Across

1 DECIMAL
Definition: arithmetic system; (MEDICAL)*

5 FLAPPER
Double-definition: (i) flighty young thing (ii) hot and bothered

9 PERDU
Definition: concealed; hidden in 'suPER Duper'

11 CHISELLER
Definition: cheat; CHI (female) SELLER (vendor)

12 NUDGE
Definition: push; NUDE (naked figure) around G[ently]

13 SLANG
Definition: scold; hidden in 'theiveS LANGuage'

15 TUPPENCES
Cryptic definition

18 PLEASANCE
Double-definition: (i) part of the garden (ii) that delights

21 ADIEU
Definition: good-bye; AD (publicity) IE (that is) U (high-class)

23 HIERARCHY
Definition: priestly government; HI (exclaim) (ARCHERY)*

25 CONUNDRUM
Definition: puzzle; CO (company) NUN (pious woman) DRUM (beating instrument)

26 CAIRO
Definition: capital; AIR (atmosphere) in CO (firm)

27 DARK RED
D&CD [http://www.crosswordunclued.com/2010/02/cryptic-double-definitions.html]: (i) colour;
(ii) of African (DARK) communism (RED)

28 TRAMMEL
 Definition: impede; TRAM (car) MEL[ody]

Down

1 DEPICTS
Definition: pictures; DE ('the' French) PICTS (underground dwellers - a dwarfish race of underground dwellers in Scottish folklore)

2 CARTILAGE
Cryptic definition – reference to the 1857 Indian Mutiny.

3 MOUSE
Cryptic definition

4 LACK LATIN
Definition: ignorant priest; (AN ILL TACK)*

5 FLOOR
Cryptic definition

6 ABSENTEES
Cryptic definition

7 PROUD
Definition: mettlesome; PRO (expert) U (universal) D (degree)

8 REDDENS
Definition: blushes; RED (revolutionary) DENS (studies)

14 GAS-BURNER
Cryptic definition

16 PRETERMIT
Definition: hold back; PRE (before) TERM (name) IT

17 CATECHISM
Cryptic definition

18 PRANCED
Definition: swaggered; PR (pair) (DANCE)*

20 PAYROLL
Definition: where an employee is included; AY (yes) R (right), in POLL (voting)

22 INNER
Definition: circle; EVE (the lady) N, S (divergent points)

23 HIRED
Cryptic definition – taken on the PAYROLL.

24 ACCRA
Definition: capital; AC (cooler) CR (credit) A