B-JGT-J-HL

GENERAL KNOWLEDGE

| Time Allowed : Three Hours | Maximum Marks : 300 |

INSTRUCTIONS

Candidates should attempt ALL questions.

The number of marks carried by each question is indicated at the end of the question.

Answers must be written in ENGLISH only.

1. Answer any *seven* of the following in less than 100 words each :   7×10=70

   (a) Comment on Jeans and Jeffrey's "Tidal Hypothesis" on the origin of the Solar System.

   (b) Distinguish between 'continental crust' and 'continental rise'.

   (c) Comment on the formation and features of a 'hanging valley'.

   (d) Distinguish between 'bajada' and 'hamada' landforms.

   (e) Comment on cyclone 'Aila' and its effects.

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(f) What is the theory of demographic transition ?

(g) Distinguish between 'dew' and 'dew point'.

(h) Describe the 'Coriolis force'.

(i) Comment on the Tundra biome.

2. Answer any *four* of the following in less than 50 words each : 4×5=20

(a) Distinguish between 'katabatic' winds and 'chinook' winds.

(b) Distinguish between 'drainage density' and 'drainage patterns' as applied to streams.

(c) What are the major types of forests in the Indian subcontinent ?

(d) List the processes that initiate ocean currents and influence their speed and direction.

(e) What are the terms 'wagon turnaround' and 'operating ratio' in the context of the Railways ?

3. On the outline map of India provided separately, mark the location of the following National Parks/Wildlife Sanctuaries : *10×1=10*

   (a) Bandipur

   (b) Dudhwa

   (c) Kaziranga

   (d) Keoladeo Ghana

   (e) Dachigam

   (f) Namdapha

   (g) Nalsarovar

   (h) Simlipal

   (i) Vedanthangal

   (j) Periyar

   (Important note : Remember to attach your map-sheet securely to your answer-book, after answering the question. Please do not write your Roll number or name on the map-sheet).

4. Answer any *ten* of the following in about 100 words each : *10×10=100*

   (a) "The second urbanization in the Ganges plain had a far-reaching impact on the environment and forests." Elucidate.

   (b) What are the features of the Forest Act of 2006 that attempt to redress the "historical injustice" committed against forest dwellers of the country ?

(c) What do you understand by the "basic structure" doctrine as applied to the Indian Constitution ?

(d) What are the recommendations of the Yash Pal Committee on 'Renovation and Rejuvenation of Higher Education in India' ?

(e) What are the powers and functions of the Central and State Information Commissions ?

(f) Comment on India's position on climate change and reduction of CO_2 emissions.

(g) Describe the procedure of the passing of an ordinary Bill in the Indian Parliament.

(h) Give your views on whether it is in India's interest to participate more actively in the Shanghai Cooperation Organization.

(i) Comment on the significance and present-day relevance of Birsa Munda's contributions to the National Movement.

(j) List the guidelines of the Election Commission regarding general conduct of political parties and candidates, as part of the Model Code of Conduct for the recent Elections.

(k) What amendments have been issued by the RBI to the Banking Ombudsman Scheme, in February 2009 ?

(l) How is food cooked in a microwave oven ?

5. Comment briefly (in less than 50 words each) on any *twelve* of the following : 12×5=60

   (a)   Dendrochronology

   (b)   Fossil Ida

   (c)   Oseltamivir

   (d)   Jayad crops

   (e)   Jarvik-7 heart

   (f)   Agni-II missile

   (g)   Galileo project

   (h)   LBS technology in mobile phones

   (i)   The Trusteeship Council of the United Nations

   (j)   Earth Hour

   (k)   'Swayamsidha' scheme

   (l)   Elections held recently in India's neighbourhood

   (m)   'Vishwakarma Rashtriya Puraskar'

   (n)   National Judicial Academy

   (o)   Universal Service Obligation Fund

6. Who are the following and why were they in the news recently ?

(Answer each in not more than a sentence or two)

10×2=20

    (a)   Anarkali Honaryar

    (b)   Namit Bahadur

    (c)   Binayak Sen

    (d)   Ram Ashrey Yadav

    (e)   Bhagat Singh Bilga

    (f)   Iftikhar Choudhary

    (g)   Megan Mylan

    (h)   Sudarsan Pattnaik

    (i)   Martti Ahtisaari

    (j)   Jasbir Singh Bajaj

7. Mention the sport/game with which each of the terms below is most closely associated :

10×1=10

    (a)   Home run

    (b)   Chinaman

    (c)   Fosbury flop

    (d)   Sinclair coefficient

    (e)   Raider

    (f)   Mashie

    (g)   Shoulder line

    (h)   Castle

    (i)   Dunk

    (j)   Dink

8. Write down the name of the creator of each of these popular fictional characters : *10×1=10*

    (a)   Artemis Fowl

    (b)   Feluda

    (c)   Tarzan

    (d)   Perry Mason

    (e)   Hercule Poirot

    (f)   Sherlock Holmes

    (g)   Gandalf

    (h)   Tom Sawyer

    (i)   Lord Voldemort

    (j)   Captain Nemo