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B.Sc. – II (Semester – IV) Examination, 2018
Paper – III : METEOROLOGY (New) (CBCS)
Applied Climatology

Day and Date : Thursday, 17-5-2018
Time : 2.30 p.m. to 5.00 p.m.

Max. Marks : 70

- Instructions :** 1) *All questions are compulsory.*
2) *Use of stencils is allowed.*
3) *Figures to the right indicate full marks.*
4) *Draw neat diagrams wherever necessary.*

1. Choose the correct alternative and rewrite sentences : 14
- 1) In a hot dry environment excessive sweating causes (breathing, dehydration, sweating, shivering)
 - 2) The _____ heat island are formed due to additional of heat from automobile.
(hamlet, rural, urban, village)
 - 3) The term 'forecast' was first applied in meteorology by (Miller, Fitzroy, Coriolis, Trewartha)
 - 4) The primary purpose of clothing is to protect man against _____ and improve him physiological compare.
(humidity, temperature, wind, weather)
 - 5) The effective temperature index below _____ °C is considered as uncomfortable cooling.
(16.1°C, 17.4°C, 18.9°C, 20°C)
 - 6) The last WMO is headquartered in (Washington D.C., Geneva, Pune, Melbourne)
 - 7) Statistical method are used for _____ range forecasting of weather.
(shore, medium, long, daily)
 - 8) _____ is essential for plant growth.
(air, temp, water, fertilizer)
 - 9) The short range forecasts up to _____ hours.
(24, 36, 48, 60)

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- 10) _____ weather forecasting means specific time of observation.
(numerical, statistical, synoptic, short range)
- 11) _____ plays a significant part in the economic activities of people.
(climate, weather, sunshine, humidity)
- 12) Good and bad _____ can influence retail sales.
(climate, weather, humidity, temperature)
- 13) _____ vitamin necessary for the prevention of bone disease.
(A, B, C, D)
- 14) In the _____ pavement and buildings prohibit entry of water into the soil.
(village, city, agriculture, canal)
2. Write answer for the following questions (**any seven**) : **14**
- 1) What is physiological response ?
 - 2) What is meant by pressure gradient ?
 - 3) What is a local wind ?
 - 4) Importance of urban climate.
 - 5) Human body comfort.
 - 6) Weather forecasting.
 - 7) Coriolis effect.
 - 8) What is heat island ?
3. A) Write answer for the following questions (**any two**) : **10**
- 1) What are rotational forces ?
 - 2) Statistical weather forecasting.
 - 3) Effects of local wind.
- B) What are coastal fishing ? **4**
4. Write answer for the following questions (**any two**) : **14**
- 1) Explain the importance of climatic studies in industrial development.
 - 2) State the importance of temperature in physiological response.
 - 3) Write the effect of urban climatic on body comfort.
5. Write answer for the following questions (**any two**) : **14**
- 1) Describe the importance of weather in railway transportation.
 - 2) Explain the method of weather forecasting.
 - 3) Explain how climatic condition affects aviations.