SCIENTIFIC ASSISTANT - FORENSIC SCIENCE

Match List-I with List-II and select your

	answer using the codes given below.	
	List - I	List – II
1	a. Near IR	1. 200 = 10 cm ²
	b. Mid IR	2. 4000 - 200 cm·1
	e. Far IR	3. 13000 - 4000 cm ⁻¹
	d. Visible range	4. 4000 – 7600 Å

	a.	В	С	d
-	3	2	1	4
B.	2	3	4	1
C.	4	3	2	1
D.	1	2	3	4

- "Inductively coupled plasma optical Emission Spectroscopy" can be used to:
 - Y) Measure the concentrations of as many as 2) Determine one element at a time
 - 70 elements simultaneously
 - 3) Measure the concentrations of all elements in the periodic table
- 4) Measure the concentrations of only 10 elements in the periodic table
- The Coumarin derivatives causes the deficiency of:
 - 1, Vitamin C

2) Vitamin A

37 Vitamin K

- 4) Vitamin D
- Heroin gets rapidly degenerated to:
 - 1) 4-Monoacetyl morphine

2) 6-Monoacetyl morphine

3) Diacetyl morphine

4) 2-Monoacetyl morphine

- Amphetamines are:
 - 1) Depressants

2) Stimulants

3) Convulsants

- In Wilson's disease, the metal present in large quantity is:
 - 1) Lead

3) Aluminium

- One of the most important constituents to characterize Gin is:
 - // Juniper berries

2) Hops resin

3) Fusel oil

- 4) 90% Ethanol
- Tequila is obtained by distillation of fermented juice of:
 - 1) Barley

Agave 4) Oats

3) Potato

- 9. Methyl isocyanate is classified as:
 - 1) Agrochemical

2) War gas

3) Irritant

- A) All the above
- 10. Magnan's symptom occurs due to:
 - 1) Heroin addiction

2) Ganja addiction

Cocaine addiction

4) Pethidine addiction

- 11. Lindane is:
 - 1) Carbonate

- 2) Organochlorine pesticide
- 3) Organophosphorus pesticide

Almost no sample preparation
3) Samples must be destroyed
2) Samples should be disintegrated
2) What is the first step to be followed in focussing of an object in macro photography?
1) Moving the camera or object to bring the 2) The lens to film distance is adjusted to object into sharp focus
3) The depth of field is adjusted for optimum
2) What are the primary colours?
1) Red, Green and Yellow
3) Cyan, Blue and Magenta
2) Sample preparation
4) Samples should be disintegrated
4) Samples should be disintegrated
4) None of an object in macro obtain desired degree of magnification
4) None of the above optimum
4) Red, Green and Blue
4) Blue, Yellow and Green

23. While examining and photographing documents by short UV radiations the

	documents should not be placed under gl amount of fluorescence (ii) Increases amo Auorescence (iv) Glass itself may fluoresc	ount of fluorescence (iii) Absorbs the
	1) (i) and (ii) are correct 3) (ii), (iii) and (iv) are correct	2) (i), (ii) and (iii) are correct 4) (i), (iii) and (iv) are correct
24.	An envelope containing a letter in a half skidnapping case. The I.O decided to know opening. Suggest a suitable method.	
	1) Photographing using transmitted UV radiation	2) Photographing using reflected IR radiation
/	3) Photographing using transmitted IR radiation	4) All the above
25.	Suggest a suitable method to photograph 1) Vertical illumination 3) Ultraviolet photography	finger impressions on steering wheel: 2) Photograph with the aid of mirror 4) All the above
26.	Panchromatic films is sensitive to: 1) Ultra-violet region of the spectrum 3) Red region of the spectrum	2) Blue region of the spectrum A) All the above
27.	What is/are the factor/s which affect the 1) Lens setting 3) Guide number	light focussing on the film? 2) Shutter setting A) All the above
28.	In a badly decomposed body, it was obserbody. State which method of photograph 1) Transmitted light photography 8) Reflected infrared photography	
29.	In a rifled firearm shoot out incident, clo observe invisible powder pattern. Find th	thing of the victim was recovered to ne useful method to photograph the same.
-	1) Ultra violet photography 3) Infra-red photography	2) Visible photography4) All of these
30.	the reverse side	2) Radial cracks form at right angle on the reverse side
	3) Radial cracks form at right angle on the rough side	4) None of these
31.	Examination of glass as evidence materia	I in crime detection can be done using:
	The refractive index and density as parameters 2) Physical models and a site salamond.	2) Chemical methods to determine its elemental signature
	3) Physical match such as its colour and fragment pattern	All of these

32. The two most useful physical properties of glass for forensic comparisons are

	<u> </u>	
	Density and refractive index 3) Brittleness and Hardness	2) Elasticity and plasticity4) None of these
33.	While determining the refractive index of method", the match point refers to:	f a glass fragment through "immersion
1	The disappearance of Beckeline when the liquid medium and the glass fragment have similar refractive indices	e2) The appearance of Beckeline aroud the margins of glass fragment that is immersed in a liquid of a different refractive index
	3) The disappearance of Beckeline when the liquid medium and the glass fragment have similar density	, 1
34.	Any questions regarding whether or not a before the impact, may be resolved by ex-	•
	Fractured headlight cover glass Reflector shell of the head lamp	2) Headlight filaments 4) All the above
	The radiating lines in a fractured window (1) Radial fracture 3) Cone fracture	y glass are approximately known as: 2) Concentric fracture 4) Rib marks
36.	Study of trace elements present in suspec provide:	t and crime-scene glass fragments will
/	Class characteristics of the glass Distinctive and measurable characteristics towards individualizing glass to a common source	2) Bulk property of the glass4) An idea about the type of glass
37.	The common metal oxides found in the "s	soda-lime' glass are :
	Sodium, calcium, magnesium and aluminium	2) Sodium, Boron and calcium
	3) Sodium, Boron, Lead and Manganese	4) Sodium, Barium, Lead and Antimony
38.	Fixed projectiles should be lifted only wit 1) Stainless steel tongs 3) Sterilized spoon	h: 2) Rubber tipped foreceps 4) Fingers
39.	A 0.32 calibre revolver bullet fired from 4 1) Blackening around the bullet hole 3) Showing tattooing around the hole	1 meters will result in the target: 2) Showing only a dirt ring 4) Showing a hole with crops tear
40 .	The speed of pellets in a 12 bore shot gun 1) Full choke True cylinder	is greatest when the barrel is: 2) Improved cylinder 4) Quarter choke
41.	Number or letter to indicate the size of shall) Over powder wad	2) Cushion wad
	3) Undershot wad	Af Overshot wad

SCIENTIFIC ASSISTANT - FORENSIC SCIENCE 42. What is the ration of Potassium Nitrate, Charcoal and Sulphur in gun powder: 1) 75:10:15 2) 15:10:75 **4)** 75 : 15 : 10 \sim 3) 10:15:75 43. Calibre of a rifled fire arm is a measure of the: Diameter of the bore across the body 2) Diameter of the bore across the grooves 3) Length of the barrel 4) Diameter of the cartridge fired through it 44. Choke in the barrel of a shot gun: increases the effective range 2) decreases the effective range 3) increases the killing range 4) decreases the killing range 45. Ammunition inserted into the rear of the barrel is known as: 2) Breech loader 1) Muzzle loader 4) Chamber loader 3) Magazine loader 46. Barrel length required for a groove or land to make one complete revolution of the bore is: 1) The calibre 2) The bore diameter A) The pitch of rifling 3) The gauge 47. The striations on the fired bullet was caused by: The lands and grooves in the bore 2) The cartridge chamber 3) The firing pin 4) The bolt action 48. Which of the following physical evidence must be preserved in the crime scene to find out origin? 1) Blood 2) Hair 4) None of the above 31 Both (A) and (B) 49. Physical evidence provided by glass fragments is usually associated with a group and not to a single source and is said to possess -Class characteristics 2) Individual characteristics 3) Coloured characteristics 4) None of these 50. Footprint and fingerprint evidence found at the scene of occurrence should be: 1) retained in the custody of the I.O 2) sent to the fingerprint bureau only after apprehending the culprit 3) sent immediately to the court for custody 4) retained by the I.O to facilitate identification of culprit 51. "Electronic Flash gun" is the component of: 1) Footprint kit 2) Fingerprint kit 2) Photography kit 4) Packing kit

52. What type of shutter is placed in front or back of the film?

53. Infra-red spectroscopy is used to find out -

2) Focal plane shutter
4) None of these

2) Molecular structure

4) Molecular weights

1) Leaf shutter

3) Compur shutter

Functional groups

3) Trace elements

SCIENTIFIC ASSISTANT - FORENSIC SCIENCE 54. Photoluminescence is the combination of: 1) Light and dark radiation 2) Bright and dark radiation Fluorescence and phosphorescence 4) Fragrance and smokeyness 55. Gas chromatography and mass spectrophotometer technique can be best applied 1) Fire debris analysis 2) Narcotic sample analysis 3) Explosive residues AN All of these 56. Common radiation source for infra-red spectrophotometer is: 1) Nernst glower 2) Globar 3) Nichrome coil AY All the above can be employed individually depending upon the mode 57. In infrared spectroscopy, the methods used in the preparations of solid samples is/are: 1) Potassium Bromide pellet method or 2) Micro-gas shells Mull method 3) Macro-gas shells 4) Gas shells 58. The criteria for satisfactory colourimetric analysis is: 1) Specificity and stability of colour 2) Reproducibility and sensitivity A) All of these 3) Proportionality between colour and concentration 59. Beer-Lamberts law is expressed as: 2) $A = \frac{1}{8} (abc)$ 4) $A = \frac{1}{4} (abc)$ 3) $A = \frac{1}{2}$ (abc) 60. Successful use of liquid chromotography depends on: 2) Column length and diameter 1) Type of column packing and mobile phase 3) Mobile phase flow rate, temperature and (4) All the above sample size 61. With the help of HPLC, the following analysis cannot be performed. 1) Analysis of both volatile and non-volatile 2) Isolation and purification of compounds compounds 3) Separation of closely related compounds 4) Thermal analysis 62. In gas chromotography, 'Rt' denotes: 1) Retention volume 3) Retention pressure 2) Retention time 4) Retention temperature 63. In chromotographic techniques, the carrier gas supply usually does not include:

2) Nitrogen

4X All of these

2) Saturated partially or fully

4) Argon

64. The tank to develop thin layer chromotography must be:

1) Helium

3) Acetylene

Flat bottom
 Tightly closed

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65. In cases of Arson, the inflammable accelerants like petrol, kerosene may be

,	analysed by: Gas chromotography 3) Atomic absorption spectroscopy	2) X-ray diffraction4) Neutron activation analysis
66.	the same text as in the questioned docum to the suspect and write the same (iv) Hel and capitalization	rom suspect (ii) Asked to write out exactly ent (iii) Showing the questioned document lping the suspect to write with punctuation
	1) (i) alone is correct 3) (i), (ii) and (iii) are correct	2) (i) and (ii) are correct 4) All are correct
67.	A neighbouring nationalist involved in a was arrested and his premises were raide will be of more evidential to charge sheet	d. As a forensic scientist, which of these
	Counterfeit currency Scanner with colour printer	2) Central processing unit All the above
68.	The correct procedure to be adopted for laboratory -	transporting the charred documents to the
,	I) Insert a sheet of stiff paper beneath the charred documents and then lifted and packed	2) Place the documents inside a plastic cover
	3) Handle with bare hands and place it in a solid container	4) Both (A) and (B) are correct
69.	In a case of death due to bullet injury, the from the head of the victim. During the insuspected persons possessing:	
	1) Revolvers 3) Rifles	2) Pistols A) All the above
70.	In a highly decomposed unidentified body establishing the identity. What is the most 1) Passport size photograph 3 A casual snap showing dentition	
71.	A couple of men were found dead in a cardeaths were due to carbon monoxide pois for examination?	oning. Which organs are to be preserved
	 Stomach and liver in saline Stomach and liver in liquid paraffin 	2) Lungs and blood in liquid paraffin4) All the above
72.	In general, death occurring persons get into 1) Carbon monoxide 3) Methane	to unused wells can be attributed to: 2) Carbon dioxide 4) Sulphur dioxide

	3. In a case of hit and run road accident, you intercept 3 suspected vehicles in toll gate about 7 kms from the scene of crime. Which of the following clues in the scene of crime are useful in identifying the vehicle actually involved in the case?	
	1) Skid mark in the mud3) Skid mark on the road	2) Type mark in the mud 4) All the above
74.	Guideline(s) to be followed in collecting s 1) Material evidence and soil adhered to it must be separately packed 3) Soil has to be collected from fenders and frame areas of the vehicle	2) Lump soil from the scene of crime
75.	typing was to be done. In absence of cont sampling for DNA typing.	
	 One square inch of liver Pulled head hairs from the deceased 	2) One square inch of spleen All the above
76.	The ideal procedure for transporting a w	
	3) Weapon and water should be separately transported to the lab	4) Weapon alone transported to the lab
77.	Explosion damaged patterns at the scene travelled (ii) The location of maximum dabomb was thrown (iv) All the above	shows: (i) The direction in which the blast amage (iii) The direction in which the
,	1) (i) and (iii) are correct (i) and (ii) are correct	2) (ii) and (iii) are correct 4) (iv) is correct
78.	Braille Point-triangle indicates the value 1) Rs.500/- 3) Rs.50/-	of currency is : 2) Rs.100/- 4) Rs.1000/-
	The watermark in genuine notes is impre 1) In a pulpy state 3) At the time of printing	2) Before printing 4) After printing
	Repeated tool marks on a window bar wo 1) File 3) Hammer	ould indicate the tool used in : 2) Jemmy 4) Screw Driver
81.	Etching reagent for cast iron and cast ste 10% solution of H ₂ SO ₄ and K ₂ Cr ₂ O ₇	
	3) Dilute KOH	4) Dilute NaOH

SCIENTIFIC ASSISTANT - FORENSIC SCIENCE 82. Whether obliterated engraved marks be restored: 1) Can be restored if the erasure is too deep 2) cannot be restored 2) Can be restored if the erasure is not 4) Can be restored if the obliterated surface beyond the limit of restoration is smooth 83. Which tool may not make a repetitive cut marks: 1) Saw 2) Hacksaw A) Crowbar 3) File 84. A criminal can be linked to a crime even after a long interval through the tool and tool marks: 1) Possible 2) Impossible 37 Possible if the tool is not extensively used4) Always possible after commission of crime 85. Restoration of filed off/erased marks are done through: Etching process 2) Thermal process 3) Electroplating 4) Galvanising 86. Striated lines caused by a tool can be compared with the test tool marks made from the suspected tool using: 1) Microscope 2) Stereoscopic microscope AY Comparison microscope 3) Compound microscope 87. What is tool marks? 2) Specification of the tool 1) Trade mark of the tool Marks caused by a tool when contact 4) Details of manufacturer with another object 88. In which ancient Indian literature was found the scientific method of investigation? 2) Arthashastra 4) Raghu vamsam 1) Indica 3) Shakuntalam 89. When and where was the Institute of Criminology and Forensic Science established? 1) 1953, Calcutta 2) 1830, Bombay 25 1971, New Delhi 4) 1972, Hyderabad 90. What are the types of search in the scene of crime to locate scientific evidence?

1) 2 types (i) Indoor (ii) Outdoor

expected of the average layperson?

1) Government witness

3) Expert witness

2) 3 types (i) Combing (ii) Sweeping (iii)

Vaccuum cleaning

(iv) Grid (v) Zonal

2) Specialised witness4) Subject witness

3) 4 types: (i) Strip (ii) Spiral (iii) Sectional 4) 5 types: (i) Strip (ii) Spiral (iii) Sectional

91. To whom the court determines to possess knowledge relevant to the trial that is not

92.	What is the use of Potassium levels in the body?	ocular fluid (Vitreous humor) in a dead
	for estimating the time of death 3) to determine the mode of death	2) to determine the cause of death4) All the above
93.	Which of the following is the "Postmorte	m change" that cause a body to lose heat?
,	Rigor mortis Algor Mortis	2) Autopsy4) Livor mortis
	"Voice print analysis" is related to: **Cases involving telephone threats 3) Cases involving foot print	2) Cases involving finger print4) Cases involving polygraph / narco analysis
95.	Who was a tireless advocate for applying particularly Forensic Science cases?	microscopy to analytical problems,
/	Walter C. McCrone 3) Albert S.Osborn	2) Hans Gross4) Leone Lattes
96.	Who devised a relatively simple procedur dried bloodstain?	re for determining the blood group of a
	1) Karl Landsteiner 3) Hans Gross	2) Leone Lattes 4) Albert S.Osborn
	Who is the "Father of Forensic Toxicolog 1) Alphonse Bertillon み Mathieu Orfila	y"? 2) Francis Galton 4) Leone Lattes
98.	Finger prints may be resolved into three lare;	arge general groups of patterns. They
/	Arch, Loop and Whorl 3) Arch, Curve and Whorl	2) Arch, Loop and Whorl4) Arch, Loop and Swirl
99.	The area of the finger print in which core	s, deltas and ridges appear is known as -
	7) Pattern area 3) Patent area	2) Prime area4) Principal area
100.	When there is a definite break in the finge considered as its continuation:	erprint typeline, the following is
	 The ridge immediately inside of it The second ridge immediately inside of it 	2) the ridge immediately outside of it 4) The second ridge immediately outside of it
	In classifying the finger prints, under all t should be placed for every pattern except	
_	Arch Ulnar loop and whorl	2) Tented Arch4) Radial loop
102.	In primary classification of fingerprints, tright middle finger impression is:	the numerical value assigned to a whorl in
	1) 16 3) 4	2) 8 4) 2

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103. Gold and red bronze powders are used 1) Dark coloured surface 2) Light coloured surface	1 for developing finger prints on: 2) Polished surface 4) On mirror
104. In iodine fuming method of developing	g latent finger print, iodine is absorbed by :
1) Fatty or oily matter in fnger print 3) Sweat in the finger print	2) Salts in the finger print4) Dead epidermal cells in fingerprint
105. The fingerprint consists normally of a approximately:	deposit of perspiration which contains
1) 80% water and 20% solids 3) 90% water and 10% solids	2) 85% water and 15% solids 4) 99% water and 1% solid
106. Physical developer is a fingermask pro Y) Porous surface 3) Mirror surface	cessing reagent for: 2) Polished surface 4) Glass surface
107. Dimethyl cinnamaldehyde finger print 1) Amino acids in finger prints O) Urea in finger prints	-
108. The aging process of fingerprint impre Narrowing of the fingerprint ridges 3) Increasing stickyness of the print	2) Broadening of the fingerprint ridges
109. The Galton-Henry system of fingerprin Anthropometric system 3) Single digit fingerprint system	<u>-</u>
110. The appropriate microscope used for t	he examination of birefringent minerals
present in the soil is: 1) Scanning electron microscope 3) Stereoscopic microscope	2) Transmission electron microscope A) Polarizing microscope
111. Comparison of rifling marks on crime using:	and test bullets can best be performed
1) Comparison microscope 3) Binocular microscope	Compound microscope Stereoscopic microscope
	magnifying power increases (iii) Depth of agnifying power (iv) The depth of focus is
1) (i) alone is correct 3) (i), (ii) and (iii) are correct	2) (i) and (ii) are correct 4) All are correct
113. The nature of illumination required to	study a transperant specimen using a

2) Vertical illumination 4) Both (B) and (C)

compound microscope is:

Transmitted illumination
3) Reflected illumination

14. An optical instrument that uses a lens of resolve fine details of an object is :	r a combination of lenses to magnify and
1) Macroscope	2 Microscope
3) Photo micrograph	2) Microscope 4) Microphotograph
15. The microscope which can be used as a suspect has recently fired a gun is:	•
Scanning electron microscope coupled with X-ray analyser	2) Transmission electron microscope
3) Microspectrophotometer	4) Atomic force microscope
16. In polarising microscope, when the pola specimen is in place, the field appears:	rizer and analyser are crossed and no
1) Dark	2) Bright
3) Brown	4) Multi-coloured
17. Consider the statements: (i) A simple m magnifying glass (ii) In simple microsco stage (iii) In a simple microscope, a virtu microscopes are low power types. Of the	pe, magnification takes place in a single ual image is formed (iv) All modern simple
I) (i) alone is correct3) (i), (ii) and (iii) are correct	2) (i) and (ii) are correct A) All are correct
18. The size of the specimen area in view is	known as :
Field of view	2) Depth of focus
3) Magnification factor	4) Magnifying power
19. The compensator slot is placed above th	e objective in :
1) Compound microscope	2) Stereo microscope
7) Polarizing microscope	4) All the above
20. Petrographic microscope refers to:	
1) Scanning electron microscope	2) Polarizing microscope
3) Microspectrophotometer	4) Stereo microscope
21. The objective is placed below the specim	nen in :
1) Inverted microscopes	2) Compound microscopes
3) Stereo microscopes	4) Petrographic micrcoscope
22. The conductive material used for coatin under SEM is :	g non-metallic samples for examination
1) Gold	2) Iron
3) Copper	4) Lead
23. Polygraph diagnosis would be seriously 1) Not conducted in a quite, private, semi- sound proof room 2) Conducted in the appearance.	and the second s
3) Conducted in the presence of investigators or other spectators in the examination room itself.	A) All the above

	responds move to the relevant (issue) questions II) questions, the subject is considered as :	
Not telling the truth 3) Nervous	2) Truthful4) Over responsive	
	tion, which are about an act of wrong doing of issue under investigation, but are not related to	
1) Relevant questions3) Irrelevant questions	2) Control questions 4) None of these	
measured by:	ual subjected to polygraph examination is	
7) Pneumographs 3) Somnograph	2) Galvanometers4) Voice stress analyzer	
1) Aural techniques 3) Both (A) and (B)	ed voice samples, forensic examiners apply: 2) Visual techniques 4) None of these	
1) is simply a graphic display of the unicharacteristics of the voice 3) could provide a valuable means of personal identification	ique 2) is simply a graphic display of the class characteristics of the voice	
29. The response of a truthful person is decamination is termed as:	letermined to be deceptive during polygraph	
 False negative Positive 	2) False positive 4) None of these	
30. It is required for any new technique to be generally accepted as reliable in the scientific community in which it is developed before being accepted as evidence before the court of law. The above requirement is stipulated in:		
 Card test Rule of discovery 	2) Frye's general acceptance test 4) None of these	
31. Consider the statements: (i) The acoustic output of a vocal tract is uniquely determined by its shape and size. (ii) The individuals with differently shaped vocal tracts will output different acoustics for the same linguistic sound (iii) Individuals who do not differ very much in vocal tract dimensions will also tend to differ less in overall acoustics. (iv) The acoustic output is independent of the shape and size of the vocal tract. Of these statements:		
1) (i) alone is correct 37(i), (ii) and (iii) are correct	2) (i) and (ii) are correct4) All are correct	
132. Absence of voice bars in sound spects1) Silence3) Absence of vibration of vocal cord	rogram indicates: 2) Pause A) All of these	

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	unintentionally altered by the speaker be of stress or fear (ii) State of health, tobac affect the perpetrator's voice (iii) The per the voice and language (iv) The perpetrate statements:	cause of peculiar psychological conditions co and psychotropic substances may also petrator's may also deliberately modify
	1) (i) alone is correct 3) (i), (ii) and (iii) are correct	2) (i) and (ii) are correct A) All are correct
	The dynamic range of normal speech sign 1/60 - 70 dB 3) 80 - 100 dB	al is: 2) 40 - 60 dB 4) 60 - 100 dB
135.	The mechanical function/s involved in the 1) Phonation 3 Phonation and articulation	e speech production is/are: 2) Articulation 4) Both (A) and (B)
136.	Step length has been utilized to estimate: 1) The weight of the individual 3) The age of the individual	2) The height of the individual 4) The sex of the individual
137.	While taking photograph of the foot print aligned:	t impression, the camera should be
/	1) Absolutely parallel with the surface of the impression 3) at 20° with the surface of impression	2) at 10° with the surface of impression4) at 30° with the surface of impression
138.	Wear characteristics of foot wear are:	4) at 30 with the surface of impression
	that are observable in the impression and known shoe	2) the changes in the surface of the outsole particularly in the heel area
	3) the changes in the surface of the outsole particularly in the toe area	4) the changes in the surface of the outsole particularly in the arch area
139.	When a random characteristic in foot were 1) it is still useful as an identifying characteristic	ar changes its appearance, then: 2) it is not useful as an identifying characteristic
	3) it can be associated with the characteristic	4) it can be positively associated with the characteristic
140.	One of the following is not a criteria of a	3
	1) It should be capable of reproducing fine detail	2) It should be able to be cleaned without loss of details
	3) It should set in a reasonable time	A) Should require special equipment and complex procedure
141.	Electrostatic lifting method of dust prints	
	1) USA 3) China	2) India #Y Japan
142.	While taking cast of footprint with dental 1) recommended	•
/	2) not necessary	4) detrimental to the cast

SCIENTIFIC ASSISTANT - FORENSIC SCIENCE 143. Dry residue footwear impressions can be visualised with: Oblique bright flood light 2) Overhead flood light 3) UV light 4) IR light 144. Stones are chemically identical to the: 1) Plasters 2) Silicone 4) Moulage 145. Dental stone and die stone casts are best cleaned in: 1) Calcium Sulphate Solution 2) Calcium Chloride solution 3) Potassium chloride solution 4) Potassium sulphate solution 146. Impressions in snow can be cast with: 1) Snow print wax 3) Paraffin wax 147. In addition to the tread patterns other data that can be derived from the tyre impressions are: Wheel base and tyre tread stance 2) Wheel alignment and tyre length measurements measurements 3) Wheel height and tyre width 4) Wheel dimension and tyre width measurements measurements 148. The common foot angles are: Acute angles 2) Obtuse angles 3) Right angles 4) Triangles 149. Acceleration marks appear: I) dark at the beginning and becomes lighter2) light at the beginning and becomes darker as mark continues as mark continues 4) darker 3) lighter 150. A skid mark is an example of: 2) photographic evidence A) evidence in vehicular accident 1) recognizable evidence 3) physical evidence 151. The first fractures that appear on the surface opposite to that of the penetrating force is: 1) Concentric fractures 2) Reverse side fractures

4) Radial fractures

2) Ovoid

2) Pistol4) Shot gun

4) Irregular

3) Back side fractures

153. Wads are found in the cartridges of:

1) Elliptical

3) Spherical

3) Revolver

1) Rifle

152. When a blood drop falls in air its shape will be more or less:

SCIENTIFIC ASSISTANT - FORENSIC SCIENCE 154. Irreversible work simply means in conservation of energy law: Some energy is used for a particular 2) Some energy is used for a particular process, it cannot be converted back into the process, can be converted back into the kinetic energy kinetic energy 3) total energy used for different process. 4) total energy used for different process, can be converted back into kinetic energy cannot be converted back into kinetic energy 155. One could identify the type of vehicle involved in the accident by: 1) measuring the length and width of all the 2) take close-up photographs to record tread tyre marks found at the scene patterns \mathcal{S}) Both (A) and (B) 4) None of these 156. While investigating hit and run road accidents, the most effective clue material one can collect from the scene of crime to identify the vehicle involved will be: 1) Paint flakes 2) Broken pieces of head lamp glass 3) (A) and/or (B) 4) All the above 157. In case of hit and run road accident, which of the following will be useful in identifying the vehicle involved? 2) Tyre mark in mud 1) Skid mark in oil 4) Skid mark with sideward drag 3) Skid mark in metal road 158. The device called Electrostatic Detection Apparatus (ESDA) is used in detecting: 1) Indented impressions 3) Embossed impressions 2) Carbon copy impressions 4) None of the above 159. Erasures in documents can be detected by -2) Examination under UV light 1) Examination under a microscope A) All of these 3) Examination under oblique lighting 160. While obtaining the standard or request writing form the accused -2) The text should be read out from a 1) The text should be dictated from a prepared text similar to the questioned newspaper document 4) None of these 3) The text should be dictated to the instructions on capital and small lettering 161. For comparison, known writings of the suspect furnished to the examiner should be As alike as possible to the questioned 2) It should be in English only 4) None of these 3) It should be written in pencil only

2) Fractional distillation method

4) Electrophoresis method

2) Cartridges

4) Base of the bullet

162. Many ink dyes can be separated by the technique of:

163. Extractor and ejector marks are found on:

1) Density gradient method

37 Thin layer chromatography

1) Fired bullet

37 Fired cartridge case

SCIENTIFIC ASSISTANT - FORENSIC SCIENCE 164. The DNA profile will be same for two individuals, when the individuals are: If Identical twins 2) Fraternal twins 3) Twins in general 4) Triplets in general 165. All members of a maternal lineage will share the same : I) mtDNA sequence 2) hypervariable regions 3) Both (A) and (B) 4) None of these 166. It is possible to individualize dried blood stains by: 1) Absorption elution technique 4) Blood enzyme studies 3) HLA typing 167. DNA typing can be useful in: 2) rape investigation 1) establishing paternity 3) establishing identify of decomposed dead A) All the above bodies 168. When seminal stained clothes are recovered form the victim, the control specimen to be collected from the suspect are: Y) blood and saliva 2) semen and saliva 3) blood and semen 4) blood, semen and saliva 169. Rh antigens are present in: 2) Red blood cells 4) Serum 1) White blood cells 3) Platelets 170. The ABO antigens are present in the RBC in the: 1) inner core along with haemoglobin 2) haemoglobin 3) surface 4) All of these 171. The lethal effect of explosive: 2) Shock wave 1) Heat AY'All of these 3) Sharpnel 172. ANFO is an acronym for: I) American North Forensic Organization 2) Aluminium Nitrate Ferric Oxide 4) Atomic Nuclear Fuel Organization 3) Ammonium Nitrate Fuel Oil 173. Bombs and ammunition with high quality finish and with service markings are: 2) Military Ammunition 1) IED 4) Terrorist ammunition 3) Improvised ammunition 174. An explosive is: Material that undergoes a rapid 2) Material that undergoes a rapid endothermic reaction exothermic reaction

4) None of these

4) Fire

2) Remnants of explosives

2) Smokeless powder 4) Dynamite

3) Both (A) and (B)

1) Flashless powder

7) Pitting
3) Crater

3) Gelatin

175. Secondary fragments are:

176. Single bsae Nitro cellulose propellant in colloidal state is:

4) None of these

2) Enamel

4) Cuspid

is the white hard tissue that covers the grown of the teeth.

3) Cuticle

1) Dentin

3) Cementum

SCIENTIFIC ASSISTANT - FORENSIC SCIENCE

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190. Human hair and animal hair with root can be differentiated by:		
1) Benzidine test	2) Ducquenois test	
Precipitin test	4) Berbano's test	
191. Sisal is classified as:		
1) Bast fibre	2) Seed hair	
27 Leaf fibre	4) Animal fibre	
192. Detonation needs:		
1) Oxygen from atmosphere	2) Oxygen from within the explosive mixture	
3) A shock wave	4) A sound wave	
193. The main objective of arson investigation	is:	
To find out origin of fire	2) To over see fire fighting operations	
3) To assess the value of the materials burnt	4) To have discussion with the spectators around	
194. The motivation/s for Arson is/are:		
1) Financial profit	2) Revenge and vandalism	
3) Crime concealment	4) All the above	
195. The bright colour emitted by the Oxyacet		
1) Glowing fire	2) Flaming fire	
3) Ignition	4) Combustion	
196. The decomposition of organic matter by h	eat is called :	
I) Hydrolysis	2) Putrefaction	
2) Pyrolysis	4) Combustion	
197. The material used to start or sustain fire	s known as :	
1) Accelerant	2) Retardant	
3) Catalyst	4) Explosive	
198. The concentraion of CO in blood is an im deceased was -	portant factor in determining whether the	
1) alive after the fire	2) dead prior to fire	
3) alive during the fire	A) dead prior to fire or alive during fire	
199. Long and bottle necked cartridge cases are meant for:		
1) Low velocity weapons	2) High velocity weapons	
3) Medium velocity weapons	4) Shotgun	
200. Components of fire:		
Heat oxygen and fuel	2) Heat hydrogen and fuel	
3) Oxidant, reductant and fuel	4) All of these	

				Version-1	7100101	Date Of Examin	ation:	02-06-2013 FN	
Co	de	FS1	3			Mark:	300		
1	Α -	41	D	81	A~	121	A.	161	B_
2	A 🛩	42	D.//	82	C/	122	A#	162	Α/
3	Cyrr	43	A٠	83	D	123	D =	163	D⁄
4	B 💅	44	A.	84	C~	124	A-	164	De
5	В	45	B	85	A <	125	B	165	D'
6	B/	46	D	86	Dr	126	\mathbf{A}^{x}	166	A
7	A	47	A.	87	C.v.	127	C∜	167	C
8	B	48	C~	88	$B^{\omega^{\omega^{\omega}}}$	128	D.	168	A -
9	D	49	A-	89	C 💆	129	B^{ω}	169	B
10	C-	50	C-	90	C/	130	B ⁄	170	C -
11	B∉	51	C-	91	C/	131	$\mathbf{C}^{\omega^{*}}$	171	C
. 12	B 🗸	52	В *-	92	A#	132	D~	172	C/
13	C-	53	Α ~	93	C-	133	D~	173	A /
14	B	54	C~	94	A	134	A -″	174	D#
15	B.	55	D-	95	A≈	135	C-	175	B /
16	B⊸^	56	D	96	B	136	C	. 176	C
17	B∉	57	Α	97	$C_{\mathbb{A}_{\mathbb{Q}}}$	137	B_{μ}	177	Α
18	D ""	58	D~	98	A/B ₫	138	A-^	178	D/
19	Α	59	A-	99	A.	139	D٠	179	B≈
20	A ~	60	D/	100	B./	140	В ∕	180	Α
21	B	61	D~	101	C	141	A 🐔	181	В
22	B	62	B-	102	B⊬	142	C 🐔	182	A
23	D	63	C	103	C 🔨	143	C	183	A
24	C	64	D	104	Α-	144	Α-"	184	В 🖑
25	B ∕	65	A	105	D/	145	A	185	D.
26	Danish	1_66	B	106	Α	146	B″	186	D#
27	D۰	67	D	107	C	147	D	187	C
28	C#	68	A-M	108		148	Α	188	A.
29	C.	69	D-	109		149		189	
30	B	70	C~	110		150		190	
31	D~^^	71	B	111		151	D	191	
32	A-	72	Β.∞		B″	152	C/	192	
33	Α	73	В-⁄		A		B-**	193	
34	B~	74	D	114			Α	194	
35	A	75	D√	115		155	A_		D."
36	C.v.	. 76	B≠	116		156	B~	196	D^^
37	A.	77	C~	117		157	C#		C.
38	B∞	78	B⁄	118		158	C/	198	D^
39	B~	79	A-^;		C	159	B~		A °°
40	C/	80	Α ~	120	B∞	L-460	D-	200	C/

Scientific Assistant Grade-II									
				Version-2		Date Of Examin	ation:	02-06-2013 FN	
Cod	е	FS1	3	guide A series		Mark: 3	300		
1	A₽	41	C 🚈	81	A	121	A year	161	D
2	D 2000°	42	C was	82	Barrell	122	D	162	D/
3	D =	43	В	83	B	123	D	163	A 🚧
4	c -	44	B≈	84	A	124	A	164	A -
5	Carre	45	B	85	Α	125	Davin	165	A. See
6	A-	46	A≠	86	Care	426	A	166	A ~
7	A	47	D	87	C-	127	D/	167	Barre
8	B	48	A	88	D″	128	Α	168	C~
9	В	49	$D^{w^{a}}$	89	C 2008	129	C^{states}	169	D~
10	D	50	D	90	A	130	A	170	Busera
11	D ramon	51	Awa	91	A	131	B	171	Α
12	D	52	B	92	Distrib	132	A™	172	C
13	D	53	A	93	B	133	Carre	173	D
14	A	54	C amount	94	C	134	D_{mass}	174	C~
15	B	55	C	95	C 🐃	135	B-	175	B
16	C ==**	56	Bℯⅇ	96	B	136	C	176	B
17	A	57	C_{rors}	97	C est	137	A_{m}	177	D ·
18	B✓	58	C	98	C	138	D	178	D
19	Basil	59	C ammon	99	A	139	B	179	B≈
20	C	60	A	100	A 🖍	140	A 🥒	180	B
21	D₽	61	Curin	101	C	141	C 🛷	181	D‴
22	Aسه	62	A-	102	A.	142	В	182	D
23	C *	63	B₩	103	B™	143	A	183	C
24	B	64	D ***	104	D.	144	B	184	D ****
25	Α 🗝	65	Bessel	105	D‴	145	D	185	A
26	A	. 66	Aా	106	C	146	A	186	B∽
27	A≈	67	Assert	107	A	147	A ~	187	B
28	B/	68	D	108	D	148	C ₹	188	D ====
29	C ===	69	B	109	B	149	C	489	B
30	B‴°	70	A	110	C/	150	۲ فسير	190	C
31	B	71	C ***	111	B∞∞	151	$D^{\mathcal{O}^{\mu^{k}}}$	191	A
32	C	72	Barre	112	A	152	A	192	A
33	A 🚧	73	B	113	A~	153	A	193	C
34	Comme	74	Camp	114	B~	154	A^{attr}	194	B∽
35	_D	75	D	115	B	155	A 🚧	195	Busine
36	C	76	D~	116	B⁄	156	B	196	A-
37	A ^{ref}	77	B≁″	117	A	157	B-	197	A-
38	C.	78	D∞	. 118	C 🥙	158	₿-	198	D
39	C ****	79	D===	119	B.∞	159	A/B~	199	A~
40	A 🖑	80	D 🧬	120	C	160	В‴	200	A۳۳

•	Code)	FS13	3 Sparker	Version-3	pp the second se	Date Of Examin Mark: 3	ation: 300	02-06-2013 FN	September 1
	1	A	41	C A	81	Comme	121	D/	161	Circums
	2	A	42	D/	82	В	122	C	162	B ‴
	3	В	43	A	83	A ···	123	Α	163	C
	4	A	44	Chine	84	Вания	124	A	164	Descrip
	5	Dave	45	В	85	Α ∽	125	Α	165	A
i	6	B	46	C sussession	86	В	126	D	166	D.
	7	A serve	47	Α	87	B	127	B	167	B
	8	D ===	48	B	88	D.	128	D 📨	168	A Super
!	9	C	49	B	89	D	129	В	169	C
	10	C	50	A	90	Barret	130	Come	170	C
	11	D=	51	A 🚧	91	D garagania	131	A	171	C
	12	D-	52	A	92	Dogwood	132	В	172	B
	13	C	53	A	93	B✓	133	C	173	C
	14	C/	54	$D^{w^{g^{N^2}}}$	94	C	134	D/	174	B
	15	A	55	D	95	C -	135	A	175	B
	16	A	56	B	96	B	136	C	176	Beisen
	17	A	57	A control	97	D	137	A	177	Carre
	18	A	58	B	98	Carran	138	Davidor	178	B✓
	19	B	59	A	99	В	139	$B^{2^{2^{-1}}}$	179	B
;	20	Carrena	60	D amo	100	Α 🦳	140	Α 🛩	180	C
:	21	D appearance	61	C	101	A	141	B	181	D
:	22	C	62	B‴	102	D ****	142	D	182	Commen
:	23	A	63	A	103	A	143	B. enter	183	C
. 1	24	C.	64	A	104	B	144	Comme	184	A
1	25	A	65	A warned	105	B	145	C	185	C
:	26	A	66	D assession	106	D	146	A	186	A
2	27	B	67	A	107	D	147	B	187	B
:	28	C	68	C	108	A	148	D	188	В‴
2	29	Α-	69	$D^{\omega_{m_n}}$	109	D .gade'	149	$A^{\omega^{\mu^{\mu^{+}}}}$	189	Α
	30	A seed	70	D		B		A/B-		A
	31	D defer.	71	A	111		151	A		A
	32	Append	72	D source		B∞	152	B≈n		B
	33	Bereze	73	A:		C		A		A
	34	D	74	Azer		B₩	154	Α		D summer
	35	D. south	75	B~		D	155	D=		C
	36	B.	76	Axee		В	156	В	196	
	37 ~~~~	B,/	77	C green		C	157	C		A
		D	78	A		B	158	A		C
	39	A seed	79	C		D-	159	D.		B∞∞
4	40	C	80	C	120	C same	160	$C^{\omega_{\Sigma_0}}$	200	A

				Version-4	ASSISIO	Date Of Examin	ation:	02-06-2013 FN	anguarus.
Cod	е	FS1	3 ,	Version-4			300	02-00-2010 TN 5	ie.
	C ,				.				متحتوان الم
1		41	B _e eeee	81	B [}] ∕	121	CX	161	A >~~
2	C	42	D×	82	B ^A	122	В		3.
3	Culy To Not	43	B / √	83	D*₹	123	DX*	163	B.
4	B⊁	44	B*‴°	84	в₹	124	D×	164	ВЖ
5	D	45	B	85	Α×	125	B⊀	165	ВА
6	A when	46	C	86	A.A.	126	Confe	166	A-
7	B	47	C.	87	в≺	127	D****	167	C
8	Α 🥍	48	C.	88	A	128	D.M.	168	C
9	CÀ	49	D	89	AT	129	D	169	A
10	C	50	B≫	90	$A \times$	130	ВЖ	170	ВЖ
11	A	51	вΥ	91	A	131	Α×	171	B×
12	D	. 52	A	92	ВЖ	132	D≫	172	C
13	D	53	D ³ , "	93	DΧ	133	в∕к	Harman	DA
14	A)	54	B	94	DΫ́	134	ВЖ	174	A
15	A	55	Α÷	95	D	135	DΥ	175	B₩
16	B	56	A^{\times}	96	$B^{\mathcal{H}}$	136	A	176	D\
17	C	57	D₩	97	A 🐣	137	A	177	A.
18	Ç	58	D	98	C ≯	138	D.	178	Α×
19	C~	59	B	99	ВЖ	139	B	179	В🥀
20	B	60	Α÷	100	CY	140	A	180	A 🔫
21	D×	√6 1	C	101	D	141	A	181	C
22	C	62	A	102	ΑÀ	142	DĄ"	182	A~Y
23	سلاD	63	C	103	C.*	143	B-\	183	C
24	A	64	C*	104	В	144	C-/	184	A 📉
25	B	65	D	105	B	145	C~	185	C-y
26	A	66	A^{X}	106	D	146	A	186	A.Y
27	C	67	B	107	AX	147	C*	187	A.~
28	D+	68	A	108	A.	148	A wife	188	ВЖ
29	A	69	B	109	C	149	D	189	B [×] √
30	C [™]	70	ВЖ		Α	150	ΑÀ		Α×
31	Α¥	71	D.		В		C×	191	A
32	ВЖ	72	DM		Α×	152	D≟	192	B⊹
33	C	73	В		A		C-	193	D-X*
34	A	74	D ·	114	c. 🔪		Const		C ->
35	D⊁	75	DΨ		DΥ		ВЖ		B
36	Demino	76	A		A		C.×		c 🛧
37	A	77	c*		C.		A×		B⊀
38	D.×	78	C*∕		A		A		A/B ₹
39	A surfess	79	c ²		В		D		A >
40	В	80	c.\tag		В		D. //		A, 4
	- \	7."	- 1	0	- 1	.50	- 1	230	- small

				Version-5	g propried	Date Of Examin	ation:	02-06-2013 FN	
Code	e	FS13				Mark: 3	300		
1	DX ·	41	A	81	В*	121	c米	161	DΥ
2	A.	42	В	82	DΥ	122	c [≯]	162	c\
3	B	43	C	83	C. Ame	123	B¾	163	A.A
4	D.	44	A×	84	D.Y	124	A^{\times}	164	A
5	A.	45	DΚ	85	A	125	c⊁	165	ΑÀ
6	B	46	В	86	D℀	126	B.	166	DΥ
7	B	47	D	87	A	127	$A \times$	167	C
8	B	48	AX	88	B₩	128	C	168	D
9	A	49	A	89	Α×	129	C 🖟	169	D¾
- 10	A	50	A	90	C-/	130	C [≯] (170	В🖑
11	C 🖑	51	C.≱	91	D×	131	CX.	171	ΑÀ
12	D 📈	52	B√	92	C~	132	·A [®]	172	C /~
13	C.	53	ΑX	93	B∜	133	A/B-	173	C-A
14	C	54	D	94	Α×	134	C	174	Α¥
15	D	55	D	95	B	135	в∜	175	B∕∕
16	B	56	C 🖟	96	Α ^N	136	D _y ,	176	В
17	B	57	c∤	97	B-X	137	B∜	177	A
18	AΧ	58	B₩	98	В	138	B₹	178	Α×
19	B♣	59	C/	. 99	Α×	139	C 🤻	179	A
20	в₹	60	A	100	в∜	140	C.≹	180	B ¹ ∕
21	A×	61	C	101	A	141	A	181	C 🔭
22	AX	62	В	102	DΫ	142	A	182	D)*
23	A	63	C-K	103	В	143	D*	183	A+
24	D¾	64	C*	104	В	144	A.A.	184	В⋛
25	A ³ ₹	65	A T	105	C.A.	145	A.Y	185	D*
26	D.*	66	B ³ ₹	106	D×	146	B*	186	A*
27	D	67	Cole	107	c+	147	c√	187	C.Y
28	A. \ C \	68	B	108	D*	148	C.A.	188	B ⁻ √
29		69	A ^A		AT	149			B 🔭
	B [≯]	70 74	D /		D.Y		D.X		c∛ o∨
	C ²	71	B-X		В	151	A.tr		D-Y
	B ^A	72 73	A.⊁ D.⊁		A*		D [*] √		B
	C-	73 74	B [≯] <		B		C/T		A ^N C
	A.	74 75	A-A		A. B.⊁		A*		A× D-
36	-	75 76	D*		в⊀		C-Y		D [*] √″.
	C.≽	77	D*		B t		AX		D.
	D.	78			B-		D.Y		
, L 39		79	C-Y		C-/		D	190	A+ A+
	A		D*		B×	160			B
70	1	50	- 4	120	-	100	~ /	200	-

Scientific Assistant Grade-II

				Scientific		nt Grade-II			
				Version-6		Date Of Examin	ation:	02-06-2013 FN	
Code	e	FS1	3			Mark: 3	300		
1	A	41	A	81	Cussia	121	Dalita	161	A assessor
2	D~	42	Garage Garage	82	B	122	B≪	162	A =====
3	Bission	43	Data	83	A	123	C =	163	A-
4	D _{att} erior	44	Distriction	84	C was	124	A	164	В
5	Daren	45	_ D	85	A.	125	Bassassas	165	B
6	B	46	Curinging	86	B	126	Banada	166	B
7	B	47	Dimenu	87	Cusama	127	— А «магай	167	B
8	A	48	Carrie	88	Guerraniage	128	C zame	168	B∞∞
9	Assert	49	Destroit	89	Cirilin	129	Aww	169	American
10	Cseede	50	A	.90	Assessor	130	D.	170	C
11	B	51	Burning	91	Dem	131	A most	171	A ····
12	B	52	Decreeises	92	C	132	A	172	D.
13	C	53	A	93	B	133	C	173	C-
14	D.	54	Commen	94	Cossissis	134	A.,	174	Descri
15	Beller	55	A	95	Aarenta	135	D	175	D
16	Amm	56	Banan	96	A	136	Desiran	176	A
17	C	57	C out	97	D ^{ago}	137	A	1-477	C
18	Barren	58	B	98	Arrania	138	D.	178	D
19	B	59	A	99	D-//	139	B/	179	D
20	D	60	Α	100	B	140	C	180	C
21	Barren	61	Current	101	D	141	$C^{\rm con}$	181	B
22	A 🚧	62	D	102	A	142	B	182	A
23	A	63	C	103	A	143	D	183	C
24	A warenist	64	C	104	Circuisto	144	B	184	Atomic
25	D	65	A	105	A	145	B≈	185	B
26	B	66	Dist	106	В	146	В	186	$B^{\omega s}$
27	A and the	67	C	107	A.	147	C	187	D
28	A	68	Custos	108	A	148	B	188	A
29	B	69	A		Curren	149	C	189	D
30	A	70	A warm	110	Caracti		A/B	190	Designation
31	Bester	71	A seem	111		151	Danie	191	A
32	C -	72	B‴		A		C simes	192	B
33	Curren	73	A_{surp}	113		153	Bern	193	B
34	D	74	Arch		D	154	$D_{m_{so}}$	194	A-
35	A	75	Azzirii	115		155	Come	195	C
36	D	76	B≠″	116.		156	B		C
37	Bureau	77	A *****		B		B		C
38	D	78	C	118		158			C
39	B	79	A		A reserve	159	В	199	B
40	D weeding.	80	D	120	Carolina	160	A	200	D spening

Version 1 Lot

Scientific Assistant Grade-II	And the second

				Version-7	,	Date Of Examin	ation:	02-06-2013 FN /	
Cod	е	FS13	3.	,		Mark:	300		
1	A	41	в	81	D AFF	121	C	161	D /
2	A	42	A safety	82	В	122	Bangara	162	B
3	CA	43	D	83	A/,	123	A de	163	A.
4	C	44	D	84	A .	124	A	164	Called
5	DX	45	A MARKET	85	B	125	Adda	165	c/
6	A	46	A/_	86	Carre	126	A	166	C/
7	A	47	в	87	B	127	C/	167	c
8	A	48	Α/	88	B	128	C 🖊	, 168	B
9	D.	49	Cade	89	A	129	B 📶	169	B
10	c/	50	в	90	A	130	C /	170	C defe
11	C	51	A/	91	A A	131	C/	171	A.
12	A	52	D/	92	В	132	C w	172	Cerman
13	A/ /	53	D	93	B	133	В/	173	A
14	A	54	c/	94	A A	134	A	174	A
15	c/	55	В//	95	В/	135	A	175	D
16	В	56	в/_	96	Barren	136	B€	176	D/
17	в/_	₹ 57	B/	97	B	137	В	177	A
18	D.	58	В/	98	A	138	D/	178	A
19	A	59	B	. 99	B.	139	Barren	179	A
20	C/	60	D	100	C/	140	В/_	180	Decision
21	c/_	61	C/	101	D#	141	Cape	181	C/
22	D	62	B	102	D.	142	A	182	B
23	B.	63	D.	103	Α/	143	A	183	C/
24	A.	64	A	104	A	144	В/_	. 184	В
25	B/	65	A.	105	B/	145	A	185	B
26	A.	66	D#	106	C/	146	A ^d	186	B 🖍
27	В	67	D/	107	D/	147	A	187	A
28	A	68	D	108	D/	148	C 🖋	188	D/
29	D	69	C/	109	D editor	149	B	189	C/
30	A	70	A		Carre	150	A. Carlo		c/
31	D/	71	D.	111	Contract of the Contract of th	. 151	D#	191	
32	B	72	D	112		152	D.	192	No.
33	A!	73	C.A.	113		153	c/	193	B/
34	D	74	C	114		154	A/	194	D
35	Α/	75 	D/	115		155	D/	195	c/
36	В	76	A	116		156	B	, 196	В
37	A/	77	D		C	157	B/	197	B/
38	A/	78	B	118		158	A/B/	198	A
39	c/_	79	D/	119		159	C /	199	B/
40	c/	80	D/	120	Dage	160	A	200	D/

		Scientific Assistant Grade-II							
Code	e	FS13	3 /	Version-8	···	Date Of Examin Mark: 3		02-06-2013 FN	
N. A. C.	B seement	41	Busselman	81	D &	121	C d	, 161	C statem.
2	В	42	B statement	82	A /		C Marie	<"	C **
3	A A	42	Comment	83	A STATE	122	C some	162	. Comment
4	C/	43	C	84	D.	123	D #	163	C entre
5	B ***	45	D	85	A/	124 125	C 🎤	164	di di
1_6	Aggreen	45 46	B &	86	D	125	D.	165 166	D 🖋
7	D	48 47	D francis	87	D.	127	В	167	D/
8	A	47 \48	D market	88	B	127	C.	168	B AME
9	C A	49	C A	89	C	129	A A	169	A
10	A /	4 9 50	В	90	A defended	130	c/	170	A
11	D	50 51	B.	90	D	130	A de	170	A A
12	В	52	A /	92	A	132	B.	171	B A
13	В	53	B	93	O.	133	A	173	c /
14	A	54	B	94	A	134	A	173	C
15	c/	55	Awaren	95	Busselin	135	A A	175	D ***
16	A selferture	56	A /	96	D and	136	D www	176	В
17	B	57	A	97	D	1-437	C species	177	A spinor
18	A	58	В/	98	_ D //	138	Carrent.	178	D salaman
19	C A	59	A	99	C 🖍	139	A A	179	A service.
20	C	60	B	100	D	140	A	180	D estero
21	D	61	Carrent	101	C	141	B	181	C
22	A	62	C	102	C 🚧	142	D	182	C
23	B	63	B	103	D ipposed in .	143	A	183	B
24	D Market	64	В	104	A	144	A	184	B
25	C	65	A designation	105	D	145	A	185	D
26	A	66	D.	106	B	146	Darasta	186	A production
27	c/	67	A special	107	C see	147	A	187	A/
28	O.	68	A	108	Basel	148	D P	188	В
29	A/B	69	D 🧖	109	A.	149	ell'		A
30	A A	70	D		В	150	D/		C della
31	A /	71	Beter		B gazaran	1 51	В		A seeming
32	B	72	D		D#	152	A _	192	
33	A 🎤	73	D		A	153	A		A/
34	C.	74	D#	114		154	-20	, 194	Beren
35	Ç/	75	Cale	115		155		195	Approx.
36	В	76	A shall	116°		156	36	196	Contract of the second
37	A A	77	A seeded	117		157		. 197	£.
38	c/	78	A	118		158	-	198	
39	C/	79	Α"		C M	159		ar e	A/
40	A A	80	D 🥖	120	B	160	B	200	C

Scientific	Assistant	Grade-II
	and the same of th	

			ar.	Version-9 /	and the same of th	Date Of Examir	nation:	02-06-2013 FN	September 1
Cod	e	FS13	Appendix of the same of the sa			Mark:	300		
1	A April	41	A	81	C/	, 121	B	161	c
2	C.	42	B	82	C de la constitue de la consti	122	A:	162	B
3	В	43	D M	83	C profession	123	A	163	A
4	C garage	44	A arm	84	D 🌌	124	A	164	A
5	D and	45	D.	85	Carren	125	C of	165	Berth
6	B	46	D defe	86	c/	126	c/	166	c 💆
7	A	47	A P	87	D	127	D sizzer	167	Carrie
8	A	48	C 🖋	88	A man	128	A A	168	D.
9	A service	49	C M	89	В	129	A	169	C
10	c/	50	Barran	90	C	130	D	170	B 🖊
11	В	51	B	91	D de	131	A =	171	A seemen
12	c/	52	c/	92	A	132	B	172	B 🖊
13	D/	53	В	93	c/.	133	A	173	A
14	В	54	В	94	A defe	. 134	Davos	174	C/
15	в	55	D#	95	Destation	135	D a	175	C Andrew
16	A/	56	A	96	A	136	A 🎻	176	A series
17	D.	57	B	97	Daren	137	A 🕖	177.	C ***
18	В	58	D/	98	D e	138	D	178	C A
19	D/	59	C 🚧	99	c 🗸	139	D 🚧	179	В
20	A	60	D 📶	100	B	140	D	180	Democra
21	B www.	61	B	101	C.	141	B	181	A Market
22	Capellaria	62	Α 🧖	102	Carrent	142	B	182	A defe
23	Com	63	B	103	D A	143	Beerra	183	C destruction.
24	C	64	B/	104	A	144	A	184	C 🥙
25	C.	65	A	105	D	145	A approximate	185	Bisser
26	A	66	C 🖋	106	В	146	В 🧖	186	C
27	D/	67	D **	107	B	147	Cale	187	A
28	A	68	A Marie	108	B.	148	C de la company	188	A second
29	B	69	B	109	C A	149	A 🖊	189	A A
30	A	70	A		B and	150	D	190	B
31	A street	71	A and	111	В	151	A /	191	B ***
32	C/	72	A statement	112	A.	152	В 🖊	192	D
33	В	73	Α 💆	113	B	153	D WAR	193	D
34	A seem	74	A	114	A.F.	154	B	194	Dave
35	B.	75	B ^d	115	1	155	B 🚧	195	В
36	D#	76	Dame	116.		156		196	A
37	В/	77	D	117		157	C	197	C/
38	D	78	D#	118		158	D A	198	A defe
39	A/	79	C	119	action.	159	A	199	C defeat
40	В	80	A /	120	A A	160	A/B »	200	D

				Scientific	Assistant	Grade-II			
			_	Version-10 /	Da	ite Of Examin	ation:	02-06-2013 FN	
Code	2	FS13				Mark:	300		•
1	D.	41	A	81	B	121	В	161	D part
2	C	42	A	. 82	C	122	A/	162	D/
3	B 🖊	43	В/	. 83	D/.	123	c/	, 163	C 🖋
4	B and the same	44	A was	84	D market	124	c/	/ 164	A
5	D/	45	B and	85	C	125	Department	165	c/
6	A,	46	A ***	86	A M	126	B	166	Azer
7	в	47	CAMP	87	A/ _	127	C/	167	C/
8	A/	48	A	88	A/	128	Dada	168	D.
9	в	49	c/	89	A	129	B	169	B
10	A/	50	A//	90	D/	130	В	170	A
11	c/	51	c/	91	A /	131	Α/	171	В
12	c/	52	A	92	в	132	D.	172	D/
13	c/_	53	A	93	в//	133	D^{I}	173	В
14	D/	54	A, and	94	A details	134	A	174	c/
15	D//	55	C	95	A.	135	c/	. 175	В
16	Carrent and	56	A de	96	D/	136	Azz	176	D seeker
17	C.	57	A/	97	B	137	A	177	Breede
18	c/	58	C amount	98	в	138	c/	178	A
19	A	59	A A	99	C 🌽	139	В	179	A/B
20	В	60	D/	100	D/	140	c/	/ 180	Department .
21	c//	61	C/	101	D#	141	в	, 181	c/
22		62	D/	102	A A	142	B	182	A
23	D	63	в	103	D//	143	B	183	B **
24	c/	64	В	104	c/	144	в/,	184	D/
. 25	A	65	B	105	Bakk	145	D/	185	A/_
26	c/	66	в/,	106	D	146	A Mercan	186	C/
27	в	67	в	107	A	147	A 🌌	187	A.
28	C A	68	D.	108	A A	148	A	188	A
29	c/	69		109	В	149	A	189	c/
30	В	70	D/	110	Barre	150	A	190	c/
31	c/	71	D//	111	A	151	D/	191	в/_
32	в/	72	Α/	112	A /	152	в/,	192	В
33	A A	73	D	113		153	в	193	A
34	A	74	D	114	$A/_{/}$	154	D/	194	D/
35	.B/	75	A	115	A	155	c/_	195	De j
36	в	76	c/	116	A/	156	D/	196	Adde
37	В	77	в/ /	117	-	157	/	197	B ^d
38	в	78	A	118	c	158	D/	198	в/_
39	c/	79	A	119	A	159	B	199	A/
/ 40	A A	1 80	D	120	Dudd	160	c/	200	C

				Scientific	: Assistant	: Grade-II			
				Version-11			nation:	02-06-2013 FN	
Coc	de ,	FS1	3 🗸			Mark:	300		
1	$_{B}X_{>}$	41	D 🔨	81	DX	121	DA	161	вХ
2	$\sim \times \sim$	42	c.X	82	вХ	122	вХ	162	S. James
3	D A	43	В	83	DX	123	DA	163	A
4	AX/	44	οX	84	в	124	c	164	σX
5	c×	45	$A\times$	85	AX	125	В	165	D
6	DΧ	46	вХ	86	DX	126	вХ	166	c 🖟
7	DΧ	47	D	87	вХ	127	c×	167	A
8	B	48	cX/	. 88	A×_	128	вХ	168	AX
9	AX	49	cX	89	c X	129	cX	169	A/B
10	c 🗶	50	вХ	90	вХ	130	ρX	/ 170	В
11	ВХ	51	C X	91	AX	131	A^{X}	171	D 📉
12	в	52	AX	92	A	132	вХ	172	ΑX
13	c	53	D	93	A	133	c/	173	AX
14	A	54	В	94	A A	134	DX	174	A
15	AX	55	c×_	95	A A	135	вХ	. 175	в
16	c 🔨	56	c X	96	AX	136	D⊀	176	В
17	D 🔪	57	σX	97	c 🖔	137	вЖ	, 177	C
18	В	58	В	98	В	138	вХ	178	в
19	c 📉	59	D	99	В	139	DX	179	c_
20	ВА	60	A	100	D	140	в	180	В
21	A X	61	D	101	c 🖔	141	Α×	181	cX
22	/	62	A	102	В	142	A	182	A
23	A	63	A	103	DX	143	C\	/ 183	A
24	D	64	c 🖍	104	c 🔨	144	A	184	A 🝮
25 26	AX	65	В	105	A	145	CX	185	C
26	cX	66	$\stackrel{A}{\sim}$	106	DA	146	C*	186	В
27 28		67 68	D	107	C	147	В	187	A
29	A	69	D V	108	AX	148	BX	188	,
30	в	70	DΧ	109	c ×		~ \/	189	
31	в	70 71	DΧ	111	N 1800	150	Β/ c/	190	AX
32	DX	72	вХ	112	AX	151 152		191	
33	AX	73	cX	113	вХ	152	cX	192 . 193	CA
34	ρX	74	AX	114		153	¥*	193	cX
35	AX	75	вХ	115		155	1	194	D X
36	AX/	76	DX	116	V	156		196	D X
37	c×	77	AX	117		157	× 1000	190	A
38	вХ	78	вХ	118	AX		DΧ		в
39	DΧ	79	σX	119	cX		cX		
40	вХ	80	сX	120	вХ	160	вХ	200	cX

,				Version-12	<i>,</i> 1001014111	Date Of Examin	ation:	02-06-2013 FN	
Cod	e y	FS	13			Mark:	300		
1	A.	41	D and	81	B w	121	В	161	D sources
2	В	42	/	82	D/	122		162	в/,
3	A	43	and the same of th	83	c /	123	Carada	163	c/_
4	B/	44		84	A 🕖	124	D	164	A
5	A.	45	c//	85	c/	125	D/	165	D exercise
6	D em	46	A/B	86	A -/,	126	В	166	O'
7	Α-	47	· c/_	87	D/_	127	A	167	A /
8	AC_{r}	48	в в	88	D	128	A	168	B
9	A/	49		89	D/	129	C M	169	A
10	B.	. 50		90	D.	130	A	170	В
11	B	51	A /	91	D/	131	Α 🛒	171	A
12	c/_	52	! B	92	c/	132	B	172	c 🥏
13	AZ _	53	A A	93	D/	133	A	173	A 🦢
14	B	54	A	94	A	134	В 🧪	174	A
15	B 🖑	55	i A 🗸	95	D'	135	c/	175	В
16	A	56	i B 🗸	96	B/	136	,c/_	176	A
17	D/	57		97	D.	137	В	177	c/_
18	c/_	58	-5	98	В/_	138	A -	178	в/_
19	A	59	1	99	A /	139	c/_	179	c/
20	A	60		1100	D /	140	В 🦳	180	·B/
21	D/ /	, 61	peter.	101	A	141	Α _	181	B
22	c/	62	A. C.	102	D	142	В	182	D
23	c/ -	63	1	103	A.	143	D	183	D
24	C	64		104	D/	144	page 1	184	B 🖊
25	c/	65		105	Α΄	145	A	185	C/
26	A /	66		106	C″_	146	D#	186	c/
27	A/ .	67	Sept.	107	D#	147	D/	187	В
28	D'	68	/	108	D/	148	В/	188	A .
29	B C	69		109	B/	149	B/	189	C*
· 30	A Z	70			A		B /	190	· skere
31	A	71 72		111		151		191	B T
32 33	D/	72	I	112	part of	152	p. c.	192	C/D/
34	C/	73 74	1	113 114	C/ D/	153 154	A /	193	C
35	Α	74 75		115	A /	155	A	194	B/
36		75 76	200	116		156	and the state of	195 196	D//
37	В	76	,	117	c/	157	c.	196	c
38	c /	78		117	B A	157	B	197	A /
39	A ^s	70 79	1	119	В	159	D /	199	A -/
40	В /	80			В/	160	/	200.	
-		30	- •	.20		.55	-	200	. ,

				Version-13	D	ate Of Examin	ation:	02-06-2013 FN	
Cod	le	FS13	3			Mark:	300		
1	C ***	41	A /	81	C parameter 1	121	В	161	В
2	C	42	В-	82	C	122	A-/	162	A
3	C and	43	В	83	D	123	D /	163	A
4	C/	44	В	84	D	124	A /	164	Def
5	C	45	A /	85	c/	125	A	165	D and
6	D and	46	A /	86	D	126	A	166	A
7	C	47	D.	. 87	A	127	D/	167	В
8	Carren	48	C seeming	88	A /	128	C -	168	B 🖊
9	A	49	A	89	D/	129	в	169	A
10	A	50	C 📶	90	В/	130	D	170	c/
11	B	51	c//	91	A	131	A 🗸	174-	A
12	D ****	52	D	92	A	132	В ~	172	B
13	A	53	В./	93	В	133	C	173	A -
14	В	54	B	94	D -	134	D	174	A -
15	B	55	A-	95	D-/	135	D e	175	D
16	В	56	В	96	C	136	D	176	B
17	. A	57	A/_	97	A /	137	B/	177	A=
18	A de	58	A	98	D/	138	c/	178	B
19	D/	59	В	99	В	139	В	179	A
20	D	60	B 🖊	100	D	140	В	180	в
21	0/	61	A	∗ 101	A	141	A /	181	B —
22	c/	62	Α	102	Α -	142	в	182	Α _
23	Carren	63	D.	103	A/B	143	A *	183	A
24	D /	64	Α	104	A /	144	C	184	В
25	D	65	C		A	145	D	185	A white
26	C.	66	D/	106	A/	146	A me	186	C /
27	D /	67	C/	107	D =	147	0/	, 187	D
28	C	68	D	108	A	148	c./	188	D/
29	0//	69	B#	109	A was	149	Comme		A -
30	В	70	D w	110	all."		c/		D.
31	B	№ 71		111	1	, 151		191	D
32	В	72	B	112	C 🗸	152	В -	192	A seed
33	C/	73	C/	113	B eee	153	A /	193	C
34	В	74	C/	114	5	154	C	194	B
35	A	75	A		1		A	195	C
36	A see	76 	A	116	Sp. Co.	156	C	196	Carre
37	B ****	77	В	117		157	D specific	197	B
38	A	78 	c/	118	profess.	158	A	198	B
39	B	79	D.	119	C A	159	B/	199	C
40	B 🗸	80	A -	120	D and	160	Bass	200	Α –

				Version-14				02-06-2013 FN	
Cod	le	FS13	3			Mark:	300		
1	A/B	41	D /	81	c/	121	A /	161	в
2	A -	42	в	82	в	122	Α	162	A
3	c 🗸	43	в/	83	D /	123	c /	163	D /
4	c	44	В	84	D://	124	D/	164	A /
5	в/	45	Α 🗸	85	в	125	c /	165	D 🖊
6	c /	46	D /	86	A	126	в /	166	C - Bernell
7	c 🗸	47	c /	87	в	127	D/	167	A
8	A /	48	c 🥠	88	c/	128	В	168	D /
9	A /	49	c 🔨	89	c 🗸	129	Ċ	169	A
10	A 🧖	50	A	90	A /	130	Ċ/	170	В
11	A /	51	В	91	D/	131	A /	171	C 🕖
12	c/	52	в /	92	D 🧸	132	D /	172	в (
13	c /_	53	В	93	c 🗸	133	В	173	в
14	c 🗸	54	A /	94	A <	134	в	174	c /
15	D.	55	c 🗸	95	D	135	A /	175	c./
16	D /	56	D/	96	c /	136	c /	176	C
17	D (57	c /	97	c/_	137	В	177	C
18	D 🗸	58	В	98	В	138	A . <	178	В
19	A 🗸	59	A	99	A	139	C 🗸	179	c 🔨
20	D. 💋	60	D 🔧	100	A	140	A 🗸	180	в
21	A /	61	D/	101	A /	141	C. /	181	в 🕖
22	В. /	62	c 🥠	102	В	142	В. 🗸	182	A defended
23	C /	63	D /	103	B /	143	В /	183	A /
24	A /	64	D/	104	B war	144	D. /	184	A/
25	Α 🥓	65	A /	105	B /	145	c/	185	A 🥠
26	A /	66	В 🥠	106	В	146	A /	186	в 🔨
27	В/	67	D 🗸	107	$A \subseteq$	147	C -	187	Α 🧖
28	c /	68	A ·	108	B &	148	В	188	D 🥠
29	В /	69	A /	109	Ď 🥠	149	A -/	189	В
30	,	70	A 🗸		A 💆		в	190	c 🗸
31	`A ()	71	A /		D/	151	в	191	B
32	D 🧷	72	c/_		$A = \frac{1}{2}$	152	В	192	D 💆
33	A/	73	в		A	153	В 🗸	193	c /_
34	D 🗸	74	В	114		154		194	D 🗸
35	ç /	75	в		D 🗸	155		195	A 🖍
36	D/	76	A		D/	156		196	A 🥖
37	D/	77	В	117		1457		197	D American
38	D 🖋	78	A 🗸	118	200		A	198	c /
39	D #	79	B		Α',		A	199	A /_
40	в /	80	À /	120	D/	160	A /	200	C.

Code)	FS13	;	Version-15	70010ta		ation: 300	02-06-2013 FN	
1	D/	41	в 🗸	. 81	D .	121	c -	161	c /
2	Com	42	D.	82	A-//	122	A -/	162	В
3	AZ	43	В	83	A	123	c -/	163	A
4	A A	44	A /	84	В	124	B Surveyor	164	В
5	В	45	D/	85	A /	125	D/	/ 165	D
6	c:/	46	A /	86	B /	126	c/	, 166	A
7	B-/	47	c//	87	D/	127	D/	167	c/.
8	В	48	c/	88	D -	128	c /	168	c/
9	В	49	A /	89	В	129	c/	169	A/_
10-	в /	50	D/	90	C	130	A	170	в
Landy Marie	D/	51	в/_	91	D/	131	A /	171	B
12	D-	52	A	92	A	132	c/	172	D 🤨
13	B.	1_53-	A /	93	в/_	133	A./	173	A
14	c/	54	A	94	A	134	в	/ 174	D
15	.c//	55	В/	95	c.	135	B and	175	C
16	В	56	В/	96	D.	136	c –	176	A-
17	D/	57	C /	97	A.	137	A	177	A
18	A	58	A/	98	B .	138	c/,	178	В
19	C/	59	в/	99	c 🖊	139	.A 🖊	179	A.
20	B/ /	60	D /	100	A	140	D more	180	в/
21	B 🗸	61	В 🖊	101	В	141	A/B~	181	В
22	D and	62	c/	102	D	142	A /	182	c/_
23	D/	63	В	103	в/	143	D =	183	C de
24	В	64	D	104	B	144	В/	184	A/
25	в/	65	Α 🥤	105	В 🗸	145	в/	185	A//
26	C/	66	В	106	A /	146	c/	186	C 💆
27	A /	67	D	107	D /	147	A /	187	В/
28	D/	68	D Ć	108	A/	148	c_	188	C
29	B Z	69	В	109		149	Α/	/ 189	
30	B/_	70	Campe		A 🗹	150			C
31	A.	71	C		D	151		191	
32	D	72	A	112	/	152		192	-
V-33		73	D -	113	/	153		193	
34	D/	74	A	114	/	154	1	<i>r</i>	A#
35	C.	75	B	115		155	D /	195	· ·
36	A	76	A.	116	ale of	156	D ****	196	B
37	D	77	B	117		157	c/	197	C
38	A ^r	78	D/	118	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	158	s**	198	/
39	A	79	D/	119	/		c/	199	A'
40	C./	80	D 🥕	120	A /	160	A /	200	D

				Version-16		ate Of Examir	nation:	02-06-2013 FN	
Cod	e	FS13	3			Mark:	300		
1	c	. A1	В	81	D was	121	В	161	A
2	C administra	42	В	82	C	122	A war	162	Α
3	C 🗸	43	D	83	C	123	C ~	163	c /
4	A A	44	D	84	Α	124	C america	164	В
5	C 🖍	45	A	85	В	125	A	165	C
6	D amount	46	В	86	В	126	В 🦳	166	D www.
7	B 📈	47	B	87	D	127	В 🥌	167	В
8	A	48	Α 🦯	88	A .	, 128	A	168	C
9	Α-	49	c/ ,	89	A	129	В 🦯	169	A
10	В 🦯	50	A /	90	A	130	Α	170	В
11	В 🦯	51	C L	91	Α	131	D 🦯	171	В
12	C 🎺	52	Α	92	A L	132	A ************************************	172	A
13	Α	53	C ·	93	D	133	C deserving	173	D -
14	B 🥕	54	c/	94	В	134	D/	174	A
15	В	55	A september 1	95	В	135	D 🦟	175	A
16	B	56	A manage	96	В	136	D ~	176	B
17	A -	57	c/	. 97	A ·	137	C	177	C
18	B/	58	B.	98	Dames and a	138	D	/ 178	A Lundy
19	D -	59	C	99	C	139	A	179	D
20	C-service and	60	В/	100	A -	140	A	180	В
21	В 🧪	61	D	101	A	141	D —	181	C source
22	A	62	D-	102	D _	142	A —	182	C
23	D	63	A -	103	C 🗸	143	A	183	Α
24	Α	64	В	104	В	144	В	184	B
25	B	65	C ~~~	105	D V	145	B/	185	B
26	D w	66	B	106	D	146	D	186	c//
27	D/	67	C L	107	A/B	147	A	187	B
28	D 🗸	68	D#	108	Α	148	D ~	√488	D
29	C-/	69	Α	109	D	149	A 🗸	189 	A
30	D profession	70	A	110		150	/		В/
31	B /	71	A -	111	_	151		191	
32	C.	72	B	112	/	152		192	
33	D	73	A -	113	_	153		193	
34	A C	74	A /	114		154		194	
35	D	75 70	В		A warmen	155	~	195	A.
36 37	C V	76	B		A immedia	156		196	
37 38	c/	77 70	A		B -	157		197	
38 39	C.	78 79	A	118	_	158	_	198	_
39 40	D/	79 80	A J	119	D	159	C w	199	
40	<u> </u>	00	~~	120	U /	100		200	U ~