

No 037265

1.F.S-2009

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.

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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.

- (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 CO₂ 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