**Aviation Medicine Quiz**

1. The term “Coriolis Effect” was introduced by
   a) Schubert  
   b) Gustav Gaspard de Coriolis  
   c) Melvill Jones  
   d) Rodrigueuz Lopez

2. The patch of trans-dermal therapeutic system which delivers 0.5 mg of scopolamine transdermally should be applied at least _________ hrs before exposure to the environment that causes motion sickness.
   a) 08 hours  
   b) 16 hours  
   c) 24 hours  
   d) 36 hours

3. Subjective workload using NASA TLX does not assess the
   a) Physical demand  
   b) Frustration level  
   c) Intelligence  
   d) Temporal Demand

4. Volume control of sound in the human ear (Attenuation reflex) is achieved by
   a) Shape of the Pinna and external auditory canal  
   b) Pressure changes of air in the middle ear  
   c) Tensor tympani and Stapedius muscles  
   d) Control of endolymph flow in the cochlea

5. The Global Navigation Satellite System (GNSS) of India is known as
   a) BHUVAN  
   b) GAGAN  
   c) GALILEO  
   d) GLONASS

6. During space flight, “Chicken leg Syndrome” is characterized by
   a) Increase in leg muscle volume  
   b) Decrease in leg muscle volume  
   c) Decrease in leg bone density  
   d) Decrease in leg length

7. First successful take-off from a ship was performed by
   a) CR Simpson  
   b) Eugene Ely  
   c) Durnford  
   d) Adrian Baker

8. Standard dose of Thallium-201 in a myocardial perfusion imaging is
   a) 50 MBq  
   b) 20 MBq  
   c) 80 MBq  
   d) 110 MBq

9. In the stage of disturbance during hypoxia, altitude in feet when breathing 100% oxygen refers to
   a) 34000 to 39000  
   b) 39000 to 42500  
   c) 42500 to 45000  
   d) Above 45000

10. Time the stage of useful consciousness (TUC) at 18000 ft is approx.
    a) 1-2 cm  
    b) 3-5 min  
    c) 5-10 min  
    d) 20-30 min

11. Red out or Red mist is a visual symptom experienced during
    a) +Gz acceleration  
    b) -Gz acceleration  
    c) +Gx acceleration  
    d) -Gx acceleration
12. Typically under normal conditions a modern round parachute will allow a parachutist to descend at a relatively constant rate of
   a) 10 to 15 ft/s
   b) 50 to 60 ft/s
   c) 90 to 100 ft/s
   d) 120 to 130 ft/s
13. All of the below can simulate microgravity EXCEPT
   a) Parabolic Flight
   b) Sounding Rocket
   c) Human centrifuge
   d) Drop tower
14. First women in the world to receive a pilot license is
   a) Amelia Earhart
   b) Raymond de Larcohe
   c) Jackie Cochran
   d) Bessie Coleman
15. The International Space Station is orbiting around Earth at an altitude of
   a) 170 to 260 Km
   b) 270 to 360 Km
   c) 370 to 460 Km
   d) 470 to 560 Km
16. Von Allen radiations primarily consists of
   a) Low energy protons and electrons
   b) High energy protons and electrons
   c) Low energy positrons and electrons
   d) High energy positrons and electrons
17. The amount of ATP present in muscle is sufficient to sustain maximal muscle power for
   a) 3 Sec
   b) 4 Sec
   c) 5 Sec
   d) 6 Sec
18. The amount of stored oxygen is body that can be used for aerobic metabolism
   a) 2 L
   b) 2.5 L
   c) 3.5 L
   d) 4.5 L
19. The normal diffusing capacity for Oxygen through the pulmonary membrane is
   a) 10 ml/mmHg/min
   b) 20.5 ml/mmHg/min
   c) 21 ml/mmHg/min
   d) 23 ml/mmHg/min
20. The Oxygen dissociation curve does not get affected by
   a) Carbon dioxide concentration
   b) PH
   c) Temperature
   d) Hb concentration

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47th Advance Course (Aerospace Medicine)

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