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Geography

| 8 1 | | Question Booklet No |
|--------------|---------------------------------|-----------------------------------|
| | (To be filled up by the candida | nte by blue/black ball-point pen) |
| Roll No. | | |
| Roll No. (Wr | ite the digits in words) | |
| | OMR Answer Sheet | |
| Day and Dat | e | |
| | <i>_</i> * | (Signature of Invigilator) |

INSTRUCTIONS TO CANDIDATES

(Use only blue/black ball-point pen in the space above and on both sides of the Answer Sheet)

- 1. Within 10 minutes of the issue of the Question Booklet, Please ensure that you have got the correct booklet and it contains all the pages in correct sequence and no page/question is missing. In case of faulty Question Booklet, bring it to the notice of the Superintendent/Invigilators immediately to obtain a fresh Question Booklet.
- 2. Do not bring any loose paper, written or blank, inside the Examination Hall except the Admit Card without its envelope.
- 3. A separate Answer Sheet is given. It should not be folded or mutilated. A second Answer Sheet shall not be provided.
- 4. Write your Roll Number and Serial Number of the Answer Sheet by pen in the space provided above.
- 5. On the front page of the Answer Sheet, write by pen your Roll Number in the space provided at the top, and by darkening the circles at the bottom. Also, wherever applicable, write the Question Booklet Number and the Set Number in appropriate places.
- 6. No operwriting is allowed in the entries of Roll No., Question Booklet No. and Set No. (if any) on OMR sheet and Roll No. and OMR sheet No. on the Question Booklet.
- 7. Any changes in the aforesaid-entries is to be verified by the invigilator, otherwise it will be taken as unfair means.
- 8. This Booklet contains 40 multiple choice questions followed by 10 short answer questions. For each MCQ, you are to record the correct option on the Answer Sheet by darkening the appropriate circle in the corresponding row of the Answer Sheet, by pen as mentioned in the guidelines given on the first page of the Answer Sheet. For answering any five short Answer Questions use five Blank pages attached at the end of this Question Booklet.
- 9. For each question, darken only one circle on the Answer Sheet. If you darken more than one circle or darken a circle partially, the answer will be treated as incorrect.
- 10. Note that the answer once filled in ink cannot be changed. If you do not wish to attempt a question, leave all the circles in the corresponding row blank (such question will be awarded zero marks).
- 11. For rough work, use the inner back page of the title cover and the blank page at the end of this Booklet.
- 12. Deposit both OMR Answer Sheet and Question Booklet at the end of the Test.
- 13. You are not permitted to leave the Examination Hall until the end of the Test.
- 14. If a candidate attempts to use any form of unfair means, he/she shall be liable to such punishment as the University may determine and impose on him/her.

Total No. of Printed Pages: 15

FOR ROUGH WORK

Research Entrance Test - 2014

No. of Questions: 50

Time: 2 Hours

Full Marks: 200

- Note: (i) This Question Booklet contains 40 Multiple Choice Questions followed by 10 Short Answer Questions.
 - (ii) Attempt as many MCQs as you can. Each MCQ carries 3 (Three) marks. 1 (One) mark will be deducted for each incorrect answer. Zero mark will be awarded for each unattempted question. If more than one alternative answers of MCQs seem to be approximate to the correct answer, choose the closest one.
 - (iii) Answer only 5 Short Answer Questions. Each question carries 16 (Sixteen) marks and should be answered in 150-200 words. Blank 5 (Five) pages attached with this booklet shall only be used for the purpose. Answer each question on separate page, after writing Question No.

| 1. | Which of the following | ng is n | ot a greenh | ouse g | gas? | | |
|--------------------|---|-------------|----------------------------|--------------|---------------------------------------|----------------|--|
| | (1) Carbon dioxide | | | (2) | Methane | | |
| | (3) Sulphur dioxide | | | (4) | Nitrogen | | |
| 2. | The saliva of mamrenzyme is: (1) Amylase (Ptyalir | | ontains star | | olitting enzyme. Secretin | The | name of that |
| | (3) Lysozyme | | | (4) | Mucin | | |
| 3. | Cytosine in DNA cor | mbine | s with : | | | | |
| 0. | (1) Adinosine | | Ę | (2) | Uracil | | 76 |
| | (3) Guanine | | | 41170 61 | Thiamine | | * |
| 7727 | C. 1000 | | a. a. a. | | | tha r | alva of A is |
| 4. | If Vectors $2i - j + k$, | i + 2j - | $-3k$, $3i + \lambda j +$ | | | | |
| | (1) -2 | (2) -3 | 3 | (3) | -4 | (4) | -5 |
| 5. | The value of $(-1+i)$ | $(3)^{3/2}$ | is: | | | | _ |
| | (1) $\sqrt{2}$ | (2) 2 | $\sqrt{2}$ | (3) | $2 + \sqrt{2}$ | (4) | $2-\sqrt{2}$ |
| 6. | The number of elect | rons c | ontained in | 1 Cou | lomb of charge e | equal | ls to : |
| | (1) 6.25×10^{17} | (2) 6 | $.25 \times 10^{18}$ | (3) | 6.25×10^{19} | (4) | 1.6×10^{19} |
| 7. | A unit mass of solid this process is the : | d is co | nverted to l | iquid | at its melting; t | he h | eat required for |
| | (1) Specific heat | 4 | | (2) | Latent heat of | vapo | rization |
| 60 | (3) Latent heat of fr | usion | K | (4) | External latent | heat | |
| 8. | Granite is : | | | | | | |
| | (1) a sedimentary r | rock | | (2) | a metamorphic | rocl | K |
| | (3) a volcanic rock | | | (4) | a plutonic ignë | ous | rock |
| 9. | Coal is a: | | Sir. | * | * | | |
| 9 25 .5 | (1) Sedimentary ro | ock | | (2) |) Hydrothermal | dep | osit |
| | (3) Low-grade met | | phic rock | (4) | High-grade me | etam | orphic rock |
| 10. | Which one of the f some of the sun's radiation damage t | ultra | violet light | prese and | nt in the stratos provides an effe | pher ective | e that filters out e shield against |
| | (1) Oxygen | (2) I | Methane | (3 |) Ozone | (4) | Helium |
| RET | /14/Test B/898 | | (2 | 2) | | | |

| 11 | First fundamental concept of geomor | phology relates to : |
|-----|--|---|
| | (1) Physical process | (2) Structure |
| Ĭ | (3) Landforms | (4) Geomorphological scale |
| 12. | Soil horizons are basically divided int | o; |
| | (1) Organic and mineral horizons | |
| | (2) Organic, mineral and acid horizon | ns |
| | (3) Organic, mineral and salt horizon | S |
| | (4) Mineral, acid and salt horizons | |
| 13. | Which one of the following is a wrong | statement ? |
| 3 | (1) Coriolis force acts at right angle to | |
| | (2) Coriolis force alone can change the | |
| | Process | of coriolis force is directly proportional to |
| | (4) Coriolis force is maximum at the p | oles. |
| 14. | Which one of the following climatic claempirical approach? | assification scheme does not belong to the |
| | (1) Budyko | (2) Koppen |
| | (3) Thornthwaite | (4) Miller |
| 5. | Kyoto Agreement of 1997 is related to : | : |
| | (1) Sustainable development | (2) Climatic Change |
| : | (3) Reduction of chlorofluoro carbon | (4) Maintenance of ozone layer |
| 6. | The first Earth Summit was held at Rio | de Janero in : |
| 2 | (1) 1972 | (2) 1982 |
| | (3) 1992 | (4) 2002 |
| | | a a |

| 17. | | ch one of the fol | low | ing does n | ot ser | ve a | s a source of he | eat fo | or evaporation |
|---------|----------|---|-------|---------------|----------|---------|--------------------|--------|----------------|
| | (1) | Direct solar ener | gy | | | | | | |
| | (2) | Sensible heat of t | he a | ir | | | | | |
| | (3) | Stored heat of th | e wa | ater | | | | | 28 |
| | (4) | Energy released | fron | n radioacti | ve dec | cay p | process within the | he ea | rth crust |
| 18. | | he field of geode earth was made | | the first sci | entific | exp | periment to kno | w th | e dimension of |
| | | Herodotus | | | | (2) | Eratosthenes | | 2 |
| | (3) | Hipparchus | ¥ | | | (4) | Ptolemy * | | |
| 19. | An | tipode journal wa | as st | arted from | r: | | s | | |
| | | Clark University | | | | (2) | Lund Universit | y | |
| | 150AL 56 | Cambridge Uni | 8 | ity | | (4) | London Univer | sity | |
| -00 | ۸., | thor of 'Postmod | orn | Geographi | es' is : | | | | 8 |
| 20. | | Dear | | Harvey | | | Soja | (4) | Ley |
| | (1) | Dear | (2) | Timirey | | (-) | | ` ' | • |
| 21. | Th | e term 'Megalopo | olis' | was coined | l by: | | * | | |
| | (1) | Gottmann | (2) | Geddes | | (3) | Sauer | (4) | Mumford |
| | V.2 | T 5 29 () T 2 | 3 | د داد میا | | | oosad by | | |
| 22. | | daptation' is deri | | | | | | (4) | Aristotle |
| | (1) | Darwin | (2) | Barrows | ** | (3) | Ritter | (*2) | Atlstotte |
| 23. | 'Tì | ne Population Bo | mb' | is authored | d by : | | W | | 34 |
| | | Paul Ehrlich | | | | (2) | D. Meadows | | |
| | | F. Osburn | | | 83 | (4) | Brundtland | | n [©] |
| | | 10 12 12 12 12 12 12 12 12 12 12 12 12 12 | | | | C. | | | |
| 24 | | ne demographic t | | sition theor | y was | | | | |
| (((30) | 61/61 | G. T. Trewarth | | | (F) (F) | 713.000 | W. Thompson | 69 | , |
| | (3 |) F. W. Notestein | n | \$0 | | (4) | Carr-Saunders | 5 | |
| RET | /14/1 | est B/898 | | | (4) | | | | |

| 25. | Edward Acker on the basis of | man has divided the the following factors: | population - resou | rce regions of the world |
|------|-------------------------------------|---|---|--------------------------------|
| | (1) Population | | | 8 |
| | (2) Population | and technology | | 35 |
| | (3) Technology | and resources | | 9 |
| | (4) Population | resource and technol | ogy | *. |
| 26. | Which one of t | he following does no ion? | ot belong to the gr | oup of non-perspective |
| | (1) Polar zenith | al Equal Area | (2) Polar zenitl | nal Equidistant |
| | (3) Stereograph | nic Normal Zenithal | (4) Gnomonic | Polar Zenithal |
| 27. | If the distance be 2.4 inches, then | etween two places or RF will be : | the ground is 1 m | ile and on the map it is |
| | (1) 1:24400 | (2) 1:25400 | (3) 1:26400 | (4) 1:27400 |
| 28. | WIFS sensor is r | nost suitable in the st | ıdy of : | M. M |
| , | (1) Geology | | (2) Water resou | ırces |
| | (3) Topography | • | (4) Vegetation | |
| 29. | Von Thunen The | eory of agricultural lo | cation was nyonous | adad: |
| | (1) 1946 | (2) 1936 | | |
| | (2) 1510 | (2) 1990 | (3) 1926 | (4) 1916 |
| 30, | Who said that hypotheses to ex | Regional Developme plain spatial dispersio | nt provides nothing on of economic acti | ng more than a set of vities'? |
| | (1) R. S. Thomas | 1 | (2) J. Hilhorst | 9 |
| | (3) P. D. Malgac | kar | (4) W. Christall | er |
| 11 | Largest fish proc | ucing nation is : | | W W |
| 8 | (1) Japan | (2) India | (3) Peru | (4) China |
| | # # | | B (80) | , |
| T/1 | 4/Test B/898 | (5) | - N | P.T.O. |
| | | | | |

| 32. | A geostationary satellite of | orbits in equato | rial o | orbit at the altitu | ıde o | f: |
|------|------------------------------|------------------|----------|---------------------|-------|--------------|
| | | | | 20,000 km | | 36,000 km |
| 33. | 'Ecumene' denotes : | | | SP | | 26 |
| | (1) Uninhabited space | | (2) | Deserted area | | |
| | (3) Inhabited world | v. | (4) | None of these | | |
| 34. | Which one of the followi | ng is an ubiquit | tous | resource? | | |
| * | (1) Nitrogen in atmosph | nere | (2) | Aroble land | | |
| | (3) Water | | (4) | Forest | | Q |
| 35. | Earth day in the world is | s celebrated on | : | | | |
| | (1) February 7 (2) | March 22 | (3) | April 22 | (4) | June 5 |
| 36. | World summit on sustai | | | | | |
| | (1) Rio-de-Janeiro (2) | | | | 5. 6. | Montreal |
| 37. | As per 2011 census the h | nighest populat | ion (| density is found | in th | e state of : |
| | (1) West Bengal | | | Bihar | | |
| | (3) Uttar Pradesh | ¥1 | (4) | Kerala | | |
| 38. | Basalt is the example of | | | | | |
| | (1) Igneous rock | & 10 | 222.01.0 | Sedimentary 1 | | |
| | (3) Metamorphic rock | * | (4) |) Orthometamo | orphi | c rock |
| 39. | Morg plateau of Jammu | ı & Kashmir is | the e | example of : | | |
| | (1) Aeolian plateau | | (2 |) Fluvial platea | | |
| | (3) Glacial plateau | , | (4 |) Volcanic plat | eau | |
| 40. | Settlement Geography | was firstly defi | ned | by: | | |
| | (1) Vidal De la Blache | | | E. Jones | | 38 |
| | (3) Carl Ritter | | (4 |) Humboldt | | |
| RET/ | 14/Test B/898 | (6 |) | | | |

Attempt any five questions. Write answer in 150-200 words. Each question carries 16 marks. Answer each question on separate page, after writing Question Number.

- 1. Critically examine the views of Davis and Penck on the cycle of erosion.
- 2. Mention the evidences that support the global warming.
- 3. How are the different components of observed hydrograph separated?
- 4. Critically analyse the 'Limits to Growth' model.
- **5.** Discuss the causes of ecological crisis.
- **6.** Examine the relevance of 'Second Green Revolution' in India.
- 7. Explain the causes of differential growth rates of population in India.
- 8. What do you understand by pastoralism?
- 9. What is New Economic Geography?
- 10. Describe the various approaches of Regional Planning.

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FOR ROUGH WORK