MARKING KEY

MULTIPLE MARKING KEY (40 MARKS)

1. C
2. B
3. D
4. C
5. A, D
6. C, E
7. E
8. E
9. D
10. B
11. C, D
12. B
13. E
14. A
15. A
16. C
17. D, E
18. C
19. B, C
20. C, E
21. A, E
22. E
23. B
24. B
25. D
26. D
27. A, C
28. C, D
29. B
30. D, E

Q1. (a) Class I – Normal smear - 3pts

" II – Smear with inflammatory changes due to infection with bacteria monilla - 3pts

" III - borderline, mild dyskaryosis suggestive of malignancy - 3pts

" IV - Moderate to severe dyskaryosis suggestive of C.A cervix - 3pts

Other clarification includes:
C,N I, II, III,IV C,N V - 3pts
Total = 15 pts

(b) Mention of:
i) Use of 20 % alcohol under the sections before floatation in water
.bath. -1pt
ii) use of warm water to remove sections creases. – 1pt
iii) Attached of sections on adhevosivised /albuminised glass slides.
-1pt
iv) Temperature of water bath 6-10ºC below m.p. wax
-1pt
v) Purpose of attaching sections – prevention of detachment of sections from slides during staining
- 1pt

Total = 20pts

Q2. (a) processing of honing:
- use of stropes – leather (2) or canvas (2) (coarse side/to polish microtone
knife after honing
-5pts

- two types of stropes – rigid or hanging
-4pts
- Removal of 'burr' or defining of the knife level
-2pts
- Both surfaces can be on one unit – start with coarse and end with the fine surface
-1pt

- processing of stropping – opposite of honing
-1pt

-Toe to heel movement -2pts
15 pts

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(b) Significance of ringing media mention of:
- Syrupy or viscous substances used in conjunction with aqueous media
between cover glass and slide
-2pts

- Used to seal sides of cover slip
- Purpose to protect seepage or evaporation c aqueous mountants - 1pt
- Sets quickly hard to make permanent preparation
- 1pt

Total = 20pts

Q3 (a) Metaphase: mention of
-2nd stage of mitotic cell division
-1pt
- chrosoma arrange – forms a chromatic spindia
-1pt
- divider longitudinatty – into two chramatids
-1pt
- nice well labelied diagram
- 2pts

Total = 5pts

(b) peaveys fluid mention:
- Decalcifying fluid - 0.5pt
- not recommended when chemical method of taking end point is to be used
1pt
- Decalfying period 2 – 10days 0.5 pt
- correct composition:
  - 10% aqueous nitric acid
  - 0.5 aqueous chromic acid
  - absolute ethanol
  1pt

total 5pts

(c) Tissue tek mention:
- One of histological tissue moulds - 1pt
- Consinsts of c metal base and plastic Rig (stainless)
- 1pt
- plastic rigs need in conjunctive - 1 pt

- with stainless base

-molten wax disposed thronga the rig on the specimen on the base -1 pt

Total = 5pts

(d) Osmium tetroxide mention
- sample fixation -1pt
- commonly known as osmic acid - 1pt
- string oxizing agent - 1pt
- Extremely volatile – fumes cause blindness -1pt
- Good for rapids/fats impacting black colour -1pt

Total= 5pts

Total =20pts