

2020**PHYSIOLOGY****Course : 106.1****(Environmental Physiology)**

Full Marks : 40

Time : $2\frac{1}{2}$ Hours*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*Answer any **two** questions of the following: $20 \times 2 = 40$

1.
 - a) What do you mean by biological environment?
 - b) Mention the types of environment.
 - c) Write the compositions of natural environment in an outline manner.
 - d) Illustrate the terms- "Monera" and "Protista".
 - e) What is terrestrial environment?
 - f) State briefly about the structure of atmosphere.
 $2+2+4+3+2+7=20$
2.
 - a) What is core body temperature?
 - b) Discuss the concept of thermal comfort.

- c) State the physiological and/or physical modes of heat exchange mechanism involved in between human and ambient environment.
 - d) Discuss briefly the role of peripheral and central thermo-receptors in controlling human body temperature. $2+3+7+8=20$
3.
 - a) What is toxin? State any two mechanisms of action of a toxin with example.
 - b) How do you measure the toxicity of a toxin or toxic substance?
 - c) Which factors are involved in causing the toxicity of toxins or toxic substances?
 - d) Write a note on acute and chronic toxicity.
 - e) What is pest? Define insecticide with an example. $(2+6)+3+4+2+(1+2)=20$
4.
 - a) Define primary and secondary air pollutants with examples.
 - b) What do you mean by ozone hole?
 - c) How could you distinguish sound and noise?
 - d) Name the SI unit to express the intensity of sound level. Mention the maximum permissible limit of sound to human at industrial and residential areas.

[Turn over]

- e) What do you mean by radioactive pollution?
State the ionizing and non- ionizing radiations
with selective mechanism.

$$5+2+3+(1+2)+(2+5) =20$$

Submit your answer in PDF file to:

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