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| | Reg. No.: | | | Т | Т | | | | | 48 | 21 6 |
|------------------|--|---|-----------------|-------------|-------|-------|------|-----------------------|------|-------|------|
| | account sold to entire description of block fourture | | | | | | | de publición o (n. 31 | | | |
| (10) | Question P | aper | Cod | e : | 40 | 53 | 32 | nin. | | | |
| B.E. | /B.Tech. DEGREE | EXAMI | NATIO | N, A | PRI | L/M | AY : | 2018 | 3 | | |
| | Aeron AE6 | eventh S autical I 3701 – A egulatio | Engine VIONI | ering CS | | | | | | | |
| Time: Three Ho | urs | | | | | | | | | 00 Ma | |
| | Ans | wer ALL | questio | ns | | | | | | | |
| | | PART | | | | | (| 10×2 | 2=20 | Mar | ks) |
| 1. What are th | e important requirer | nents for | civil av | ionic | s sys | stems | 3? | | | | |
| 2. State the ste | eps involved in Avior | nics syste | m desig | n. | | | | | | | |
| 3. What do you | ı mean by single poi | nt failure | in data | bus | ? | | | | | | |
| 4. State the im | portant features of i | fourth ge | neration | ı Arc | hited | ture | | | | | |
| 5. Differentiat | e LED and LCD. | | | | | | | | | | |
| 6. What are th | e advantages of Nigl | ht Vision | Goggle | s ? | 4 | | | | | | |
| 7. State the pr | inciple of Gyroscope | | | | | | | | | | |
| 8. Differentiat | e stable & strap dow | n INS. | | | | | | | | | |
| 9. Define true | air speed. | | | | | | | | | | |
| 10. Define the t | erm "Phugoid mode" | oscillati | ons. | | | | | | | | |
| | | PART | '-B | | | | (| 5×1 | 6=80 |) Mai | rks) |
| 11. a) Explain | the Avionics systems (OR) | s which i | nterface | dire | ctly | with | the | pilot | | | (16) |
| b) Explain | the role of Avionics i | in Space | systems | with | nea | t dia | gran | ns. | | | (16) |
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|---|---|------|
| 12. a) i) Explain the Pave pill | ar architecture with neat block diagram. | (6) |
| | itecture of MIL STD 1553. | (10) |
| | ructure of ARINC 429 data bus. | (16) |
| 13. a) Explain the principle a(OR)b) Explain the following: | nd working of HUD with neat diagrams. | (16) |
| i) CRT. | No. of | (10) |
| ii) HOTAS. | snathay 11), insens | (6) |
| a) Explain the theory of I. (OR) | | (16) |
| b) Explain the theory of C | SPS with neat sketch. | (16) |
| (OR) | Longitudinal Autopilot with neat sketch. Altitude warning system with neat sketch. | |
| | selection of the State of the Advantage | |
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| | ekil mweb queste as vidage et | |
| | air speen | |
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| | the Assenta Assents which interface disorders (OD) | |
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