

WWW.JAGRANJOSH.COM

UPSC NDA Exam 2010-I General Studies Solved Paper



Part A

Directions (For the 8 items which follow): Each of the following items consists of a sentence followed by four words or group of words. Select the **synonym** of the word or group of words (occurring in the sentence in capital letters) as per the context.

- 1. The engineer ROUGHED OUT his ideas on a piece of paper while he talked.
 - (a) Shaped roughly
 - (b) Rejected
 - (c) Drew a quick plan
 - (d) Described inaccurately
- 2. He fell into an ABYSS of despair.
 - (a) Well
- (b) Deep pit
- (c) Sea
- (d) Hollow
- 3. He had the AUDACITY to interrupt the Governor of the State while the latter was addressing a gathering of academicians.
 - (a) Courage
- (b) Authority
- (c) Foolishness
- (d) Arrogance
- 4. After weeks of FRENETIC activity, the ground was ready for the big match.
 - (a) Strenuous
- (b) Hurried
- (c) Excited
- (d) Hectic
- 5. The students took COPIOUS notes during the lecture delivered by the visiting professor.
 - (a) Extensive
- (b) Exhaustive
- (c) Bounteous
- (d) Abounding
- 6. Very few people are IMPERVIOUS to criticism.
 - (a) Impenetrable
- (b) Unaffected
- (c) Unstoppable
- (d) Unmindful
- 7. The policemen kept on questioning the criminal but failed to ELICIT the truth.
 - (a) Evoke
- (b) Wrest
- (c) Obtain
- (d) Extort
- 8. Teaching in universities is now considered a LUCRATIVE
 - (a) Risky
 - (b) Profitable
 - (c) Honourable
 - (d) Undignified

Directions (For the 8 items which follow): Each of the following items consists of a sentence followed by four words. Select the antonym of the word (occurring in the sentence in capital letters) as per the context.

- He is a man of EXTRAVAGANT habits.
 - (a) Sensible
- (b) Careful
- (c) Economical
- (d) Balanced
- 10. They employ only DILIGENT workers.
 - (a) Unskilled
- (b) Lazy
- (c) Careless
- (d) Idle
- 11. His success in the preliminary examination made him COMPLACENT.
 - (a) Discontented
- (b) Self-satisfied
- (c) Curious
- (d) Militant
- 12. In this competition, he has become the VICTOR.
 - (a) Beaten
- (b) Frustrated
- (c) Disappointed
- (d) Vanquished
- 13. His behaviour at social gatherings is LAUDABLE.
 - (a) Condemnable
- (b) Impolite (d) Repulsive
- (c) Unpleasant
- 14. The characters in this story are not all FICTITIOUS.
 - (b) Factual (a) Common
 - (c) Real
- (d) Genuine
- 15. The RELUCTANCE of the officer was obvious.
 - (a) Eagerness
 - (b) Hesitation
 - (c) Enjoyment
 - (d) Unwillingness
- 16. He is a GENEROUS man.
 - (a) Stingy
- (b) Uncharitable
- (c) Selfish
- (d) Ignoble

Spotting Errors

Directions (For the 8 items which follow):

(i) In this section, a number of sentences are given. The sentences are underlined in three separate parts and each one is labelled (a), (b) and (c). Read each sentence to find out whether there is an error in any underlined part. No sentence has more than one error. When you find an error in any one of the underlined part (a), (b)



- or (c), indicate your response on the separate Answer Sheet at the appropriate space. You may feel that there is no error in a sentence. In that case, letter (d) will signify a 'No error' response.
- (ii) You are to indicate only one response for each item in your Answer Sheet. (If you indicate more than one response, your answer will be considered wrong). Errors may be in grammar, word usage or idioms. There may be a word missing or there may be a word which should be removed.
- (iii) You are not required to correct the error. You are required only to indicate your response on the Answer Sheet.

Examples 'P' and 'Q' have been solved for you.

- P. The young child (a)/ singed (b)/ a very sweet song. (c)/No error (d)
- Q. We worked (a)/ very hard (b)/ throughout the season. (c)/ No error (d)

Explanation:

In item P, the word 'singed' is wrong. The letter under this part is (b), so (b) is the correct answer. Similarly, for item Q, (d) is the correct answer, as the sentence does not contain any error.

- 17. Whenever a person lost anything (a)/ the poor folk around (b)/ are suspected. (c)/ No error (d)
- 18. Still impressive is that (a)/ we achieve this selective attention (b)/ through our latent ability to lip-read. (c)/ No error (d)
- 19. As I entered the famous gallery (a)/ my attention was at once drawn to the large sculpture in the corner. (c)/ No error (d)
- 20. Everyday before (a)/ I start work for my livelihood (b)/ I do my prayer. (c)/ No error (d)
- 21. Pooja went to her friend's house at the appointed hour; but (a)/ she was told (b)/ that her friend left half an hour earlier. (c)/ No error (d)
- 22. Rekha is (a)/ enough old (b)/ to get married. (c)/ No error (d)
- 23. As far as I am concerned, (a)/ I shall do everything (b)/ possible to help you. (c)/ No error (d)
- 24. The person in the seat of justice (a)/ should be absolutely partial (b)/ and not treat his nearest and dearest with favour. (c)/ No error (d)

Rearranging Parts of a Sentence

Directions (For the 8 items which follow): In the following items, some parts of the sentence have been jumbled up. You are required to rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence and mark in your Answer Sheet accordingly.

Example 'Z' has been solved for you.

Z. Some people belive that the effect /P is very bad /Q on children R/ of cinema /S

The correct sequence should be

(a) P-S-R-O

(b) S-P-Q-R (d) Q-S-R-P

(c) S-R-P-O

Explanation:

(a) P-Q-R-S

(c) P-R-Q-S

The proper way of writing the sentence is "Some people believe that the effect of cinema on children is very bad". This is indicated by the sequence P-S-R-Q and so (a) is the correct answer.

25.	We are doing to the people/P to give relief/Q all we can /R but more funds are needed/S					
	The correct sequence should					
	(a) P-Q-R-S	(b) R-Q-P-S				
	(c) Q-P-R-S	(d) S-P-O-R				

26. The man when he was /P in the office last evening /Q could not finish/R all his work /S
The correct sequence should be

(b) Q-R-S-P

(d) S-Q-P-R

(c) R-Q-P-S
(d) R-S-P-Q
27. The people decided they were going /P how much /Q to spend /R on the construction of the school building /S The correct sequence should be
(a) Q-P-R-S
(b) P-Q-R-S

28. The man said that those workers /P would be given a raise /Q who did not go on /R strike last month /S
The correct sequence should be

41-2-1-41	1	-				
c) Q-P-R-S			(d)	R-	S-F	-Q
a) P-Q-R-S			(b)	P-]	R-S	-Ç

29. I think the members /P are basically in agreement /Q of the group /R on the following points /S
The correct sequence should be

(a) R-Q-P-S (b) S-Q-R-P (c) P-R-Q-S (d) P-Q-S-R

30. While it was true that I had /P to invest in industry/Q some lands and houses /R I did not have ready cash /S
The correct sequence should be

	o onto ara be
(a) P-Q-R-S	(b) P-R-S-C
(c) S-Q-P-R	(d) Q-P-R-S

31. But for your help /P to finish this work /Q it would not have been possible /R in time /S

The correct sequence should be
(a) P-R-Q-S
(b) S-P-Q-R
(c) R-P-Q-S
(d) P-Q-R-S

32. The boy in the competition /P who was wearing spectacles /Q won many prizes /R held in our college /S The correct sequence should be

The correct sequenc	e should be
(a) P-Q-R-S	(b) R-P-S-Q
(c) Q-R-P-S	(d) O-P-S-R

Directions (For the 8 items which follow): Each of the following items is followed by four words or group of words. Fill in the blanks with the appropriate word or group of words.

33.	Although I was o because there was no one e (a) sceptical (c) fearful	f his plans, I encouraged him, else who was willing to help. (b) remorseful (d) excited
34.	You have no business to _person. (a) inflict (c) direct	pain on a weak and poor (b) put (d) force



- 35. Her uncle died in a car accident. He was quite rich. She all her uncle's money. suddenly
 - (a) succeeded
- (b) caught
- (c) gave
- (d) inherited
- 36. There was a major accident. The plane crashed. The did not see the tower. pilot
 - (a) likely
- (b) probably
- (c) scarcely
- (d) hurriedly
- a mile from home. 37. The car we were travelling in
 - (a) broke off
- (b) broke down
- (c) broke into
- (d) broke up
- 38. What are you ____ in the kitchen cupboard? (a) looking in
 - (b) looking on
 - (c) looking to
- (d) looking for

waiting for them, so I went

- 39. I did not see the point of _ home.
- (b) hang on
- (a) hanging around (c) hang together
- (d) hanging up
- of the deal at the last minute. 40. He lost confidence and
 - (a) backed out
 - (b) backed on
 - (c) backed down
 - (d) backed onto

Comprehension

Directions (For the 10 items which follow): In this section, you have two short passages. After each passage, you will find several questions based on the passage. First, read a passage and then answer the questions based on it. You are required to select your answers based on the contents of the passage and opinion of the author only.

Examples 'I' and 'J' have been solved for you.

PASSAGE (EXAMPLE)

In our approach to life, be it pragmatic or otherwise, a basic fact that confronts us squarely and unmistakably is the desire for peace, security and happiness. Different forms of life at different levels of existence make up the teeming denizens of this earth of ours. And, no matter whether they belong to the higher groups such as human beings or to the lower groups such as animals, all beings primarily seek peace, comfort and security. Life is as dear to a mute creature as it is to a man. Evem the lowliest insect strives for protection against dangers that threaten its life. Just as each one of us wants to live and not to die, so do all other

- I. The author's main point is that
 - (a) different forms of life are found on the earth
 - (b) different levels of existence are possible in nature
 - (c) peace and security are the chief goals of all living beings
 - (d) even the weakest creature struggles to preserve its life
- J. Which one of the following assumptions or steps is essential in developing the author's position?
 - (a) All forms of life have a single overriding goal
 - (b) The will to survive of a creature is identified with a desire for peace
 - (c) All beings are divided into higher and lower groups
 - (d) A parallel is drawn between happiness and life, and pain and death

Explanation:

- I. The idea which represents the author's main point is "peace and security are the chief goals of all living beings", which is response (c). So (c) is the correct answer.
- J. The best assumption underlying the passage is "The will to survive of a creature is identified with a desire for peace", which is response (b). So (b) is the correct answer.

PASSAGE I

When we talk of education in our present age, we think largely in terms of schools and colleges. The man who is well-to-do spends money in sending his son to foreign lands, in the belief that some wonderful process will take place there transforming a dull fellow into a genius. Yet the products of expensive schools and universities often fail to make good. On the other hand, the poor man who has struggled against adversity often earns the highest honour. The fact is that the true background of early education is the home. The home, the influence of the mother, the inspiring examples that are held before the child at an age while he is impressionable, are the true groundwork of character.

- 41. According to the passage, who helps in our character-building?
 - (a) A foreign university
 - (b) A well-to-do man
 - (c) Examples that inspire
 - (d) A man who has earned honour
- 42. The proper background of early education is
 - (a) a school
 - (b) a college
 - (c) a religious institution
 - (d) the home
- 43. From the passage, we get an impression that the highest honour is earned by
 - (a) a man who has received education in a foreign country
 - (b) a man who has struggled against adversity
 - (c) a man who has seen prosperity alone
 - (d) the son of a prosperous man
- 44. A well-to-do man sends his son to foreign lands
 - (a) because it is the fashion of the day
 - (b) in the belief that his dull son will be transformed into a
 - (c) so that the son may learn the customs of those countries
 - (d) in order to make his son familiar with the persons and places of those countries
- 45. The expression "the products of expensive schools and universities often fail to make good" means
 - (a) they fail to make a mark in life
 - (b) they fail to become intelligent
 - (c) they fail to earn proper living
 - (d) they do not earn good reputation

PASSAGE II

The functional declines of advancing age are depressing. The heart's ability to pump blood drops about one per cent: blood flow to arms and legs decreases by thirty to forty per cent in old age. The amount of air a person can exhale after a deep breath lessens and the chest wall stiffens with age. However, recent studies have shown that most of these



age-associated declines can be delayed by exercise. Exercise lowers the resting heart-rate and increases the amount of blood pumped with each beat in older people. When stress in placed on bones through exercise, calcium content rises, with the result that resistance to fracture is improved.

- 46. Old age is generally a depressing period because
 - (a) old people worry more than others
 - (b) old people tend to regret their past
 - (c) various organs of the body function less efficiently
 - (d) old people do very little work
- **47.** The strength of bones can be increased by exercise, because it
 - (a) increases the amount of blood pumped by the heart
 - (b) increases calcium content in bones
 - (c) increases the amount of air exhaled by a person
 - (d) lessens the stiffness of the chest wall

- 48. The word 'exhale' means
 - (a) breathe in
 - (b) breathe out
 - (c) breathe slowly
 - (d) breathe fast
- **49.** Which one of the following statements is correct?
 - (a) Exercise delays natural decay of old age
 - (b) Old age problems increase due to exercise
 - (c) Exercise increases the heart-beat which is dangerous
 - (d) Exercise creates stress which is harmful to bones
- 50. The chest wall becomes stiff in old age, because
 - (a) the heart's ability to pump blood to it drops about one per cent
 - (b) the blood flow to various organs decreases
 - (c) the resting heart-rate becomes high
 - (d) the person's ability to exhale sufficient air lessens

Part B

Directions: The following **seven** (7) items consist of two statements, Statement I and Statement II. You are to examine these two statements carefully and select the answers to these items using the code given below:

Code:

- (a) Both the statements are individually true and Statement II is the correct explanation of Statement I.
- (b) Both the statements are individually true but Statement II is **not** the correct explanation of Statement I.
- (c) Statement I is true but Statement II is false.
- (d) Statement I is false but Statement II is true.
- Statement I: Coalition in India is always a post-poll phenomenon.
 - **Statement II:** The United Progressive Alliance was formed after the Lok Sabha Election of 2004.
- 52. Statement 1: The Constitution of India is a liberal Constitution.
 - **Statement II:** It provides Fundamental Rights to individuals.
- Statement I: In order to create linguistic provinces in India, the Congress Party constituted Motilal Nehru Committee in 1928.
 - **Statement II:** The Motilal Nehru Committee suggested creation of linguistic provinces in India.
- 54. Statement I: During the day, winds blow from sea to land.
 - **Statement II:** The land gets more heated than the surrounding sea, hence lower pressure develops over land as compared to sea.
- **55. Statement I:** Winds are deflected to their right in the northern hemisphere and to their left in the southern hemisphere.
 - Statement II: The Earth's axis is inclined.
- **56. Statement I :** Pressure gradients determine the velocity of winds.
 - **Statement II:** When isobars (lines of equal atmospheric pressure) are closely spaced, the wind velocity would be gentle.

- 57. Statement I: Temperatures of countries like United Kingdom, Norway, the Netherlands and Denmark are higher as compared to places located on similar latitudes during the winter.
 - **Statement II:** United Kingdom, Norway, the Netherlands and Denmark are located on the coast.
- **58.** Consider the following statement and identify with the help of the code given below the Viceroy who made the statement and when:

In my belief, Congress is tottering to its fall and one of my great ambitions while in India is to assist it to a peaceful demise.

Code:

- (a) Lord Curzon, in a letter to the Secretary of States in 1900
- (b) Lord Curzon, while announcing the partition of Bengal
- (c) Lord Dufferin, during the farewell speech at Calcutta
- (d) Lord Minto, while addressing the Muslim delegation which met him at Shimla in 1906
- 59. The Copenhagen Summit for Climate Change, 2009 saw
 - (a) an agreement among the participants over CO₂ emission
 - (b) unanimity of views among the developed and BASIC bloc of countries
 - (c) rise of African countries as a bloc
 - (d) acceptance of the US as a leader to attain the objective of the Copenhagen Summit
- 60. Consider the following paragraph and identify with the help of the code given below the writer referred to therein: She is the winner of the Sahitya Akademi Award, the Jnanpith Award and is also India's first Principal Prince Claus laureate. One of the most celebrated writers of contemporary Indian literature, she is noted for her novels which include The Mothe-Eaten Howdah of the Tusker, Pages Stained with Blood and The Man from Chinnamasta. Code:

(a) Anita Desai

- (b) Indira Goswami
- (c) Mahasweta Devi
- (d) Chitra Mudgal



- 61. Consider the following paragraph and identify with the help of the code given below the Church referred to therein: Considered as one of the best examples of baroque architecture in India, this World Heritage Monument is dedicated to Infant Jesus. It houses the sacred relics of St. Francis Xavier, the patron saint, who died in 1552.
 - Code :
 - (a) Santa Cruz Basilica
- (b) St. Francis Church
- (c) Church of the Holy Cross(d) Basilica of Bom Jesus
- 62. Ms. Reena Kaushal Dharmshaktu is the first Indian woman
 - (a) to reach Antarctica
 - (b) pilot inducted in Indian Air Force
 - (c) to ski to the South Pole
 - (d) to win the gold medal in Asian Boxing Championship
- **63.** Which one among the following is the latest milestone of Doordarshan, the public broadcaster of India?
 - (a) Launch of enrichment/cultural channel—DD Bharati
 - (b) Launch of 24 hours news channel—DD News
 - (c) Launch of sports channel—DD Sports
 - (d) Formation of Prasar Bharati (Broadcasting Corporation of India)
- **64.** START (Strategic Arms Reduction Treaty) is a treaty between/among
 - (a) China and Japan
 - (b) USA and Russia
 - (c) USA and European Union
 - (d) China, India, USA and Russia
- **65.** Which one of the following is **not** a member of BASIC bloc of countries?
 - (a) South Africa
- (b) China
- (c) India
- (d) Australia
- 66. Which of the following is/are instance(s) of violation of human rights?
 - 1. A person was detained by the security forces while going for casting vote in Parliamentary Election.
 - 2. A civilian was killed by the army while undertaking combing operation.

Select the correct answer using the code given below: *Code*:

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 67. Consider the following paragraph about one of the prominent personalities of India and identify him/her using the code given below:

One of the founder members of the Progressive Artists Group, he/she painted several important series of paintings like the Mahabharata and Ramayana, Christ and the Lamb, Peace Doves, Women with Roosters and Mother Teresa. He/She made a symbolic film, Through the Eyes of a Painter, which won him/her the Golden Bear Award at the Berlin Film Festival.

Code:

- (a) Dhiraj Choudhaury
- (b) Satish Gujral
- (c) M.F. Hussain
- (d) Amrita Shergil
- **68.** Operation Vajraprahar is the joint counter-terrorism exercise between Indian Army and
 - (a) US Army
- (b) Chinese Army
- (c) Russian Army
- (d) Nepalese Army

- 69. The notion of saptanga that was introduced in Arthashastra includes
 - (a) kings, territory, administration and treasury
 - (b) music, dance, ragas and wrestling
 - (c) ministers, civil servants, subalterns and those involved in espionage
 - (d) aristocrats, acharyas, traders and monks
- **70.** The immediate cause of the revival of human rights in post-Second World War period was
 - (a) massive loss of lives in the War
 - (b) nuclear bombing of Hiroshima and Nagasaki by the Americans
 - (c) growing knowledge of brutal atrocities of Nazis over the Jews
 - (d) emergence of Soviet Union as a Superpower
- 71. Which one of the following with regard to the Poona Pact, 1932 is *not* correct?
 - (a) Adequate representation of depressed sections in government jobs
 - (b) Reservation of seats for the depressed classes in the provincial lagislature
 - (c) Acceptance of joint electorate system
 - (d) Reservation of seats for the depressed classes in the central legislature
- 72. The Government of India Act, 1935 was based on
 - (a) the principle of federation and parliamentary system
 - (b) the principle of secession of the British Indian provinces
 - (c) acceptance of independence of India
 - (d) acceptance of the idea of a constituent assembly to draft a constitution
- 73. Which of the following statements with regard to freedom struggle are correct?
 - The British rule could prevail in India on the basis of the consent or acquiescence of many sections of Indian people.
 - 2. The social basis of the colonial regime was among the Zamindars and upper classes.
 - 3. The Indian National Army forced the British to withdraw from India.
 - 4. The *Hindu Mahasabha* supported the partition of India. Select the correct answer using the code given below :

Code:

- (a) 1 and 2
- (b) 2 and 3
- (c) 3 and 4
- (d) 1, 2, 3 and 4
- 74. Which one of the following statements with regard to 'Direct Action Day' is correct?
 - (a) Hasan Suhrawardy presided over the 'Direct Action Day'
 - (b) 'Direct Action' took place in Delhi
 - (c) 'Direct Action Day' led to the Bihar riot
 - (d) 'Direct Action' was endorsed by the Congress Party
- 75. Planning in India drew on
 - (a) the New Economic Programme of Lenin
 - (b) the Fabian Socialism of Sidney and Beatrice Webb
 - (c) the British welfare mechanism
 - (d) new democratic development packages
- **76.** The Haripura Congress (1938) remains a milestone in Indian freedom struggle, because
 - (a) it declared war on the British Empire
 - (b) it anointed Jawahar Lal Nehru as the future Prime Minister of India



- (c) of the introduction of the idea of a planning commission
- (d) of the acceptance of the Government of India Act, 1935 by the Congress
- 77. The Constitution (93rd Amendment) Act deals with
 - (a) local self-government
 - (b) extension of reservation in educational institutions
 - (c) basic structure of the Constitution of India
 - (d) appointment of judges in the Supreme Court of India
- **78.** Which of the following statements is/are *not* violative of the principle of federalism?
 - 1. The President of India takes over administration of provinces under the emergency provisions.
 - The Parliament of India has exclusive power to make any law with respect to any matter not enumerated in the Concurrent List or State List.
 - The distribution of powers between the Union and Provinces is done through three different lists enumerated in the Constitution of India.

Select the correct answer using the code given below: Code:

- (a) 1 and 2
- (b) 2 and 3
- (c) 3 only
- (d) 1 and 3
- 79. Public Interest Litigation (PIL) may be linked with
 - (a) judicial review
- (b) judicial activism
- (c) judicial intervention
- (d) judicial sanctity
- In Hind Swaraj, Mahatma Gandhi was critical of railways, because they are
 - 1. carriers of plague germs
 - 2. instruments for frequency of famines
 - 3. responsible for creating class division in the society
 - 4. accident-prone

Select the correct answer using the code given below : *Code* :

- (a) 1, 2 and 3
- (b) 1 and 2
- (c) 2 and 3
- (d) 1 and 4
- **81.** Mahatma Gandhi and Rabindranath Tagore did *not* define India as a 'nation', because they were
 - (a) appreciative of cultural divisiveness
 - (b) opposed to the idea of homogeneity
 - (c) supportive of 'oneness'
 - (d) critical of hegemonic culture
- 82. Socialism refers to
 - (a) State-controlled economy
 - (b) liquidation of the bourgeoisie
 - (c) removal of peasantry from administration
 - (d) establishment of military dictatorship
- 83. According to Karl Marx, attainment of communism is possible only after
 - (a) resolution of tension between the leader and led
 - (b) completion of permanent revolution
 - (c) emergence of exploitation-free society
 - (d) disappearance of difference between urban and rural
- 84. India's 'Look East Policy'
 - 1. was articulated during the reign of H.D. Deve Gowda as India's Prime Minister
 - 2. is directed towards South-East Asian countries

- 3. is about controlling terrorism
- 4. seeks to develop a bond among various countries on the basis of economic cooperation

Select the correct answer using the code given below:

Code:

- (a) 1 and 2 (c) 2 and 4
- (b) 2 and 3 (d) 3 and 4
- 85. Cloudy nights are warmer than clear nights because of
 - (a) greenhouse effect
 - (b) depletion of ozone layer
 - (c) insolation
 - (d) terrestrial radiation
- **86.** Match List-I with List-II and select the correct answer using the code given below the Lists:

	List-I (Landform)		List-II (Agent of erosion/deposition)
A.	Inselbergs	1.	River
B.	Stalagmite	2.	Glacier
C.	Delta	3.	Underground water
D.	Moraines	4.	Wind

Code:

	Α	В	C	D
(a)	4	2	1	3
(b)	3	1	2	4
(c)	1	2	3	4
(d)	4	3	1	2

- **87.** If it is 12 noon in a city located on 90° W longitude, what would be the time in a city located on 105° W longitude?
 - (a) 13:00 hours
- (b) 12:30 hours
- (c) 11:30 hours
- (d) 11:00 hours
- **88.** As we proceed from equator to poles, the daily range of temperature tends to
 - (a) decrease
- (b) increase
- (c) be constant
- (d) fluctuate
- 89. Doldrums are characterized by
 - (a) uniform low pressure
- (b) uniform high pressure
- (c) high wind velocity
- (d) low humidity
- 90. Glaciated regions are associated with
 - (a) V-shaped valley
- (b) U-shaped valley
- (c) sand dunes
- (d) stalactites
- **91.** Which one of the following is generally found in sedimentary rocks?
 - (a) Basalt
- (b) Silica
- (c) Shale
- (d) Magnesium
- 92. The interval between two high tides is approximately
 - (a) 4 hours
- (b) 6 hours
- (c) 12 hours
- (d) 24 hours
- 93. Xerophytes thrive in
 - (a) hot and arid condition
- (b) cool and wet condition
 - (c) hot and wet condition
- (d) cool and arid condition
- 94. Biodiversity is highest in
 - (a) Tundra zone
- (b) Prairie zone
- (c) Torrid zone
- (d) Tropic zone
- 95. Which of the following statements is/are correct?
 - 1. Lunar eclipse takes place when the Earth comes directly between the Sun and the Moon



- 2. Solar eclipse happens when the Moon comes directly between the Sun and the Earth
- 3. Lunar eclipse takes place when the Sun comes directly between the Earth and the Moon
- 4. Solar eclipse happens when the Earth comes directly between the Sun and the Moon

Select the correct answer using the code given below:

- (a) 1, 2 and 3
- (b) 3 and 4
- (c) 1 and 2
- (d) 2 only
- 96. Iron ore from Kudremukh is most likely to be exported through
 - (a) Goa
- (b) Kochi
- (c) Mangalore
- (d) Ennore
- 97. Match List-I with List-II and select the correct answer using the code given below the Lists:

***************************************	List-I (Type of vegetation)		List-II (State)
Α.	Mangrove	1.	Madhya Pradesh
В.	Scrub	2.	Karnataka
C.	Teak	3.	Rajasthan
D.	Coniferous	4.	Arunachal Pradesh

Code:

	Α	В	C	D
(a)	4	1	3	2
(b)	2	1	3	4
(c)	4	3	1	2
(d)	2	3	1	4

- 98. Arrange the following States on the basis of ascending dates of the onset of monsoon:
 - 1. Uttar Pradesh
- 2. West Bengal
- 3. Kerala
- 4. Rajasthan

Select the correct answer using the code given below:

Code:

- (a) 2, 3, 1, 4
- (b) 3, 2, 1, 4
- (c) 3, 1, 2, 4
- (d) 1, 2, 3, 4
- 99. Which of the following are west flowing rivers?
 - 1. Krishna
 - 2. Narmada
 - Mahanadi
 - 4. Sabarmati

Select the correct answer using the code given below:

- (a) 2 and 4
- (b) 1 and 3
- (c) 1 and 4
- (d) 2 and 3
- 100. Which of the following statements are correct?
 - 1. In a cyclone, the area of low pressure is at the centre surrounded by the areas of high pressure
 - 2. In a cyclone, the areas of low pressure surround the area of high pressure
 - 3. In an anti-cyclone, the area of high pressure is surrounded by the areas of low pressure
 - 4. In an anti-cyclone, the area of low pressure is surrounded by the areas of high pressure

Select the correct answer using the code given below:

Code:

- (a) 1 and 2
- (b) 1 and 3
- (c) 1 and 4
- (d) 2 and 4
- 101. Which part of brain controls fine movement, maintains balance and equilibrium of the body and muscle tone in a human being?
 - (a) Cerebrum
- (b) Thalamus
- (c) Cerebellum
- (d) Hypothalamus
- 102. Leishmania, the causative agent of kala-azar, multiplies asexually by
 - (a) budding
 - (b) binary fission
 - (c) multiple fission
 - (d) sporogony
- 103. Administering a vaccine provides protection by inducing synthesis of antibodies (proteins) specific of the vaccine. The cell in the body responsible for the production of antibodies is
 - (a) granulocyte
 - (b) lymphocyte
 - (c) erythrocyte (red blood cell)
 - (d) platelet
- 104. Biological catalysts in living organisms are known as
 - (a) hormones
- (b) vitamins (d) enzymes
- (c) steroids
- 105. To which one of the following types of organism do
 - mushrooms belong? (a) Algae
- (b) Ferns
- (c) Fungi
- (d) Lichens
- 106. Among the following elements, which one is essential for the transmission of impulses in the nerve fibre?
 - (a) Calcium
- (b) Iron
- (c) Sodium
- (d) Zinc
- 107. Cure to spinal injury is likely to emerge from
 - (a) gene therapy
 - (b) stem cell therapy
 - (c) xenograft
 - (d) transfusion
- 108. Food wrapped in newspaper is likely to get contaminated with
 - (a) lead
- (b) aluminium
- (c) iron
- (d) magnesium
- 109. Which one among the following produces seeds but not flowers?
 - (a) Cashew nut (c) Groundnut
- (b) Coffee (d) Pine
- 110. Which among the following is not a true fruit? (b) Date
 - (a) Apple
- (d) Plum
- (c) Grape
- 111. 'Pitch' is a characteristic of sound that depends upon its
 - (a) intensity
 - (b) fequency
 - (c) quality
 - (d) None of these
- 112. The ratio of the focal length of the objective to the focal length of the eyepiece is greater than one for
 - (a) a microscope
 - (b) a telescope
 - (c) both microscope and telescope
 - (d) neither microscope nor telescope

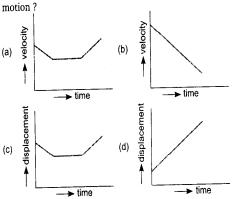


- **113.** The effective resistance of three equal resistances, each of resistance *r*, connected in parallel, is
 - (a) 3/r
- (b) r/3 (d) r^3
- (c) 3r
- 114. A fan produces a feeling of comfort during hot weather, because
 - (a) our body radiates more heat in air
 - (b) fan supplies cool air
 - (c) conductivity of air increases
 - (d) our perspiration evaporates rapidly
- 115. Which one of the following statements is correct?
- (a) Only electrons reside inside the nucleus of an atom
 - (b) Both electrons and protons reside inside the nucleus of an atom
 - (c) Only neutrons reside inside the nucleus of an atom
 - (d) Both protons and neutrons can reside inside the nucleus of an atom
- 116. The ratio of velocity of X-rays to that of gamma rays
 - (a) is < 1
 - (b) is > 1
 - (c) is 1
 - (d) depends upon the ratio of their frequencies
- **117.** Which one of the following pairs of rays is electromagnetic in nature ?
 - (a) Beta rays and gamma rays
 - (b) Cathode rays and X-rays
 - (c) Alpha rays and beta rays
 - (d) X-rays and gamma rays
- 118. The magnetic lines of force due to the bar magnet
 - (a) intersect inside the body of the magnet
 - (b) intersect at neutral points only
 - (c) intersect only at north and south poles
 - (d) cannot intersect at all
- 119. The specific resistance of a conducting wire depends upon
 - (a) length of the wire, area of cross-section of the wire and material of the wire
- (b) length of the wire and area of cross-section of the wire but not on the material of the wire
 - (c) material of the wire only but neither on the length of the wire nor on the area of cross-section of the wire
 - (d) length of the wire only but neither on the area of cross-section of the wire nor on the material of the wire
- 120. When X-rays are produced
 - (a) heat is generated at the target
 - (b) heat is absorbed at the target
 - (c) the temperature of the target remains constant
 - (d) brilliant light is seen at the target
- **121.** Which one of the statements given below is *not* correct?
 - (a) A vertical plane passing through the axis of a freely suspended magnet is called the magnetic meridian
 - (b) A vertical plan passing through the axis of rotation of the Earth is called the geographical meridian
 - (c) The degree to which the magnetic field can penetrate a medium is known as the relative permeability of the medium
 - (d) The relative permeability is not a dimensionless quantity
- **122.** If an object is placed at the centre of curvature of a concave mirror, the position of the image is

- (a) at the principal focus
- (b) between the principal focus and the centre of curvature
- (c) at the centre of curvature
- (d) beyond the centre of curvature
- 123. The radius of curvature of a plane mirror
 - (a) is zero
 - (b) is infinity
 - (c) can be anywhere between zero and infinity
 - (d) None of the above
- **124.** A coin in a beaker filled with water appears raised. This phenomenon occurs because of the property of
 - (a) reflection of light
 - (b) refraction of light
 - (c) total internal reflection of light
 - (d) interference of light
- **125.** A ray of light falls on a transparent glass plate. A part of it is reflected and a part is refracted. The reflected and refracted rays can be perpendicular to each other for
 - (a) angle of incidence equal to 90°
 - (b) angle of incidence equal to zero
 - (c) only one angle of incidence
 - (d) more than one angle of incidence
- 126. A man with a dark skin, in comparison with a man with a white skin, will experience
 - (a) less heat and less cold
 - (b) less heat and more cold
 - (c) more heat and less cold
 - (d) more heat and more cold
- **127.** Which one among the following denotes the smallest temperature?
 - (a) 1° on the Celsius scale
 - (b) 1° on the Kelvin scale
 - (c) 1° on the Fahrenheit scale
 - (d) 1° on the Reaumur scale
- **128.** A particle oscillates in one dimension about the equilibrium position subject to a force $F_x(x)$ that has an associated potential energy U(x). If k is the force constant, which one of the following relations is true?
 - (a) $F_{\nu}(x) = -kx^2$
 - (b) $F_{r}(x) = -kx$
 - (c) $U(x) = \frac{1}{2}k$
 - (d) $U(x) = \frac{1}{2}k^2x$
- **129.** When a body moves with simple harmonic motion, then the phase difference between the velocity and the acceleration is
 - (a) 0°
- (b) 90°
- (c) 180°
- (d) 270°
- **130.** A body is thrown vertically upwards and then falls back on the ground. Its potential energy is maximum
 - (a) on the ground
 - (b) at the maximum height
 - (c) during the return journey
 - (d) both on the ground and at the maximum height
- **131.** Which one of the following pairs does *not* have the same dimension?



- (a) Potential energy and kinetic energy
- (b) Density and specific gravity
- (c) Focal length and height
- (d) Gravitational force and frictional force
- 132. Which one of the following graphs represents uniform



- **133.** How many sixty watt (60 W) bulbs may be safety used in a 240-V supply with 4-ampere fuse ?
 - (a) 4
- (b) 8
- (c) 12
- (d) 16
- **134.** A vessel contains oil (density ρ_1) over a liquid of density ρ_2 ; a homogeneous sphere of volume V floats with half of its volume immersed in the liquid and the other half in oil. The weight of the sphere is

- (a) $V(\rho_2 \rho_1)/2$
- (b) $V(\rho_2 + \rho_1)g / 2$
- (c) $V(\rho_2 + \rho_1)$ (d) $V(\rho_2 + \rho_1)/2$ 135. For a simple pendulum in simple harmonic motion, which
 - of the following statements is/are correct?

 1. The kinetic energy is maximum at the mean position.
 - 2. The potential energy is maximum at the mean position.
 - 3. Acceleration is maximum at the mean position. Select the correct answer using the code given below:
 - Code:
 (a) 1 only
- (b) 2 only
- (c) 1 and 3
- (d) 2 and 3
- 136. The metal atom, which is present in superphosphate, is
 - (a) sodium (Na)
- (b) potassium (K)
- (c) calcium (Ca)
- (d) magnesium (Mg)
- **137.** The best and the poorest conductors of heat are respectively
 - (a) silver (Ag) and lead (Pb)
 - (b) copper (Cu) and aluminium (Al)
 - (c) silver (Ag) and gold (Au)
 - (d) copper (Cu) and gold (Au)
- **138.** Which one among the following metals is more reactive than hydrogen?
 - (a) Mercury
- (b) Copper
- (c) Silver
- (d) Tin
- 139. The number of neutrons in $_{13}\mathrm{Al}^{27}$ is
 - (a) 40
- (b) 27
- (c) 14
- (d) 13

Directions: The following four (4) items are based on the Table given below. You are to match List-I with List-II, List-III and List-IV, and select the correct answer using the code given below:

	List-I (Element)		List-II (Property)		List-III (Property/Composition)	8	List-IV (Property/Composition)
۸	Diamond	1.	Thermosetting polymer	I.	Rigid structure	i.	Non-conductor of heat
A. B.	Graphite	2.	Monomer	II.	Sheet-like structure	ij.	Ester
	Rayon	3.	Soft	III.	Cellulose	iii.	Conductor of heat
C. D.	Nylon	4.	Viscose process	IV.	Soft on heating	iv.	Ether
J. 3.	Carbon fibre	5.	Synthetic fibre	V.	Unreactive	v.	Silk-like thread
3. 7.	Polyvinyl chloride	6.	High strenght	VI.	Corrosion	vi.	Spacecraft
Ĵ.	Terylene	7.	Thermoplastic	VII.	Melts instead of burning	vii.	Chlorine atom replaces hydrogen atom
i. I.	Bakelite	8.	Polyester fibre	VIII.	Ethylene glycol	vii.	Cross-linked
		9.	Hardest natural substance	IX.	Phenol and formaldehyde	ix.	Terephthalic acid
14	0. List-I		st-II List-III	List-IV	V (c) E (d) F		6 VI vi 3 VI Iv

140. List-I (a) A (b) B (c) A (d) B	List-II 9 3 9	List-III I IV I I	List-IV i iv ii v
141. List-I (a) C (b) D (c) C (d) D	List-II	List-III	List-IV
	4	II	i
	5	VII	v
	6	V	vi
	5	II	iv
142. List-I	List-II 6 7	List-III	List-IV
(a) E		I	vi
(b) F		IV	ix

(c) E (d) F	6 3	VI VI	vi Iv
143. List-I	List-II	List-III	List-IV
(a) G	8	I	ix
(b) H	4	IV	iii
(c) G	8	VIII	ix
(d) H	1	VI	viii

- 144. Which one of the following is a transition metal?
 (a) Aluminium (Al) (b) Manganese (Mn)
 - (a) Aluminium (Al) (c) Magnesium (Mg)
- (d) Calcium (Ca)
- **145.** Which one of the following gases, present in the air near the surface of the Earth, has maximum concentrations?

UPSC NDA Exam 2010-I General Studies Solved Paper



(a) Oxygen (O₂)

(b) Hydrogen (H_2)

(c) Nitrogen (N_2)

(d) Methane (CH_4)

146. Which one of the following elements will replace hydrogen from acids to form salts?

(a) Sulphur (S)

(b) Silicon (Si)

(c) Zinc (Zn)

(d) Phosphorus (P)

147. Which of the following represent a chemical change?

1. Magnetization of iron

2. Condensation of liquid

3. Burning of fuel

4. Rusting of iron

Select the correct answer using the code given below :

Code:

(a) 1 and 2

(b) 2 and 3

(c) 3 and 4

(d) 1 and 4

148. Which one among the following is the correct order of reactivity of the elements?

(a) Cu > Mg > Zn > Na

(b) Na > Zn > Mg > Cu

(c) Cu > Zn > Mg > Na

(d) Na > Mg > Zn > Cu

149. Vinegar is produced from

(a) ethanoic acid (c) methanoic acid

(b) valeric acid

(d) butanoic acid

150. Match List-I with List-II and select the correct answer using the code given below the Lists:

	List-I	***************************************	List-II
٩.	Ozone gas	1.	Combines with haemoglobin
В.	Nitrous oxide		Ultraviolet radiation
C.	Carbon dioxide	3	Component of air in small quantity
D.	Carbon monoxide	4.	Visible radiation
		5.	Infrared radiation

Code:

ABCD

ABCD

(a) 1 4 5 3 (c) 1 4 3 2

(b) 2 3 5 1 (d) 2 5 3 1



Answers: General Studies

1	(c)	51	(b)
2	(c)	52	(d)
3	(a)	53	(d)
4	(d)	54	(a)
5	(b)	55	(b)
6	(b)	56	(a)
7	(d)	57	(a)
8	(c)	58	(a)
9	(c)	59	(a)
10	(b)	60	(b)
11	(a)	61	(d)
12	(d)	62	(c)
13	(a)	63	(b)
14	(c)	64	(b)
15	(a)	65	(d)
16	(b)	66	(c)
17	(b)	67	(c)
18	(c)	68	(a)
19	(d)	69	(a)
20	(c)	70	(c)
21	(c)	71	(a)
22	(b)	72	(a)
23	(b)	73	(a)
24	(b)	74	(a)
25	(b)	75	(a)
26	(d)	76	(c)
27	(a)	77	(b)
28	(b)	78	(b)
29	(c)	79	(b)
30	(c)	80	(d)
31	(c)	81	(d)
32	(c)	82	(a)
33	(a)	83	(c)
34	(a)	84	(c)
35	(d)	85	(c)
36	(b)	86	(d)
37	(b)	87	(d)
38	(d)	88	(a)

101	(c)
102	(b)
103	(b)
104	(d)
105	(c)
106	(c)
107	(b)
108	(a)
109	(d)
110	(a)
111	(b)
112	(b)
113	(b)
114	(d)
115	(d)
116	(c)
117	(d)
118	(d)
119	(c)
120	(a)
121	(d)
122	(c)
123	(a)
124	(b)
125	(d)
126	(d)
127	(d)
128	(b)
129	(b)
130	(b)
131	(b)
132	(d)
133	(d)
134	(b)
135	(a)
136	(c)
137	(a)
138	(d)



39	(a)	89	(a)
40	(a)	90	(b)
41	(c)	91	(c)
42	(d)	92	(c)
43	(b)	93	(a)
44	(b)	94	(b)
45	(a)	95	(a)
46	(c)	96	(c)
47	(b)	97	(c)
48	(b)	98	(b)
49	(a)	99	(a)
50	(d)	100	(b)

1	i
139	(c)
140	(d)
141	(b)
142	(a)
143	(c)
144	(b)
145	(c)
146	(c)
147	(c)
148	(d)
149	(a)
150	(b)
•	•