

नेपाल नागरिक उड्डयन प्राधिकरण
प्रविधिक सेवा, मेकानिकल इन्जिनियरिङ्ग समूह, पाँचौं तह, वरिष्ठ सहायक पदको प्रयोगात्मक परीक्षाको पाठ्यक्रम
पूर्णाङ्क : ३० उत्तीर्णाङ्क : १५

A. Workshop Practices (10 Marks)

1. Identification and use of hand tools and special tools
2. Identification of main components and parts of machine
3. Identification of major specifications of machine
4. Identification and use of safety tools and devices
5. Use of workshop manuals
6. Lathe exercise: Turning, Boring, Internal/External thread cutting, Eccentric turning
7. Shop fitting exercise: Cutting, Fitting, Drilling, Tapping, Male and Female Joints
8. Milling exercise; Horizontal milling with cylindrical and Side/Face cutters
9. Welding exercise; Single vee, Butt-weld, Fillet weld, Brazing, Soldering

B. Vehicle Maintenance (10 Marks)

1. Identification of major components of vehicle
2. Use of maintenance manual and spare parts manual
3. Change of oil, fuel and air filter
4. Top-up and Change of lubricants
5. Changing of hydraulic/pneumatic pipe, hose and grease nipples system
6. Servicing of cooling, fuel, clutch and brake system
7. Cleaning, Changing, Gap setting of spark plugs
8. Identification of electrical components of vehicle
9. Changing of bearings, disassembly/assembly of electric motor/water pump
10. Servicing of starter motor
11. Diagnosis and fault finding related to fuses, charging, ignition and electrical system

C. Air Conditioning System Maintenance (10 Marks)

1. Identification of major components
2. Identification of spare parts
3. Servicing of air conditioning system
4. Identification and changing of refrigerants
5. Dismantling, Assembling, Repair and Maintenance of split air-conditioning unit