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**Started on** Friday, 18 March 2022, 4:37 PM

**State** Finished

**Completed on** Friday, 18 March 2022, 4:57 PM

**Time taken** 20 mins 2 secs

**Grade** 8.00 out of 10.00 (80%)

Question **1**

Correct

Mark 1.00 out of 1.00

Concerning the telemetry signal, the following holds:

- ☒ a. It is transmitted from the satellite down to the TTC&M station
- ☐ b. It is transmitted from the TTC&M up to the satellite
- ☐ c. It is bidirectional

The lower the frequency used, the higher the attenuation

- ☐ d. None of the choices



Question **2**

Correct

Mark 1.00 out of 1.00

Kepler's 2<sup>nd</sup> Law deals with:

- ☐ a. The length of time it takes the satellite to orbit the earth.
- ☒ b. The speed/area the satellite travels
- ☐ c. The shape of the satellite's orbits

Question **3**

Correct

Mark 1.00 out of 1.00

The life of satellite is usually determined by:

- ☒ a. The amount of fuel it holds
- ☐ b. The lifespan of its battery
- ☐ c. The lifespan of its electronic components
- ☐ d. The lifespan of its solar panels



Question **4**

Correct

Mark 1.00 out of 1.00

The band used for navigation satellites (GPS, GLONASS, etc.) is:

- ☐ a. Ku-band
- ☐ b. V-band
- ☐ c. C-band
- ☒ d. L-band

Question **5**

Correct

Mark 1.00 out of 1.00

Sidereal time is based on one complete rotation of the earth relative to :

- ☒ a. a Fixed star reference.
- ☐ b. the Moon
- ☐ c. the Sun
- ☐ d. aSatellite



Question **6**

Correct

Mark 1.00 out of 1.00

The satellite usually self-generates a communication signal and transmits it back to the earth.

Select one:

- ☐ True
- ☒ False ✓

Question **7**

Incorrect

Mark 0.00 out of 1.00

The first artificial satellite is:

- ☐ a. Intelsat
- ☒ b. TELSTAR
- ☐ c. SPUTNIK I
- ☐ d. EarlyBird

✗

Question **8**

Incorrect

Mark 0.00 out of 1.00

Concerning the satellites orbiting around the earth, we have:

- ☐ a. The farther the satellite to the earth, the faster it will be
- ☐ b. The closer the satellite to the earth, the faster it will be
- ☒ c. The velocity of a satellite is independent of its distance from the earth

✗

Question **9**

Correct

Mark 1.00 out of 1.00

The speed of the satellite at the Apogee is equal to its speed at the Perigee only if its orbit is:

- ☒ a. Circular
- ☐ b. Highly elliptical orbit (HEO)
- ☐ c. None of them
- ☐ d. Elliptical

Question **10**

Correct

Mark 1.00 out of 1.00

\_\_\_\_\_ bands cannot be used for satellite communication

- ☐ a. C
- ☐ b. Ku
- ☐ c. Ku
- ☒ d. MF

