1. Which of the following is true for temperature stratification:-
   (a) Procedure to increase percentage in LOX (Liquid oxygen generation system)
   (b) Results in fall in percentage of LOX
   (c) Cooling of carotenes in LOX is a method of overcoming problem
   (d) Vibration in aircraft prevents its occurrence

2. ‘Buildup phase’ is important in:-
   (a) Closed circuit oxygen system only
   (b) Open circuit oxygen system only
   (c) Solid chemical oxygen generation system only
   (d) Liquid oxygen generation system (LOX) Only

3. 1 Ltr of liquid oxygen generations:-
   (a) 1040Ltr (NTP) of gaseous O2
   (b) 840Ltr (NTP) of gaseous O2
   (c) 740Ltr (NTP) of gaseous O2
   (d) 940Ltr (NTP) of gaseous O2

4. Which of the following is true for (Molecular Sieve Oxygen Concentrating) (MSOC):-
   (a) Air independent oxygen generation system
   (b) It required, 100%O2 can be delivered to the aircrew
   (c) Supplemental emergency O2 is required
   (d) Dilution of oxygen is not necessary before delivery

5. Following is true for solid chemical oxygen generation system: –
   (a) Used primarily in multi crew combat aircraft
   (b) Used primarily in commercial aircraft
   (c) Fire hazard is a major disadvantage
   (d) Heavy logistic support necessary for maintenance

6. Which is a muscle of Inspiration?
   (a) External intercostals
   (b) Rectos abdominis
   (c) Internal intercostis
   (d) Transverse abdominals

7. All are true in positive pressure breathing (PPB) except:-
   (a) Is useful only above 40 K ft
   (b) Inspiration is an active process
   (c) Helps maintain total alveolar pressure
   (d) Can cause rupture of lungs

8. All are true for TUC (Time of useful consciousness) except :-
   (a) Specified degree of impairment of performance occurs
   (b) PPB increases TUC
   (c) Is the time taken to become conscious from unconscious state
   (d) 100% O₂ increases TUC

9. Hypoxia is affected by:-
   (a) Exercise
   (b) Ambient temperature
   (c) Emotional state
   (d) All of the above
10. The correct sequential stages of hypoxia are:-
   (a) Indifference stage – Disturbed stage – Compensatory Stage – Critical stage
   (b) Indifference stage – Compensatory stage – Disturbed stage – Critical stage
   (c) Compensatory stage – Disturbed stage – Indifference stage – Critical stage
   (d) Compensatory stage – Indifferent stage – Disturbed stage – critical stage

11. All are true of HBOT, except:-
   (a) Pneumothorax is an absolute contraindication
   (b) Useful in autism
   (c) Lorraine Smith Effect affects CNS
   (d) Antioxidants prevents the side effects of HBOT

12. Side effects of oxygen toxicity are all except :-
   (a) Headache
   (b) Painful Breathing
   (c) Seizures
   (d) Machination

13. 50% saturation for O₂ in ODC corresponds to:-
   (a) 26
   (b) 24
   (c) 25
   (d) 23

14. ANR stands for:-
   (a) Acute Noise Reduction
   (b) Active Noise Reduction
   (c) Altered Noise Ration
   (d) Absolute Noise Ratio

15. K-spindles are seen in:-
   (a) REM
   (b) Stage II
   (c) Stage III
   (d) Stage IV

16. MAP is:-
   (a) DBD+ 1/3rd PP
   (b) DBP +1/3rd PP
   (c) SBP+ 1/3rd PP
   (d) SBP+1/3rd DBP

17. UPTD is in relation to:-
   (a) Co poisoning
   (b) O₂ toxicity
   (c) N2 in DCS
   (d) Heliox (Ozone affecting respiratory tract)

18. Drug which do not enhance oxygen toxicity
   (a) Acetazolamide
   (b) Thyroid Extract
   (c) Disulfiram
   (d) Digitalis
19. The Teed scale denotes a graduated injury of:-
   (a) Myocardium
   (b) Cornea
   (c) Tympanic Members
   (d) Lens

20. Absolute Contra Indication of HBOT is
   (a) Uncontrolled High Fever
   (b) Pneumio thorax
   (c) Pregnancy
   (d) Seizure disorder

21. Air travel after MI is permissible at least after:-
   (a) 4 Weeks
   (b) 2 Weeks
   (c) 8 Weeks
   (d) 12 Weeks

22. Pathophysiology of Economy Class Syndrome is manifestation of :-
   (a) Depression
   (b) DVT
   (c) Cerebral stroke
   (d) Hypoxia

23. Yellow Fever vaccination certificate is valid for a period of:-
   (a) 1 Years
   (b) 5 Years
   (c) 10 Years
   (d) 20 Years

24. MEDIF Form for pregnancy is to be filled from which week of gestation:-
   (a) 30 Weeks
   (b) 32 Weeks
   (c) 20 weeks
   (d) 35 Weeks

25. Circadian cycle in human is
   (a) 22 hours
   (b) 24 hours
   (c) 23 hours
   (d) 25 hours

26. International aviation regulation stipulate maximum cabin pressure in commercial aircraft should not exceed:-
   (a) 6000ft
   (b) 7000ft
   (c) 8000ft
   (d) 10000ft

27. Exposure to + Gz acceleration following – GZ acceleration will have the following affect on + Gz tolerance:-
   (a) Decrease
   (b) Increase
   (c) No effect
   (d) None of the above
28. Effect of +Gz acceleration on skin capillaries is known as:-
   (a) Cutis Marmorata
   (b) G- Measles
   (C) Liuiedo reticularious
   (d) None of the above

29. In +Gz, direction of acceleration is
   (a) Head words
   (b) Foot words
   (c) forwards
   (d) Back wards

30. Inflation rate of G suit as per UK Schedule as
   (a) 1.25 lb/m2
   (b) 1.5lb/m2
   (c) 1.35 lb/m2
   (d) Nome

31. Maneuver in which the aircrew turn to look over their shoulders for aircraft following
   them is known as:-
   (a) Check 6 maneuver
   (b) Herbt
   (c) J Turn
   (d) None of the above

32. SACM stands for
   (a) Simulated Air Combat Maneuver
   (b) Simultaneously performed ACM
   (c) Simulated Air Control Maneuver
   (d) Nome

33. Intermediate duration acceleration persist for
   (a) 0.5-2Sec
   (b) 0.1-0.5 Sec
   (c) >2 Sec
   (d) <0.1Sec

34. Temperature stratification is a phenomenon seen in
   (a) LOX
   (b) GASOX
   (c) OBOGS
   (d) MSOC

35. HEPA filter stands for
   (a) High efficiency particulate air filter
   (b) Highly effective particle air filter
   (c) Humid efficiency particle air filter
   (d) None

Answer to Aviation Medicine Quiz on page - 19