

PUMDET-2018

82210001

Subject: Geography

(Booklet Number)

Duration: 90 minutes

Full Marks: 100

Instructions

1. All questions are of objective type having four answer options for each. Only one option is correct. Correct answer will carry full marks 2. In case of incorrect answer or any combination of more than one answer, $\frac{1}{2}$ marks will be deducted.
2. Questions must be answered on OMR sheet by darkening the appropriate bubble marked A, B, C, or D.
3. Use only Black/Blue ball point pen to mark the answer by complete filling up of the respective bubbles.
4. Do not make any stray mark on the OMR.
5. Write question booklet number and your roll number carefully in the specified locations of the OMR. Also fill appropriate bubbles.
6. Write your name (in block letter), name of the examination centre and put your full signature in appropriate boxes in the OMR.
7. The OMRs will be processed by electronic means. Hence it is liable to become invalid if there is any mistake in the question booklet number or roll number entered or if there is any mistake in filling corresponding bubbles. Also it may become invalid if there is any discrepancy in the name of the candidate, name of the examination centre or signature of the candidate vis-a-vis what is given in the candidate's admit card. The OMR may also become invalid due to folding or putting stray marks on it or any damage to it. The consequence of such invalidation due to incorrect marking or careless handling by the candidate will be sole responsibility of candidate.
8. Candidates are not allowed to carry any written or printed material, calculator, pen, docu-pen, log table, any communication device like mobile phones etc. inside the examination hall. Any candidate found with such items will be reported against & his/her candidature will be summarily cancelled.
9. Rough work must be done on the question paper itself. Additional blank pages are given in the question paper for rough work.
10. Hand over the OMR to the invigilator before leaving the Examination Hall.

ROUGH WORK ONLY

9.	<p>Which one of the following is not a characteristics feature of intensive rice farming?</p> <p>(A) It has adopted the techniques of green resolution (B) It is a subsistence type of farming (C) It has low yield per capita (D) Wet paddy is the principal crop.</p>
10.	<p>The equal area property in the Cylindrical Equal Area Projection is maintained as</p> <p>(A) $RSF < TSF$ (B) $RSF > TSF$ (C) $RSF = TSF$ (D) $RSF = 1/TSF$</p> <p>Where RSF stands for Radial Scale Factor and TSF stands for Tangential Scale Factor.</p>
11.	<p>Which one of the following statements is true with regard to UTM Projection?</p> <p>(A) It is a non conformal projection (B) It is used to map the whole world (C) Position on earth in this projection is defined on the basis of UTM zone number and Easting and Northing. (D) It divides the earth into sixty zones of uniformly 6-degree band of longitudes.</p>
12.	<p>Reduced Level (RL) in Dumpy Level Survey is defined as the difference of elevation between</p> <p>(A) Bench Mark (BM) and Staff reading (SR) (B) Collimation line (CL) and SR (C) BM and CL (D) Back sight (BS) and Fore sight (FS)</p>
13.	<p>The forward magnetic bearing of fore bearing of line AB with a reading of 0 (zero) degree taken by a prismatic compass will be written as</p> <p>(A) $\angle NAB = 0$ (B) $\angle BAN = 0$ (C) $\angle ANB = 0$ (D) $\angle ABN = 0$</p> <p>Where N is indicating the magnetic North</p>
14.	<p>The theory of plate Tectonics is regarded as a ‘unified theory’ because</p> <p>(A) It unifies all theories concerning development of landforms. (B) The plates are theoretically unified since their origin (C) It explains the origin of most of the structural forms associated with the earth’s crust. (D) It was developed to replace the Continental Drift Theory.</p>
15.	<p>Penck’s landscape evolution model advocates</p> <p>(A) Slope retreat (B) Slope replacement (C) Slope development (D) Slope evolution</p>
16.	<p>With reference to the ‘Demographic Transition Model’, India’s present position is at</p> <p>(A) Pre transitional stage (B) Early transitional stage (C) Mid transitional stage (D) Post transitional stage</p>

17.	According to Ravenstein's Laws of Migration, among short journey migration (A) Females appear to predominate (B) Males appear to predominate (C) There is no gender selectiveness (D) Workers appear to predominate
18.	The types of rural settlements can be determined quantitatively on the basis of (A) Settlement density (B) Settlement hierarchy (C) House types (D) Nearest Neighbour Analysis
19.	'Rank size Rule' provides a measure of (A) Density of urban settlements (B) Connectivity of urban settlements (C) Privacy of regional settlement hierarchy (D) Nature of urban morphology
20.	What will be the radius (before reduction to an appropriate scale for drawing) of the sphere to represent the population size (P) of a town? (A) $\sqrt{\frac{P}{\pi}}$ (B) $\sqrt[3]{\frac{P}{\pi}}$ (C) $\sqrt[3]{\frac{P}{4\pi r^2}}$ (D) $\sqrt[3]{\frac{3P}{4\pi}}$
21.	A 'Ternary Diagram' is prepared to represent (i) Soil texture classes (ii) Occupational structure of population (A) only (i) (B) Only (ii) (C) Both (i) and (ii) (D) Neither (i) nor (ii)
22.	'Relative Relief' of a region can be best represented with the help of (A) An isopleths map (B) A choropleth map (C) Contour lines (D) Spot heights
23.	Which one of the following is a product of deep weathering? (A) Core stone (B) Soil (C) Bornhardt (D) Drip stone
24.	'Knick Point' indicates (A) Presence of a dyke (B) Change in the base level (C) Existence of a waterfall (D) Interruption to the fluvial cycle
25.	Glacial deposits can be differential from fluvial deposits by (A) Their size (B) Their shape (C) Their shape and assortment (D) Their size and shape
26.	Which one is the correct sequence of landforms types found from the land to the sea side on an ideal beach? (A) Sand ripples, Runnel, Berms (B) Berms, Sand ripples, Runnel (C) Runnel, Berms, Sand ripples (D) Sand ripples, Berms, Runnel

27.	The earth's latitudinal heat balance is maintained due to (A) The planetary winds (B) The Ocean Currents (C) Both planetary winds and ocean Currents (D) The atmospheric windows
28.	Condensation of atmospheric moisture depends on (A) Height (B) Temperature (C) Humidity (D) Saturation
29.	Which one of the statements with regard to the Tropical Cyclones (TC) is <u>not</u> correct? (A) The Bay of Bengal is a breeding ground of the TC (B) High sea surface temperature (SST) produces TC (C) TC requires coriolis deflection (D) The mean annual frequency of TC is more in the Bay of Bengal than in the Arabian Sea.
30.	Which one of the following is not associated with a raster data? (A) It appears as a pixel (B) An aerial photograph is an example of raster data. (C) When a map is scanned an image produced is a raster data. (D) Raster data of very small pixel size becomes a vector data.
31.	While preparing a map in the scale of 1: 10 million, the Hooghly river will be digitized as (A) A point (B) A line (C) A polygon (D) None of the above
32.	On which of the following surfaces run off is expected to be the maximum? (A) Bare earth (B) Crop land (C) Pasture (D) Forest
33.	'Unit Hydrograph' is a graphical representation of direct run off from (A) One unit of effective rainfall, e.g. 1 cm falling uniformly over a watershed. (B) Rainfall occurred in one unit of time, e.g. 1 hour falling uniformly over a watershed. (C) one cm of effective rainfall uniformly occurring in one hour period over a watershed. (D) One unit of effective rainfall occurring uniformly over a watershed at a uniform rate during a unit period of time.
34.	Much of the floor of the pacific ocean is made up of (A) Mid oceanic ridges (B) Abyssal plains (C) Oceanic deeps (D) Islands
35.	Radiolarian ooze is mainly found on (A) The continental shelf areas of the Temperate region (B) The continental slope areas of the Antarctic region (C) The deep seas of the Tropical region (D) The shallow seas of the Tropical region

36.	Which one of the following soils has the maximum 'field capacity'? (A) Lateritic soil (B) Alluvial soil (C) Chernozem soil (D) Black soil
37.	The difference of acidity between p^H of 5 and p^H of 7 of two soils is (A) 2 units (B) 2 times (C) 10 units (D) 100 times
38.	A tribal group <u>does not</u> possess (A) Social ties (B) Common language (C) Cultural hegemony (D) Territorial homeland
39.	'Social distance' is exhibited by (A) Inter caste marriage (B) Social interaction (C) Residential segregation (D) Occupational shift
40.	Which one of the following is historically considered as a primary 'Cultural Hearth'? (A) The Narmada Valley (B) The Ganges Valley (C) The Brahmaputra Valley (D) The Godavari Valley
41.	Currently the maximum share of speakers among the world language families is (A) Indo European (B) Sino Tibetan (C) Niger Congo (D) Afro Asiatic
42.	The term 'Lebensraum' in political Geography was first used by (A) Oscar Peschel (B) Friedrich Ratzel (C) Karl E. Haushofer (D) Carl Ritter
43.	The concept of 'World island' in H.J. Mackinder's Heartland Theory consists of (A) Europe (B) Asia (C) Europe and Asia (D) Europe, Asia and Africa
44.	Consider the below mentioned data series and state which one of the following measures of Central tendencies will be the most representative for this? Data series : 10,40,39,10,110 (A) Arithmetic Mean (B) Geometric Mean (C) Median (D) Mode
45.	Under what circumstance a frequency polygon becomes a frequency curve? (A) When the points representing the respective frequencies of the classes are joined by free hand. (B) When class intervals are very short (C) When the plotting is done on the basis of frequency densities. (D) None of the above.

46.	Which one of the following is not a characteristics feature of Satellite Remote Sensing? (A) It has space before sensors. (B) It can be either geo-stationary or sun - synchronous. (C) It is a passive kind of remote sensing. (D) The sensing is based on solar electromagnetic radiation.
47.	In a false colour composite (FCC) for visual interpretation young and dense mangrove forest should appear as (A) smooth and dark green (B) coarse and light green (C) smooth and dark red (D) coarse and light red
48.	What will be the scale (RF) of an aerial photograph if the focal length of the camera (lens) is 8.5 cm and the flying height of aircraft taking the photograph is 7 km above the mean sea level (datum)? Height of the surface for which the photograph has been taken is 1900 m above the datum. (A) 1:50000 (B) 1:55000 (C) 1:58500 (D) 1:60000
49.	In terms of Net Primary Productivity (NPP in g/m ² /Yr) the maximum production biomass type is (A) Forests (B) Cultivated lands (C) Estuaries (D) Grasslands
50.	Which one of the following statements is true about phosphorous cycle? (A) It is hugely present in the atmosphere. (B) It has a prolonged gaseous phase. (C) Exchange of phosphorous is very fast between the continents and the oceans. (D) Much of it is stored as phosphate in sedimentary rocks.
51.	Most of the major river courses in India are controlled by their associated (i) Structure (ii) Relief (iii) Human Activities (iv) Climate (A) (i) and (ii) (B) (i),(ii) and (iii) (C) (i),(ii) and (iv) (D) (i), (ii),(iii) and (iv)
52.	'Adi' tribe is indigenous to the state of (A) Nagaland (B) Mizoram (C) Arunachal Pradesh (D) Assam
53.	What was the average (Median) age of India's population as per 2011 census? (A) 20 years (B) 24 years (C) 28 years (D) 32 years
54.	Which city remarked the first in the first round of selection (in January 2016) of the 'Smart Cities Mission' in India, 2015? (A) Bhubaneswar (B) Ahmadabad (C) Surat (D) Jaipur

