24. Under which category of roads does the Zojila-Kargil road of India fall?

- A) National Highway
B) International Highway
✓ C) Border Road
D) State Highway

Refer : Unit – Geography

Chapter – Transport and Communication

25. "Rupay Card services" were launched by :

- ✓ A) National Payments Corporation of India
B) Reserve Bank of India
C) NITI Aayog
D) None of the above

Explanation :

Rupay is a card payment scheme launched by the National Payments Corporation of India on 26 March 2012.

Refer : Unit – Economy

Chapter – Banking

26. Which of the following is incorrectly paired ?

- A) NEFT – National Electronic Funds Transfer
B) IFSC – Indian Financial System Code
C) RTGS – Real Time Gross Settlement System
✓ D) ECS – Emergency Clearing System

Refer : Unit – Economy

Chapter – Banking

27. Who was the Chairman of Indian Space Research Organisation (ISRO) at the time of launch of Chandrayan-I ?

- A) Dr. Mayilsamy Annadurai
B) Dr. K. Sivan
✓ C) Dr. G. Madhavan Nair
D) Dr. K. Radhakrishnan

Explanation :

Chandrayaan-I, India's first mission to Moon, was launched successfully on October 22, 2008 from Sriharikota. The spacecraft was orbiting around the Moon at a height of 100 km from the lunar surface for chemical, mineralogical and photo-geologic mapping of the Moon. Mr. Madhavan Nair was the chairman of ISRO during Chandrayaan-1 launch in 2008. The spacecraft carried 11 scientific instruments built in India, USA, UK, Germany, Sweden and Bulgaria.

28. With which of the following is Arunachalam Muruganantham, an Inventor and Social Entrepreneur associated with ?

- A) Low cost electrical motor vehicle
B) Non-stop water motor
✓ C) Low cost sanitary napkin
D) Highly efficient solar batteries

Explanation :

Arunachalam Muruganantham is a social entrepreneur from Coimbatore in Tamil Nadu, India. He is the inventor of a low-cost sanitary pad-making machine and is credited for innovating grassroots mechanisms for generating awareness about traditional unhygienic practices around menstruation in rural India. His mini-machines, which can manufacture sanitary pads for less than a third of the cost of commercial pads, have been installed in 23 of the 28 states of India.

29. The Union Government is making efforts to connect the unconnected parts of the country. What is the name of the airport opened at Sikkim in the year 2018 as a part of such efforts ?

- A) Bagdogra ✓ B) Pakyong
C) Hubli D) Belagavi

Explanation :

Sikkim's first airport, Pakyong, was inaugurated by Prime Minister Narendra Modi on 24 September 2018. It is the first ever Greenfield airport in Northeast India which will be one of India's five highest-altitude airports, located at a height of 1,399 metres or 4,590 feet. The airport was constructed by the Airports Authority of India and previously, the nearest airport from Sikkim was located 124 km away in Bagdogra, West Bengal. The Pakyong airport is located around 60 km from the Indo-China border.

30. The "Green-Gold" Mission of Government of India is associated with the promotion of which one of the following ?

- A) Herbal Plants
B) Green Vegetables
✓ C) Bamboo
D) Green Corps

Explanation :

The expression "green gold" has been coined to refer to bamboo, because it is a miracle plant which is often placed in the category of grass product rather than forest product and matures faster than its other peers. According to the state of Environment report 2018, India is the world's second-largest cultivator of bamboo after China, with 136 species and 23 genera spread over 13.96 million hectares (Northeast is the home for over 60% of India's bamboo reserves).

31. In human races, which race is said to constitute "white people" ?

- A) Australoid Race
✓ B) Caucasoid Race
C) Mongoloid Race
D) Negroid Race

Refer : Unit – Geography

Chapter – Population Density and Distribution

32. The largest tribal group in India is :

- A) Nagas B) Todas
C) Santhals ✓ D) Gonds

Refer : Unit – Geography

Chapter – Population Density and Distribution

33. Identify the place in Tamil Nadu where Mangrove forest is absent :

- A) Pitchavaram
B) Kodiakkarai
C) Vedaranyam
✓ D) Mamallapuram

Refer : Unit – Development Administration in Tamil Nadu

Chapter – Geography of Tamil Nadu and its impact on Economic Growth

34. Which of the following is responsible for the continental climate of North India ?

- A) Vertical rays from the Sun.
B) Slanting rays from the Sun.
✓ C) Its location away from seas.
D) Its location on the plains.

Refer : Unit – Geography

Chapter – Atmosphere

35. The fast flowing river mouths have this landform :

- A) Delta ✓ B) Estuary
C) Alluvial Fan D) Meander

Refer : Unit – Geography

Chapter – River System in India

36. With which of the following countries does India share the longest border ?

- A) Myanmar ✓ B) Bangladesh
C) Pakistan D) Nepal

Refer : Unit – Geography

Chapter – Indian-location and physical features

37. Where does the river Kaveri break into two channels viz. Coleroon and Kaveri ?

- ✓ A) Mukkombu
B) Thiruverumbur
C) Thiruvanaikkaval
D) Thuraiyur

Refer : Unit – Geography

Chapter – River System in India

38. The new entity after the merger of Air India and Indian Airlines is called :

- A) National Aviation Company Ltd.,
✓ B) National Aviation Corporation of India Ltd.,
C) National Airways Company Ltd.,
D) Indian Airways Corporation.

Refer : Unit – Geography

Chapter – Transport and Communication

39. Which of the following statement/s is/are true in respect of Solar Eclipse ?

- I) It occurs on New Moon days, when the moon is between the Sun and the Earth. Thus, the Moon obscures a part of the Sun viewed from the Earth.
II) It occurs when the mythological 'Rahu' swallows the Sun.

Select the correct answer :

- A) (I) only B) (II) only
✓ C) Both (I) and (II) D) None of the above

Refer : Unit – Geography

Chapter – Solar System and the Earth

40. Which one of the following is not a precautionary measure that we should take before a cyclone?

- A) Going to high-lying areas from low-lying areas.
B) Jewels and documents to be kept in safe custody.
✓ C) Those residing in old buildings should remain there.
D) Battery-operated radio, torch lights, lamps, kerosene, match box should be kept safely for use.

41. Identify the metal which was used to make the dancing girl figurine of Harappan culture in Indus Valley civilization from the list given below ?

- ✓ A) Bronze B) Brass
C) Gold D) Iron

Refer : Unit – History and Culture of India

Chapter – Early India : From the Beginnings to the Indus Civilisation

42. Why is India called an " Ethnological Museum"?

- ✓ A) People of India belong to different genetic race.
B) People of India speak different languages.
C) India has different land forms.
D) People of India follow different religious.

Refer : Unit – History and Culture of India

Chapter – Unity in Diversity

43. Which among the following was the most important source of subsistence for the Harappans ?

- ✓ A) Agriculture B) Pottery
C) Craft production D) Trade

Refer : Unit – History and Culture of India

Chapter – Early India : From the Beginnings to the Indus Civilisation

44. In the "Darasuram" temple built by Rajaraja-II, incidents from which one of the following literatures are depicted in the form of miniatures in the walls of its sanctum sanctorum ?

- A) Kambaramayanam
B) Mahabharatham
✓ C) Periyapuram
D) Kandhapuranam

Refer : Unit – History & Culture of India

Chapter – Later Cholas and Pandyas